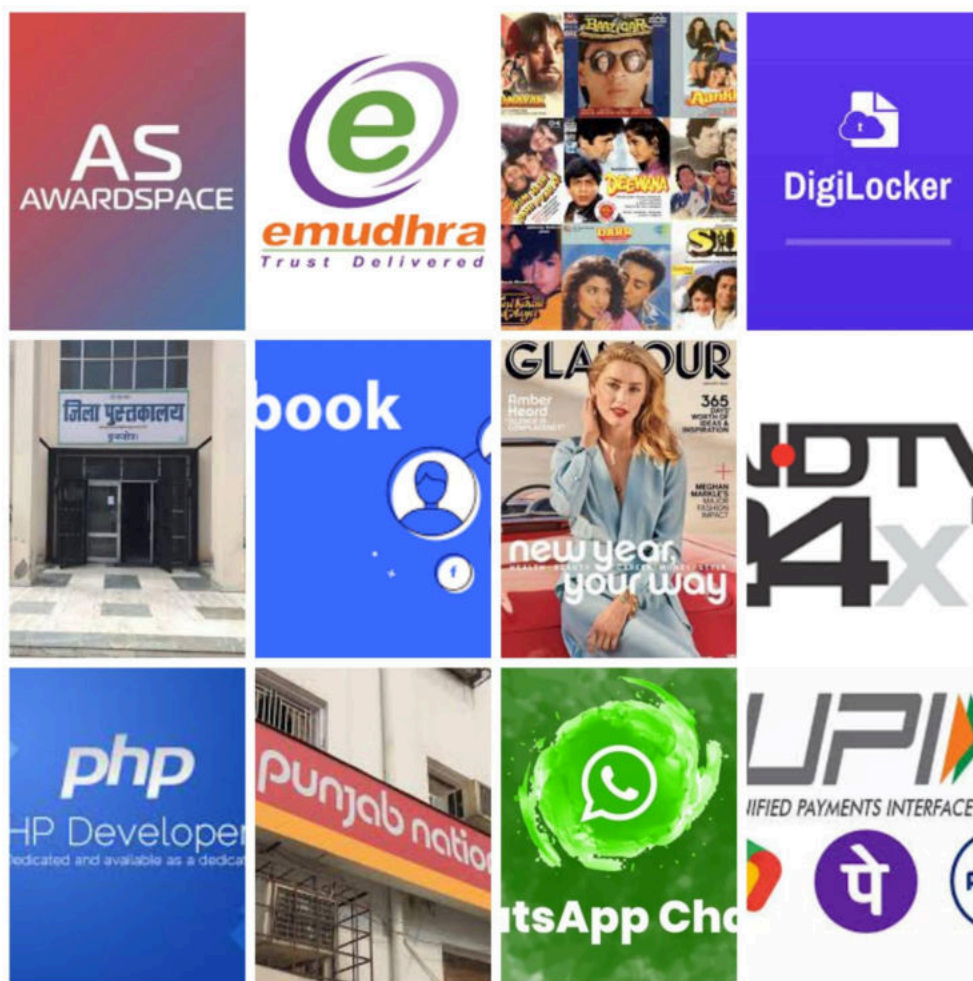


## Apps Phones

(The mobile computing revolution)



- Saurabh Choudhary

A note on my elation through **Apps Phones**

["The ultimate revolution in mobile computing  
technology"]

**\* Dedicated to my fellow smart device users \***

## **Prelude**

The mobile technology has come as the next level of computing development. The mobile operation is based on digital technique which is the foundation of computers. This has brought phone communication close to computer operation. The feature phone was an advancement in the direction of computerised communication, the apps phone has come as a layer above that bringing super facility of apps in phones & specialised apps like social media, e-banking, news, art & conferencing. I have given smartphones name of apps phones as they are basically app phones. The earlier Nokia feature phones of some later years (mid 2000s) also had some apps like camera, web browser, music, sound recording, calendar, clock, dictionary, banking & mail. But the present phones have no limit of advancement & technique & app of any computerisable requirement can be built. The advent started in 2007 & Apple was the first to bring the touchscreen model. The storage & RAM kept expanding with time & the speed of network & processor kept advancing with each generation. The app has become like a normal software or website which is programable in a computer language & customised apps are makeable these days apart from the system apps that come with the phone. The price is also dropping with competition & the designs & models of systems & interface are getting more & more beautiful. The technology started peaking from the mid 2010s & the area is now a subject of AI. I myself own an app & it is a very beautiful app based on my website. App development is now taught in the courses of computer education & children from very early grades are trained in coding procedures. The big features of smartphones in the earlier generation used to be only camera, internet, office & music & such phones used to come in Rs. 7000-8000. But the advanced phones of now have facility of every kind that can be accessed in computer & utilities of all varieties are available now. The UPI revolution is also an era in the social evolution of this century & it has brought other benefits also like transparency & surveillance. The police is able to trace criminals with the help of

high-power cameras & the functionalities of image search are able to facilitate police to catch miscreants caught in CCTV by tracking their images on ID portals. The advantage of mobile app tech are many & I will be discussing on what I opine on these techs in this book.

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## **Chapter 1: The advancement of mobile computing & mobile's reaching close to computing**

The mobile technology is in the lines of the computing technology as it uses the digital format to save & manage data. The communication channels are of two type - Analog & digital, with signal, transmission & communication being all of two types - Analog & digital. The analog system uses signals in electrical wavelengths form to save & transmit data while the digital system is a form of binary status of information which reads data in the form of sequences of two digits '0' & '1' which are unique for every number, character, file & media. The binary system is a number system which represents every number in form of sequence of '0' & '1'. Every character has a code of this sequence & the format is used to represent images, videos & other files by pixel & time consideration. In the binary transmission system the data is saved on the semiconductor by impressing the status 'On' or 'Off' of electrical signals for every unit of data & this is the way the digital data is saved on storage device & communicated through transmission channels. This is how telephone works, this is how radio works & this is how TV works. All these mediums have both these channels of analog & digital communication. The analog medium is the traditional mode & digital channel came with development of computing system. The digital mode of transmission was earlier limited to only the email & internet communications etc. of the transmission channels, but in the 1990s the mobile network came & it used the binary frameout of telephonic data to send & receive messages. The tech was a big revolution as it allowed man to move with phone & access phone at every place wherever. The service was earlier limited to just phone call, SMS & multimedia calls, but the technique kept developing & it reached a stage in the 2000s where it could use the internet facility & medium

to work, operate data & create applications. The feature phones first came up with basic utilities like camera, sound recorder, media players & displayers, basic internet web browsing, email, banking, some specific functionalities like dictionary, translator, calendar, clock, writing editors, atlas, torch, alarm, mathematical calculators & some games. All these applications used interpreter in binary form to operate data & then Apple came up with the touchscreen method of input. Till then Nokia & Motorola were competing with beautiful designs, models & systems. In the first few years, only fundamental apps were built like advanced models of camera, speedy internet network, office packages & music recording & playback apps. With time, internet speed also advanced & so did the app development process with starting of customised apps being developed of every type. The apps were made for specific operating systems & the file extension of setup of apps was of the APK format. The touchscreen method of mobile input was an advancement in the direction of GUI system of computer O/S. Like O/S progressed from command line to GUI, the mobile input furthered from keypad based to touch mode. The mobile application is a software of the mobile platform which is coded & works much like a computer software & is a progression in the direction of mobile coming close to computer only. The process was hard & it took much brain & toiling from the inventors to create this technology. The device was earlier a luxury with its price also being dear & its usage also being common to elite class but with passage of time, it has come into the hands of every common & uncommon person. According to an estimate, there are 95 crore phones in India as of 2014. The instruments now come with beautified designs, attractive models, advanced features & specialised APKs to serve the desires, aspirations & wishes of classes & masses. The cost is coming down with the competition increasing by the time, & the speeds of performance & network are breaking through every period. The 5G speed which is developing in the developers' arenas is being anticipated to bring speeds in GBPS & it will make the network speed real time & ultra-fast. The players all in the mobile network operation field are working in this area & the 5G revolution is expected to hit soon. The technology has scope of further evolutions to many levels & it will keep developing through the time. The apps tech field has benefited all streams of human proliferation including governance, business, art, entertainment, industry & media. All the news channels now have their websites & apps to deliver news instantly & they stream live TV there & provide people forum to connect & interact. The communication channels all of email, internet telephone call, messaging, social sites & cloud are equipped with their platforms of APK & serve the



facilitation of sending of millions of messages everyday. The tech is going on refining with newer forms of media coming up like animations, link & graphics & they're being served by AI very well.

In all, the mobile instrument now has all the softwares that are there in the computer & there are just a few exceptions which are left behind only due to the complexity of calculation & magnitude of computation. The app revolution is yet to stay & evolve further & there are many disciplines of operation potential of advancing human act through this tech. The digital product of human brain is an instrument powerful with multi dimensional techniques & it is expected to elevate every sphere of society & work beyond imaginations.

## **Chapter 2: Begining with iPhone**

Apple Inc. was the first provider to deliver apps phones. It came in September 2007. Till the time when feature phones used to be keypad based for input, it brought touchscreen mode of instruction & insertion & leveled the phone interface with the mouse based method of PC. The first model of the iOS had basic apps which were there even in the feature phone in keypad way, because the apps of the other serviceproviders hadn't been built till then, they would need to know of the system & the working of the system to develop their apps first. They didn't know the iOS at first, & hence the first model which was called the iPhone then & iPhone 1 later, remained with the principal apps. Over the next few years, many O/Ss came, vendors brought their own platforms, like Nokia, Samsung, Android, Windows & Blackberry. But in the course of competition, only Android & iOS survived. Android today has 87% market & serves all the other frames except iPhone.

The extension of the iOS apps setup file is ipa. The IPA model is the most costly in general & its basic piece comes in Rs. 100000. The other models are even more expensive with as many as 15-16 of the models having come so far the highest ones being in millions. The iPhone has private boundaries in many fronts, like the music in it can be downloaded only from the App Store & the networks of bluetooth & USB cable don't work. It is ensured that all inputs there are from the iOS boundary. The intermediate versions that came in between were some economical ones like Rs. 30000 or 40000, but the newer versions again started to be costlier above six digits.

The i brand was the introducer of the smartphone methodology & still persists as one of the competitive rivals. The cover is a

gray steel with symbol apple along with a leaf of the firm printed on it.

iOS & Android are two different technologies with different working mechanisms applied in both & apps of both thus have to be built by different methods. The app development is the only sector of programing in which different languages are used in for different platforms.

My more focus in this book will be on Android apps as it is the more common platform & I use it more often.

### Chapter 3: O/Ss

The O/Ss initially, as I have told earlier, had been provided by many vendors including Nokia, Samsung, Motorola, Blackberry & OnePlus. They all had their own O/Ss but later adopted Android system as it was right in every way & better much & it allowed the possibility of developing common apps for all models. It was realised gradually that if Android OS is adopted, it will be easy to build apps by developing them for just one OS. Mobile computing is safer from one point of view, that it isn't possible to put a URL in the address bar & reach any location, because the interface is robust & secure & doesn't allow a scope for any customised web address. The navigation is only as is allowed by the app & any personal movement can't be attempted. I have used iOS only once when I first purchased it in 2007 & I kept it till 2013 after which I bought Oppo. Ever since I have been using Android. I have used 12 phones till now, eight of which have been smartphones. iPhone was the first brand to provide 256 GB space & it is max still although it is expandable by 128 GB further in all those phones.

Nokia & Motorola were the competitors in the feature phone when Samsung & Micromax came. Nokia developed a series of Lumia & it disappeared from the market gradually as Samsung captured. Samsung is still the leading brand in the market, although my favourite is Redmi. Redmi's design is very beautiful, attractive, artistic & skill oriented. Redmi I have used twice once Redmi Note 5 Pro from 2018 - 2021 & once Redmi 11 Prime 5G currently since 2024. I like Xiaomi's other models also very much & I prefer Redmi & Xiaomi over all other brands presently. If Redmi keeps bringing models like this, I will stick to it although. Redmi has helped me create various artistic media contents & it has display & feel conducive for it very much. It

has an interface system which was MIUI in the Note 5 version & Hyper OS now present on the OS system. MIUI is an MI user interface system which is mounted on top of the OS system in Xiaomi.

I involve in various productions works through my phone like media editing, social network creations, technological studies, banking methods & news / communication etc.

My communications are centered around WhatsApp, email, social media, messengers & clouds.

The artistic compilations I do are based on audio / video / image cutting / mergings / editings & I use them to share on my media networks for special messages regarding my concerns & personal posts. During my playing days, I used to prepare birthday & anniversary cards for my teammates & relatives. After retirement, I did heavy social post preparation for my timelines & scrapwalls & posted these bountiful manufacturings in my groups. Many of my special posts I keep reserved for my website & I share unique contents on all my networks, I don't repeat what I have written at one place at other places like many celebs do.

I have used only Android & iOS OSs since the begining of smartphones. My first phone was gifted to me by my Mom-Dad in 2000 when I had completed around one year of my international career. They thought that I called them from telephone booths from tours, hence they thought I should be given a phone. My first phone was a beautiful Nokia 1100 gray coloured with blue lights in its keypad. The second phone then I purchased in 2002 when I saw my Dad using Samsung 2500. I copied it. It was also a beauty golden lights model. Then I had started thinking that I will also purchase many phones over time & buy good models & enjoy it. Then when I saw ads of charming Motorola phones in 2004, my imaginations went high how good phones can be & will be in coming years. I bought a Moto E for myself & a Moto G for my manager. Moto phones by then had started coming in attractive designs. After taking iPhone in 2007, when news came that smartphone has come, the next first phone I took over was Oppo Reno 2 in 2013, which was a camera special phone. This also I used for five year. Then I found my favourite model Redmi, in 2018. It was the best phone in India at that time. Many new phones started coming after that, but I never feel the need to try every phone, I remain stuck with a good one if I have. This I followed for three years. Then from 2021 to 2024 I purchased one phone every year until I found my next

favourite again last year. These interims were Realme 8 Pro, OnePlus, Metal & glass phone & the Redmi 11 Prime currently. The first big utility I noticed on my smartphones was WhatsApp in 2014. It revolutionised the way I lived in my off days & how important was the phone. Every morning then was waking up with goodmorning messages & sleeping with new posts for tomorrow. The free calling option in Whatsapp also took it another level upper. The calling then shifted to Whatsapp in professional circuits due to saving money. The other networks then came up with their versions of the network apps. I initially the FB, YT etc. through browser, I didn't know that their apps used to be better. Then, when I came to know, I installed all of them. The calling features were later introduced in all apps like Messenger, Gmail etc. The chatting feature was present in these Messenger, gmail etc. since before only. The messenger streams very beautiful graphics & emojis when a call is going on or coming. In the Oppo phone, I still used only basic apps initially, but I installed numerous utility apps eventually as I discovered their presence & fun. I have apps of every type in my phone since & there are as many as 82 in them. I will enlist the apps I have in my smartphone somewhere in this book & show pictures of their logo or screen also. The speech-to-text is what is being considered as the next big thing in apps technology as it will ease out the work, save effort, money & time much & make the computer work much more advanced. It will take the world towards automated working gradually & man won't have to do any work then, only give the basic instructions. This is what is called the Smart World. The Smart form has come in even more platforms now like Smart TV, Smart AC, Smart Watches & Smart Homes. & The Indian government is preparing to develop what are called Smart Cities. It is elating to think what would be the status of the country when these will be developed (Smart Cities). There are as many as hundred of them on the plan. The cities will be developed with model facilities of every kind & they will be the engines or carriers of growth in the country. The smarthomes are still a thing of the far, but the SmartTVs have entered the houses of common users. These TVs have apps & run on digital model. They are connected to internet & they save archives of all programs coming. The apps or programs are downloadable & they archives have provision of keeping ad free & there are non-TV sources also in them like Youtube. I have given the SmartTVs also name of Apps TV as they run on apps. The AC remote has an embedded system which is coded in C, & the Smart AC must also be a development on that only. The smartwatches come with additional facilities like BP measurement, footsteps counting etc. The app has provided every business the scope to enter people's

houses & reach their personal areas. This chapter on O/Ss I close here & move now on to the next lesson of customised app development & instruction of app development in IT education.

#### **Chapter 4: Customised app development & instruction of app development in IT education**

The app development process has now reached every business & they are getting built personalised apps for their trade & every business has an app of its own now. The skills of app development are taught in the educational programs everywhere & the students are able to learn the method of app development on their own. The students need to know a bit of Java in advance for learning mobile computing & the codes of app development are scripted in Android studio in Java. I myself know a few people who are able to code apps of their requirement themselves, like there is a cousin of mine, based in US, who is able to develop apps of his need himself & the developers of the app of my society were the people of our own society, some students of college level, who built the app on their own. They used this app as their project in the syllabus also & got grades for this production. I haven't learnt app development till now, but I am intending to pursue MCA from this year & make a few projects in my app then. I had thought of adding a few projects in my website in 2023, the new ones that I have made, but then I remembered that my website has an app version also now & they both remain in sync with each other, & any change I make in the website thus, has to be implemented in the app also, hence I can't add projects in the website so far. I am thinking of getting provision for this made in the website now, by which I can add some separate projects in the site, which will remain insulated from the app. I have as many as 16 more projects ready since 2022-23 which I want to add in the website, which I will plugin soon when this provision is developed & I am going to get it developed this year only. I have got two special works done in my site last year, those of E-Book panel & individual commentability in E-Books & Projects sections, but I need to get this also provided soon. The



last work I had done myself on my site was uploading the first E-Book in 2018, after which the app came & since then I have to remain dependent on the app developer to do any work there. Children are taught app-coding from lower levels in now & forums like Bujus are providing tuition lessons on app development. We were taught just Logo in primary classes, but the primary students now are taught software & app coding. The only programming languages that we were taught till class X were Basic & Cobol, & software to use Lotus 123. MS-Office hadn't come till that time. In the higher secondary level, I didn't choose Computer Sc. & hence I couldn't be aware of C++ & RDBMS till I reached college. The technologies like ASP, VB & Visual Studio 6.0 were new when I studied them in DOEACC & we were among the first few batches which studied them. The VB 6.0 & ODBC when we had studied in IV semester, all students felt that we can now make professional level projects which will be of use in real-world & they flew in the waves of their imaginations over this. Then when I learnt PHP & web programming, I got contented that I have grasped skill of most important nature & of my type. I am not a brilliant programmer yet, but I am proficient & competitive as a web-model applications developer. When I will have learnt mobile computing in MCA, perhaps then I will have sufficient claim as a software developer. PHP programming comes as a natural style to me as I am a very frequent user of the web technologies & would like to show the whole world the applications that I have made anywhere. The web framework thus fits in my pattern of work. I have already built up my profiles & CV for the freelancer WFH works that I seek to do now, but haven't made them public yet. I had once applied for the project of a matrimony site, I was very confident that I will get it, as it was very easy, of my type & I could have built it very beautifully. But I didn't bag it. I have coded many software applications for some of my own people also, like the Kisan Mandi for a family relative, an Electronic Mart for a friend of a brother, a Patient Management System for a sister in law for her clinic & been involved in the development of our society app UPDA closely. I had studied Comp. Sc. from class I to III when I was in Apeejay School Noida, in which I had studied Logo. Then, in Golden Academy, we didn't have computer subject in classes IV & V. Then in class VI, I learnt flowcharting, in class VII Lotus 123, PC architecture in class VIII, Cobol in IX & Basic in X. We had facility of studying Comp. Sc. in the PCM branch in XI-XII, but I hadn't opted for it. I have got an honorary degree in comp. sc. also (That of M.Sc. (Comp. Sc.) from Gautam Buddha University in 2010). I was conferred this qualification in recognition of my services in the field of sport. Guatam Buddha University is an old university of

India, based in Greater Noida of Ghaziabad, located in the Knowledge Park. It is a government university of the government of India & had been established in 1925. It is a general university with programs of only degree graduation & postgraduation along with fellowship. My university of the University Management System project also, which I had put in my site, I had named it Gautam Buddha University & modeled it on the working of this. I had improvised a system in it over the existing procedure of this university of admission, in which people had to apply for each college individually in whichever courses they wanted to study. I had made this system in my app that students have to apply only for the courses, & they will get the college allotted according to their rank & counseling. Under the honorary degree, I was facilitated the opportunity to pursue any course from the university in future in free, use the library of the university for free, perform practicals in the university of any subject for free & pursue research or fellowship of the doctorate degrees in the university anytime for free. In 2007, when I had read in the newspaper that a new technology of smartphones is coming in which there will be apps & touchmode input, I had got very excited, & I decided that I will buy this phone & when I acquired it, I was so happy that my interest in phones increased all the more & I decided that I will take more interest in mobile phones now & follow the trends & technologies that develop in the market & keep myself equipped with the best phones always. I never used external SD card & kept all my data in one SD card (Internal) so that it is easy to organise. I have many times used my full storage capacity of phones (Of 256 GB) & in PC also. There is so much space now that it is possible to keep in storage all data that is there since the beginning of our time in any device. I keep the harddisks of all the PCs I end up using also in my stack & all my data is there on the cloud across devices with different folders for every device. I keep my data on all platforms organised very well with separate folders for every type of data, like in desktops, laptops, mobiles & even my website. The app of my website, which makes a folder of its in the devices when they install it, creates distinct folders for every section of the system & their data is saved in it whenever downloaded. I had planned all this when I had ordered the creation of the app to my developer team, & told them to process the things in this way, as I had also given them designs of the screen layouts of every screen that could come in the app designed beautifully & with attractive appeal. I had developed all these layouts in HTML as I didn't know how to use Photoshop & I put in that toiling labour to develop all that. The scope of this chapter is over now, & I switch to the next

of Advancement of the apps technology through the 2010s decade & its refinement over the course.

## **Chapter 5: Advancement through the 2010s decade & refinement of the app technology**

Through the 2010s decade, the app technology kept advancing to higher & higher levels & servicers presented their apps of all O/Ss & the trend was earlier only of big vendors like social network & e-commerce providers, but gradually every business started owning its own app. In this chapter I will list the 82 apps I have been keeping in my phone always covering all the areas of functioning & I will give pictures of screens of some of them also. I will also tell about some of my phone settings & my homescreen apps & web shortcuts.

### **\* Apps \***

A > Whatsapp

B > FB

C > Twitter

D > Instagram

E > Saurabh Choudhary

F > UTV

G > Helo

H > Tiktok

I > Flipkart  
J > Chrome  
K > Mobile banking  
L > Music playback  
M > Camera  
N > Zeenews  
O > Bollywood Geetmala  
P > ShareIT  
Q > Hotstar  
R > Ola  
S > Just Dial  
T > Magzter Publications  
U > The History Channel  
V > Politically Correct  
W > Printer  
X > Account Book  
Y > JLJ Institute Of Computer Science  
Z > Google Meet  
A2 > Advanced System Calendar  
B2 > Advanced System Clock  
C2 > Sticker Maker  
D2 > GIF Maker  
E2 > Audio, Video Editor  
F2 > Minimovie  
G2 > Mobile synthesiser  
H2 > Aa Script Converter

I2 > CPress File Compressor  
J2 > AConvert Documents Convertor  
K2 > Grasim  
L2 > Rediff Books  
M2 > Blogspot  
N2 > HBO Movies  
O2 > Collins Cobuild Dictionary  
P2 > Pagemaker  
Q2 > District Library  
R2 > Photoshop  
S2 > Google Maps  
T2 > Radio  
U2 > Sing  
V2 > MS-Paint  
W2 > Core FTP  
X2 > MS-Office  
Y2 > Trivago  
Z2 > Big Bazaar  
A3 > DSC  
B3 > Youtube  
C3 > Sound To Text Converter  
D3 > Reminder  
E3 > MI Notes  
F3 > My Gate  
G3 > Awardspace  
H3 > PayTM

I3 > Digital Locker  
J3 > Short Stories Of Premchand  
K3 > MMT  
L3 > Google Translate  
M3 > UPCA  
N3 > Grok Beta AI (Of Twitter)  
O3 > Teamviewer  
P3 > Income-Tax Return  
Q3 > Jio Internet Network  
R3 > UPDA Society  
S3 > WAGs  
T3 > Wrox Publication  
U3 > Samsung Sm. T.V. Input  
V3 > Pancham Radio  
W3 > GPS Tracker  
X3 > Jio Cinema  
Y3 > Cricket Today  
Z3 > Glamour Edit  
A4 > Redmi 11 Prime 5G  
B4 > The Bramha Of Style  
C4 > PHP Programers  
D4 > BCCI Official App

**"The settings of my phone I am inking here"**

Brand: Redmi 11 Prime 5G  
Phone type: Mobile  
Phone class: Apps phone  
Manufacturer: Xiaomi  
Make: Chinese  
Year of merchandise: 2023  
Price: Rs. 23000  
Storage: 1 TB  
RAM: 10 GB  
O/S: Android  
Version: 14  
Input type: Touch  
SD cards: 1, Internal  
Screen lock: Not Set  
Security scans & optimisations: Constant, automatic & immediate  
SIM slots: 1  
Homescreen layout: Vertical  
No.: +91 9818845498  
Operator: Airtel 4G  
Base station: Delhi / NCR  
Internet network level supported upto: 5G  
Background: Dronacharya Sandeep Sir  
Mobile tune: Jhuk gai aankhein teri raahon pe  
Receiver tone: Kiski sadaayein humko bulaayein  
Browser settings: Save data, autofill, remember history, prompt suggestions



Browser sessions: Continue from where left

User accounts: Always logged in

Sleep: After 1 minute of inactivity

### **"Homescreen Apps"**

Whatsapp

Facebook

Twitter

Instagram

Youtube

PNB banking

Flipkart

MI notes

UC browser

NDTV 24 \* 7

Bollywood Geetmala

Saurabh Choudhary

### **'Web Browser Shortcuts'**

Saurabh Choudhary

Localhost

WhatsApp Web

Facebook  
Twitter  
Instagram  
Youtube  
Hostpanel  
MI Notes  
Passwords  
Zeeneews  
ICC-Cricket  
DSC  
Telegram  
Threads  
JLJ  
PNB  
PayTM  
Bollywood Geetmala  
Skoda

These apps I will elaborate on now with details of their working & what I do on them.

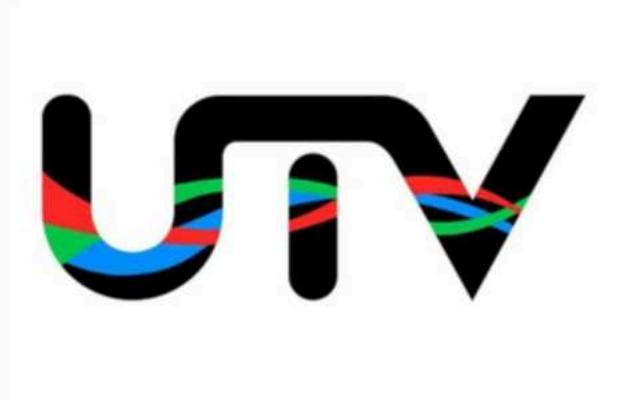
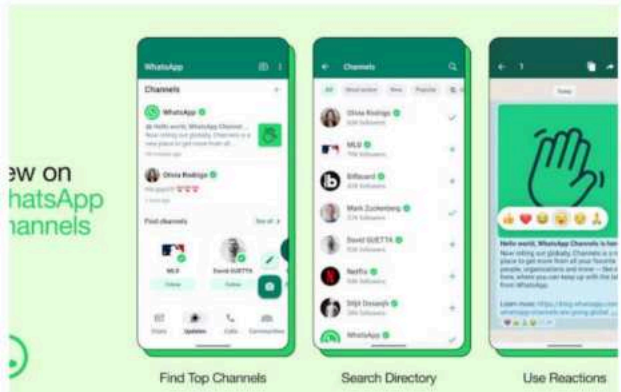
WhatsApp, FB, Twitter, Instagram & Youtube are the basic five social apps which had been existing since the beginning of social media evolution. These five networks everyone keeps in their phones, & so did I, creating my notifications every morning I woke up (During these years). My own app Saurabh Choudhary is also one of my favourites as people write very good things to me on that. Then there are TV & film sources like Hotstar, UTV & HBO. Hotstar enables to

watch TV on phone (Or computer) & there is an advanced version of it now (In the form of Jiocinema) which streams cricket matches as well as TV programs. The app of mobile banking is there, along with which there are other medias of E-Commerce, like Flipkart, Big Bazaar, Justdial, Trivago, MMT, Rediffbooks & PayTM. The e-commerce revolution has brought much ease in money handling, scope of avoidance of cash & transparency in financial transactions. Then there are news sources like Zeenews of Yahoo which keep updated with the latest report. Then, there are some very important apps, like the My Gate for the society security, ITR for the income-tax return & our own society app. BCCI also has an app for us players for our works management & keeping us updated with our requirement news. I have some special apps like Awardspace for the hostpanel control, Samsung Sm. TV for operating the TV & PHP Programers for a learning network of PHP. Redmi has an app of the 11 Prime model which convenient the managing of its device. The Bramha Of Style is an app of Pancham Da which I had got developed by proposing to Vishal Dadlani to get this app of Pancham Da's songs made. I thought such an app should have been developed & he was the right person to do it. 3-4 magazines I subscribe from the Magzter Publications journal which are Glamour Edit, Times Today, Cricket Today & Kadambini. There are some more special purpose apps like GPS tracker, Wrox Publication for tutorial on PHP & Web designing & Short Stories Of Premchand, for the collection of his short stories. There are some government-provided services apps like Digilocker & DSC. I have some subscriptions from various cricket related sources like UPCA, Golden Academy & Ghaziabad Sports Complex. Then the utility apps like MI Notes, Radio, MS-Office & District Library came. I have extensive usage utility apps also like language translator, script convertor, file compressor & documents convertor. There are some communication channels like Share IT, google meet, WiFi app & Teamviewer. Some more social apps I use like the Helo, Tiktok, Telegram & Threads, & then the computation apps like Pagemaker, Maps, Calendar & Clock. All apps have some special functions, but it isn't possible to describe all here. I end the discussion of the apps here & will throw light only on the Homescreen apps & my device settings.

My phone has space for icons of twelve apps on the homescreen. Five of these I keep of the primary five social apps. Then the e-commerce apps of banking, PayTM & Flipkart. Then I keep three apps of utility because I use them much those of Notes, news & browser. & One my own app.

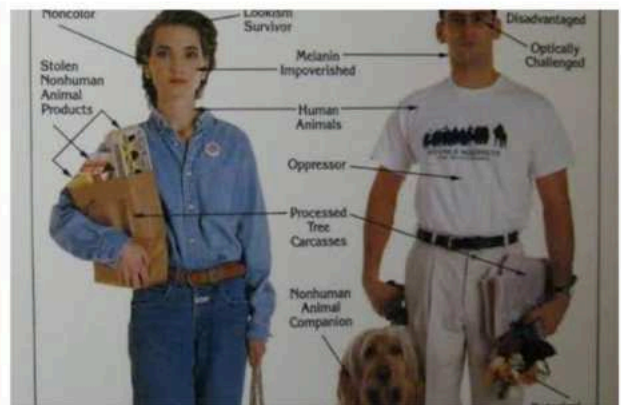
My settings I will describe in connection to my current phone Redmi 11 Prime 5G. It is a mobile phone of apps class & is a Xiaomi brand of Chinese make. I bought it in 2023. Its price is Rs. 23000. The storage is 1 TB, RAM 10 GB, O/S Android version 14. & The input type is touch & SD cards only one internal. The screen lock I haven't set, & the security scans I keep instant, automatic & constant. The sim slot is just one & the homescreen layout I have kept vertical. The operator of my mobile is Airtel & the base station Delhi / NCR. The internet network supported upto is 5G & the wallpaper I have set of Sandeep Sir's Dronacharya award. The mobile tune I have set "**Jhuk gai aankhein teri raahon pe**" & the receiver tone "**Kiski sadaayein humko bulaayein**". The browser settings I have kept of Save data, Remember history, Prompt suggestions & Autofill. The Browser sessions I keep Continue from where left, User accounts Always logged in & the Sleep after one minute of inactivity.

The logos or screens of some of these apps I will post here, which are much beautiful



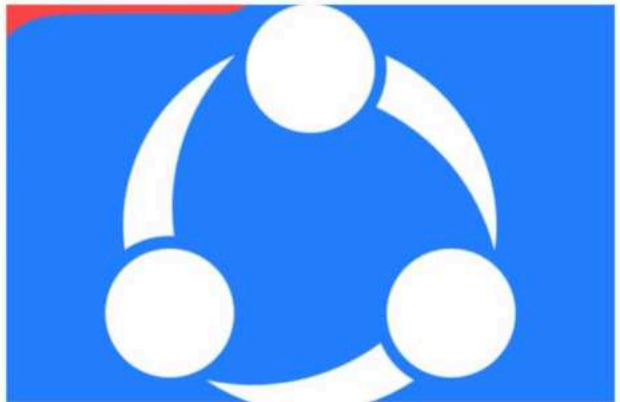


Justdial





NDTV  
24x7



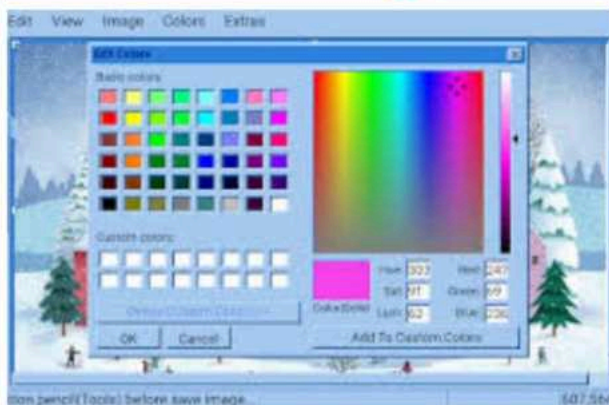
Microsoft   
Office

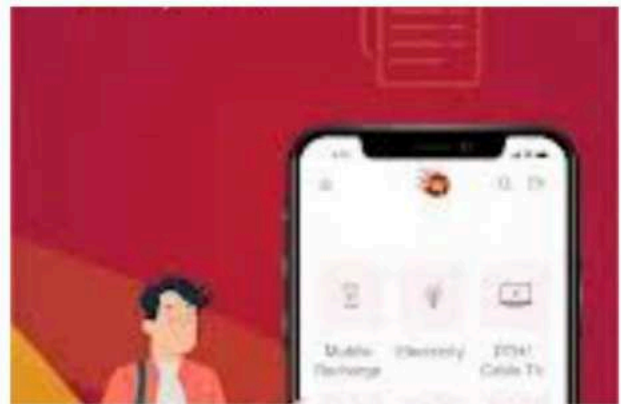


# Class 3 Certificate









I hope the logos of the apps people will find very beautiful & appreciate. Chapter no. 6.

## Chapter 6: My own app

This chapter also I think people will find very special as it is related to my personal app. The app **Saurabh Choudhary** which is available on Android & iOS & has icon of GOAT team award, is my website-based app. I had got it constructed in 2018. I gave the team of developers layouts of my screens as I wanted, & they built it in two months in October & November from my house. I saw whole how these apps were built & witnessed the process of APK & IPA developments. & Enjoyed it. They had planned my app very well & had shown my the blueprint of the output in advance. The cricket season was off at that time & I had space between the TCT & BGT. I had told them that I will be going for the BGT to Australia in December & they will have to publish the app in a few days when it is ready. My app is completely an app version of my website & it is completely in sync with the website. Any change made or command given from the website or the app reflects in both together. I had got this app made only because I thought it will give the people a hand-ready form of the application & will sound notification. & The idea of it had come from Virat's app which I had seen in 2018. He had launched this app in 2018 in which he used to post his interviews. I struck this idea from there that I can get an app made based on my website also. The idea of my site I had planned myself, that of the app from Virat's app & that of my autobiography E-Book from Sachin's book. The model of app I had kept in FB pattern in which there are 2 posts per page & five tabs at the top of the page & a header section at the topmost place. I had kept five tabs at the bottom also & a copyright description at the bottomline. There was a search box at the top right along with a login button to its right. This button people had to click to login to see further options & the more tab in the upper menu took to further common alternatives as also the bio tab which presented a

queue of few static pages. My app had 2 more versions - Those of Admin & Manager for my admin works & manager's roles. My admin version had all the features of the frontend of the user app along with the admin panel & both these apps had only Android version. Manager's app had only the functionalities of the manager. I hadn't got built the iOS versions of my Admin & Manager apps as I believed I would like to use only Android system always. My app is a heavy data app with bulk posts as I post heavily often & especially because the Scrapwall gets posts in thousands per day. The Scrapwall remains so busy that I amn't able to read all messages & even the One to one messages. Feedback section I make effort to keep track of all posts always as it is important to keep view of the people's issues & abuse reports. I want to make sure my users don't face any issues ever & aren't abused in the system. In case of any misconducts found anywhere I ensure the offender is suspended forever. My admin & manager panel security I have kept higher than user & have barred any IP address trying to breach into the admin from logging on the site only forever. All these things I had planned very meticulously when drafting the site. My site / app has an artistic feel as it shows my interest in social & public things. I have set up various post sections in which I can post data of numerous type & people can interact with them. People have & do post very good comments for me in these sections & I try my best to ensure that I keep presenting good stuff to them from time to time. The only regret I have is that I can't reply to all messages practicaly. Birthday messages I send to some people who I recognise from some messages as good users & have developed a relationship with them. My app has an APK size of 30 MB & its data overall is above 42 GB.

Once I complete my computer application postgraduation, I hope I will be able to update my apps well myself. Two screenshots from my app I will share here to show what kind of setup I have kept in them.

Saurabh Choudhary

Search

Login

Home

Bio

Messages

Notifications

More

Newsfeed

Diary Post > Fort Ultimate Conquered

India Clinch Away BGT For The 2nd Consecutive Time

29 July 2021 11:30 pm

Crinformation > Leader Of The WTC Also

	POINTS	POINTS	MATCHES	WINS	LOSSES	DRAWN	SERIES	POINTS PER MATCH
INDIA	16.00	16	1	0	1	0	2	16.00
NEW ZEALAND	12.00	12	1	0	0	1	-	12.00
ENGLAND	8.00	8	0	0	1	1	2	8.00
PAKISTAN	0.00	0	0	1	0	0	-	0.00

Reach The Top In The Points Table Also

09 August 2021 11:45 pm

Posts

Uploads

Scrapwall

E. Books

Projects

The database of my app I have named saurabh\_choudhary & it has 400 tables in it 67 of which are of the main module & 333 of the projects. I have some beautiful sections in my app like those of Posts, Uploads, Messages, E-Books & Projects in addition to the feeds page. The posts have all posts made by me in the system since the beginning, uploads have all media uploads & the E-Books the e-books I load. The feeds are shown with title at top, images in between, description under it & date at the bottom. The Feeds segment is the homepage & the launch animation comes only on the first launch of a day. After that it opens instantly. My admin & manager apps I've kept without launch animation & their icons are my Dhyanchand award & my portrait respectively.

The folder of my app is created in the phone on installation with the name Saurabh Choudhary. The subfolders thereupon are created for each subsection as Diary, Crinformations, Idols, Biggest glories, Photos, Other uploads, Scrapwall, One to one messages with admin, Birthday messages, Quiz, Feedback, Commercial acts, Fav cars, Fav apps, Artists & E-Books.

The average data size for a user is 4 GB. The option of uploading photos & videos through camera & sound files through sound recorder also I have attached where user is at such an end. The user I have provided facility to keep notifications on or off under four categories apart from some compulsory permanent notifications. The notifications are on by default & on for every category.

The files I add are downloaded for every section automatically on coming except for Scrapwall which downloads on saving. The permissions of microphone, camera, location & storage are prompted to be set on at the time of installation or on occurrence of first requirement, in case of denial, the services are barred.

The cost of development of my app took Rs. 2000000 & I had got it done from TCS. Its branch of Noida. The Admin & Manager versions of my app are searchable in the Playstore while on being signed in with my & my manager's Google id there. The launch animation of the app is a six-second graphic sequence between a bowler & batsman & an intro message is displayed upon the first opening after installation with my digital sign under it. The notification forms are sound, badge icon & floating notification along with the notification shade. My app has registration by email & the mobile no. also needs to be unique. There is a mobile no.

required due to which user needs to have mobile compulsively. This could have discouraged some users of my website in the beginning as many poor people didn't have mobiles in its early years. The site when opened in the browser in mobile in smartphones prompts to open it in app form & the people registering with feature phones might also have a difficulty as the mobile OTP comes in link form & if the phone doesn't have a browser, it could required to hit that link elsewhere. The medias all in my app are of the best quality & there is an inbuilt extension for browser, the links open inside the app only. The site has a mobile version also & it has internal procedures for faster browsing & lower data consumption.

The backup & sync method of my app takes backup of the app also & creates a separate copy for every change made. The Admin & Manager versions I have kept login-free as they are downloadable only from our Google ids.

Overall, my app has been developed very beautifully & I am very satisfied with the work it has done for me.     Next.



## **Chapter 7: Most common app types - Social media, e-commerce, news, music & communication**

The classes of apps are many, but the most common which serve daily pursuits are social media, e-commerce, news, music & communications. Besides, some other common classes may be utility & services. The apps I have more or less described earlier, but in this chapter I will point to some of their features based on the classification type.

Like, the social apps, there are around 13-14. WhatsApp, Facebook, Twitter, Instagram, Youtube, Messenger, WhatsApp Channels, Facebook Groups, General Chat, Helo, Tiktok, Telegram & Threads. Even Smule has features of social networking. My own app also I will consider features of social networking as people are able to interact in Scrapwall there. These apps allow people to connect & interact in many ways. Most models have system of timeline & subscription. In Facebook there is a system of friends also. Messenger has facility of personal chatting. Telegram & Whatsapp are private messengers. & WhatsApp Channels are a format of public-private combined form. People are able to comment on others' posts & they receive notifications for their followings' posts. E-Commerce is an important class of service as it makes money management & making transactions very easy. It is safe also. Social media has brought art, science & commerce together. There are apps with particular types of commercial services - Like mobile banking, online shopping, services booking, hotel booking, flights booking, cabs booking & UPI. Mobile banking allows to transfer money to any account. Online shopping helps to order any products from webstore & receive it at address. Services booking enable booking of service hirings. Hotel & flight bookers allow to search hotels & flights at any location & book them. Cabs

apps work on location. & UPI has made payment very easy & secure. News apps are portals of newspapers, TV channels, magazines & other newshouses. Journalism, news reporting & mass media have come in the hands of people with every breaking news being notified instantly by sound. The important news are although circulated on the social networks also. There is a complete marketing & PR team of organisations working to boost their business through these apps. Music is an important department for entertainment. Music isn't a light thing, it has soul, substance & shade. There are many kinds of musical apps like, music playback, streaming & downloading apps, Youtube portal, audio editing, karaoke recording, sound recording, radio & mobile synthesiser. All these serve specific services & provide to create audio media of different types. I earlier used to prefer music playback apps for listening to music as I preferred music in audio form over video, but now I have settled on Youtube for listening to music as it is a one place where any song can be found & it is easy to organise songs in it by making playlists, saving in Liked Videos & keeping track of songs by watch history & search history. Communication is available there in many forms like phone call, internet call, video call, email, SMS, messages, live broadcast, MMS, social media posts, comments & group chats.

Although I have planned to write in this chapter only of these five basic types of apps, but I will write eventually also about some utility apps & services. As they are also essential to some extent. Utilities are some tools which serve some purpose & function & provide some facility to perform particular types of task. The services again I will say only about the amenity facilities like electrician, plumber, doctor, movie tickets, hotel, restaurant, taking civic connections for house, domestic works & maids etc. All these apps provide these services from one portal where their booking is facilitated & their contact nos. are also given which people can contact them personally & meet. Locations has come up to be a specialised service sector, on which many services are based & they help people to travel by directions & search maps. The calling & meeting technologies have enabled to do conferencing & official meetings on apps. The environment in these apps have been made very equipped for official meetings. & The location service in phones has enabled very hightech apps like cabs & directions. The Google map has snapped picture of the entire earth by its own satellite from very close & it has captured every point & road in the places. The map now allows people to get routes to desired places & follow them to reach their destinations conveniently. The most important app tech in

security & police force departments has come of CCTV camera, by which criminals are caught in the cameras of the police & forces very easily & traced by image search of their images in ID portals. These apps have improved the human life much & helped in works in many departments much.

## **Chapter 8: New layer of AI**

The area of AI was being worked upon in certain fields by many operators since long time, & the result has started coming. Many players have come up with certain AI facilities of theirs like Chat GPT, Meta AI, Gemini & Twitter Grok. They all have set up their forums where they provide some functions like image creations, musical covers, imagination, text summarisation & coding. They produce good CVs on the basis of information supplied by us, deliver videos of simulations like space travel, car racing & answer any questions asked by us. They can perform any task we imagine or order. I have experienced some solutions to some problems in my coding myself, like, I had once asked AI to check up whether in 104 photos provided by me there are any duplicates. It did this in one second. I have seen it doing some autodraw jobs also. It once wrote for me a poem I asked to dedicated for my father for his job joining anniversary. There are AI bots or assistants in other serviceproviders also like web registrars or customer cares of companies which first listen to the problem put up by any customer & solve it themselves at their level if they can & hand over it to personnel manforce only if it is needed. The AI has easened many works & does jobs doable by computation automatically.

Music covers of songs which haven't been sung by particular singers have come. How it would have been if they were sung by them. It is visualised by AI in that & developed. It delivers with much accuracy. A flood of such covers had come sometime back. Where AI is a big asset, it can be a threat in many things also. Like, the music cover will be illegal. AI will reduce human requirement in computable works & solve all such problems on its own. The platforms which are providing it are there in the form of their websites, apps or social

app forums. The Meta AI is a production of the Meta, Gemini of Google & Grok of Twitter.

The AI is trained in such way that it learns from its experiences & understands language. It keeps going on learning from what people do with us & comprehends the human languages of understanding.

## **Chapter 9: The biggest advantage of instant notifications & sound notification**

The biggest advantage that smartphones have brought is of instant sound notification. Whenever there is any development or update in an app, the system notifies of it through the sound beep. This allows us to know even when our phone is in sleep that some notification has come. The setting allows to even set setting that the light will wake in the phone & notification show on the lock screen, by which we will be able to see the exact notification which is there even from far even if the phone isn't in our hands or not near us. This helps to keep updated with the works we have subscribed & stay connected with all our requirements that can be by that. In the PC, changes are reflected in apps by badge icons on the corners of tabs & they are quick, instant, but sound isn't there. There is desktop notification, but it won't be working if the system isn't waking. But in phones, it alerts even in sleep. This makes the smartphone a tool of much utility & solves much of our problems in time. The systems like My gate have served so much purpose, that it can't even be measured how much it has helped our lives & eased & bettered our functioning. The sounds of notifications can be set differently in different apps also, by which sources can be known of the notifications coming by sound also. The calling tones can be set to musical tunes & they can be set to different songs for different chats also.

The other alternative of sound notification is vibration. To which the alert can be set if we are at such places where we wouldn't like to disturb people with our ringtone. We can then set the alert way to vibration mode. In that the phone vibrates for a moment when it is in our pocket, by which we come to know that some notification has come. The phone has a mode of pocket mode also, by setting to

which, the phone doesn't get waked up on its own due to some possible movements in the pocket & we aren't disturbed by unattended call switched on. It senses by its touch sensors that the phone is in pocket & it shouldn't be switched on until it's there.

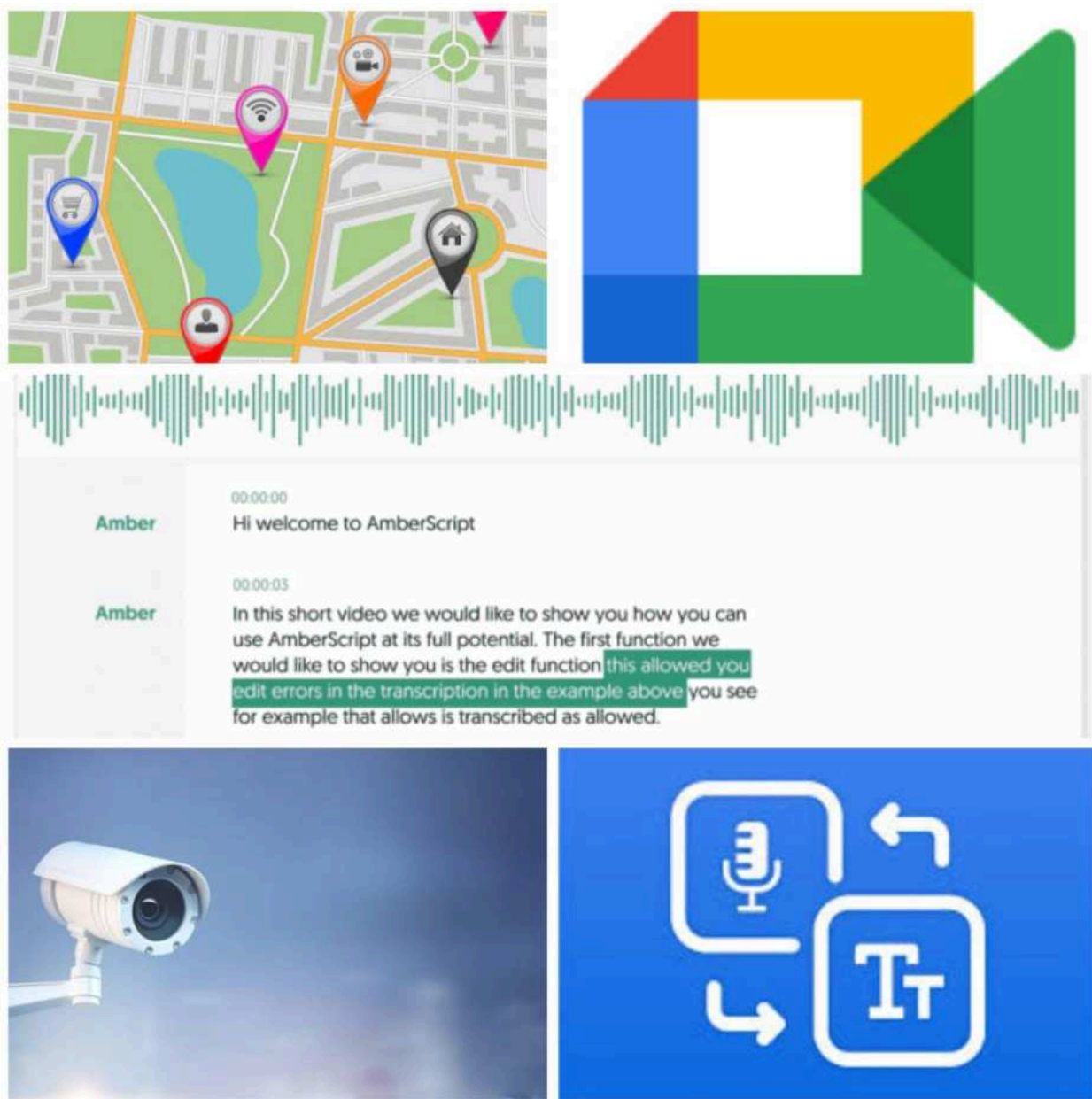
## **Chapter 10: Other advanced technologies like location, meeting, sound-to-text, cabs & CCTV**

The apps after producing high-end services & facilities in the mid-2010s entered phase of yet another layer of higher technology with techniques like location, meeting, sound-to-text conversion, cabs & CCTV cameras & clouds. All these have taken the work to another level of convenience. The location tech came in the mid 2010s when Google took photo of the entire earth with its close cameras developing a map of the earth with every point & each road displayed clearly. It is imaginable how hard & hightech this job must have been. It needed a completely own satellite of its to do this. It developed a map of the world with this which can be seen to the highest resolution & shown paths or routes of directions from particular place to place & guide people in moving to unknown destinations. The location function helps in pinning the place in some applications. Like courier deliveries, they trace your address with map. The conferencing application was there earlier also like Skype etc., but the current set of apps provided completely equipped office environments with full facilities like office. They are very advanced & serve the needs of the most ultranew setups. A new technique in the progression now is sound-to-text conversion. It is working to write the speeches pronounced to it. The sounds of pronouncations of words are fed in it & it also understands the pronouncations being input to it. It scripts them by this. This way, work is likely to be much easier when it comes. People won't have to write anything, they will have to only speak their jobs & the app will write it for them. It will save enormous amount of time, money & effort thus by easing the involvement of toil & lessening the number of manforce involved in the work. The written texts can be edited as per need also if there are mistakes & the program will gradually



learn more & improve only with experience. This application can be applied in code work also & complicated terms can also be made to write by pronunciation & recording those terms into it. The recorded words can be saved in different accents also. The location service & app helped develop into another big facility of cabs which worked based on it. The cab works by setting direction of the source & destination addresses of the user & takes the ride through that route. The cabs in big cities are spread all over & the one free & closest to the customer calling it arrives at his doorstep to take the ride. The cabs are economical & their prices can be compared on different apps & chosen best. The last advanced tech I will talk about is the CCTV cameras which are installed all around at public places & private campuses & which do surveillance of the intruders entering in unauthorisedly. The CCTV cameras are connected with computers on whose monitors their recordings can be seen & they are saved continuously on cloud so that they are accessible elsewhere also. This helps much in the working of police & security forces, & they trace the criminals recorded in the cameras by tracking them & chasing them. The cameras also capture the vehicle numbers of the vehicles violating traffic rules & breaking laws. The offenders are thus easy to catch down by the military forces.

This completes this chapter of this book & the book also. I will end up with a collage of these five apps of this chapter & a message from me finishing up on the **"Apps Phones"** book.



Smart Phones Make Us Smart Persons  
Salutes To Smart Phones