

BUSINESS CONSULTANCY BASED ON THE BARTER SYSTEM

An Engineering Project in Community Service

Phase–II Report

Submitted by

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*in partial fulfillment of the requirements for the degree of
Bachelor of Engineering and Technology*



VIT Bhopal University

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Bonafide Certificate

Certified that this project report titled “**Business Consultancy**” is the Bonafide work of 19BCE10036 Shikhar Pandey, 19BCE10057, Vedant Agrawal, 19BCY10066 Shreyash Singh, 19BCY10103, Patnala Sai Kiran, 19BCY10140 Shivam Agrawal, 19BCY10177, Krishna Agrawal, 19BME10034 Mayank Nath Tiwary and 19MIM10057 Naman Arora who carried out the project work under my supervision.

This project report (Phase II) is submitted for the Project Viva-Voce examination held on 19th April 2022.

A handwritten signature in purple ink, appearing to read 'Praveen Lalwani', with a long horizontal line extending to the right.

Dr. Praveen Lalwani
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First and foremost, I would like to thank the Lord Almighty for His presence and immense blessings throughout the project work.

I wish to express my heartfelt gratitude to Dr. Mayuri, Head of the Department, School of AI & ML division for much of his valuable support and encouragement in carrying out this work.

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Last, but not least, I am deeply indebted to my parents who have been the greatest support while I worked day and night on the project to make it a success.

ABSTRACT

This report presents an android application called Barter app, in which the user can exchange their products with some other user's products without the involvement of currencies. The objective of the app is that the user gets rid of the product he/she doesn't want and gets the product he/she wants in exchange for that product. The report provides a brief history of bartering that has been going on today too, what techniques we have used to make the app, and why it is so usable. How this android app can help society and why is it required are also included here.

Each group member contributed equally to building the app. We divided the whole project into 2 parts. The first part was creating all the UIs that are required in the app and the second part was connecting the UIs and integrating the Database with it.

Besides doing some work in the project, I(Naman Arora 19MIM10057) was responsible for leading the team throughout the project. I was the leader of the team.

During the first part, there were 8 UIs in total and since there were 8 members in our team, each person was responsible for one UI. I(Naman Arora 19MIM10057) was responsible for two UIs namely "Search_result.xml" and "About_page.xml". We have used xml for creating the UIs in android studio.

During the second part, we had a database containing 3 tables in it. We divided ourselves among 3 teams. Each team was responsible for creating one table each. Each time had to create the table, insert data into it, read the data from the table and display the data in the corresponding UI. My team was 19MIM10057(Naman Arora), 19BCE10036(Shikhar Pandey), and 19BME10034(Mayank Nath Tiwary) and we were responsible for creating the database that contains information about the offers that one user sends to the user who has posted the ad for that user.

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INTRODUCTION

For this project, our group would like to implement an android application. We try to implement a simple barter system based on the basic design. The objective of the app is to revive the barter system as its popularity is decreasing as the days are passing by.

In the fast-growing field of software engineering and development and even more rapidly growing sector of application development the future is hard to predict. We are working with this application and as a part of our degree, we choose this type of work for doing better.

1.1 What is Barter System?

As a kid we have all exchanged chocolates with our friends, where we gave them one of ours to take one of theirs, and thus knowingly or unknowingly have bartered. Barter system is trading something from someone where both individual or companies involved exchange things with each other where no money is involved.

So, the question arises, what exactly is barter system? It is an old method to exchange things or services without involving any money. The history of barter system dates back to Mesopotamia tribes dating back to almost 6000 BC, which was later adopted by Phoenicians. Phoenicians were famous for using this method across oceans in various cities. Goods started being traded for food, water, tea, weapons and many other things. Salt was another popular thing; it became so famous that there was a time it was used to pay for Roman soldier salaries. Middle Ages saw Europeans trading crafts and fur across the globe in exchange for silks and perfumes. Money only made bartering more organised.

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Barter System

1.2 Characteristics of Barter System

The assemble is alternatively modest and has the subsequent characteristics:

- **Immediate reciprocal alternate:** Bartering entails instant alternate of goods, wherein the alternate is reciprocal. This approach that the exchange is negotiated in a manner wherein every celebration receives what it dreams for in a good quantity to what it gives in alternate.
- **Double accident of wants:** It calls for each event to need what the opposite celebration has to offer. If any celebration isn't inquisitive about the opposite celebration's offerings, the alternate doesn't take place.
- **Eliminates the use for money:** Barter is a direct alternate. It entails instant swapping of products and chattels and not using a medium of trade involved. Limited circle of alternate: People do now no longer need items of compromised quality. Therefore, bartering takes place inside a circle of dependent on people. This acts as a restraint to the loose go with the drift of alternate throughout groups and geographical locations.

- **No recognition of financial growth:** A barter financial system is centered on enjoyable the vital desires of humans, now no longer on financial growth. As a consequence, the tempo of modernization stagnates.

1.3 Pros and cons of Barter

Just like any other monetary system, the Barter system has its own set of pros and cons. Some of them are:

Pros:

- **Simplicity:** As green as the existing financial gadget is, the problematic complexities inherent can't be denied. On the contrary, the barter gadget is stripped of all menace. It entails an immediate delivery and taking of the commodities.
- **No Real Concentration of Power:** There is a restriction past which commodities can't be saved and consequently the intense attention of wealth is a bleak possibility.
- **No Overexploitation of Natural Resources:** In a barter ecosystem, human beings tend to be a jack of all trades. People on their personal attempt to produce or manufacture items of utility. The quantum of manufacturing is enough, now no longer plentiful. Thus, degradation and grasping exploitation of herbal assets continue to be fairly contained.

Cons:

- **Double Coincidence of wants:** Under the barter system, a double twist of fate of wishes is a crucial prerequisite for an alternate to occur. The double twist of fate refers back to the mapping of people's wishes 1:1.
For example, A man or woman wishes material and is inclined to alternate his wheat for it. Now he should locate a person who now no longer simplest goals wheat however additionally has material to alternate for it. A person can't come upon such someone whenever a want arises. Oftentimes, many middleman transactions should be undertaken to finally be capable of reaping the commodity favored within the first place.
- **Lack of Common Measure of Value:** Even if humans with congruent wishes meet every other, any other quandary is around the percentage wherein one top

needs to be exchanged for any other. There is a void on the subject of a not unusual place degree of the fee. The hassle is constant in a way missing a whole lot of concepts to it.

A genuine fee can't be assigned to the best in a barter system. The fees of change for it'll be as many because of the number of sorts and traits of products that it could be traded for.

- **Difficulty In Deferring Payments:** Deferred bills are debt responsibilities to be repaid withinside the destiny. However, in a barter economy, the promise of a destiny compensation can result in conflicts of many kinds. These conflicts as defined via way of means of an economist, Chandler can also additionally include:
 - Disputes over the best of products or offerings to be repaid in.
 - Controversy over modifications withinside the cost of the commodity over a duration of time.
 - Inability to agree upon the character of products for use in pleasant the obligation.
- **The invisibility of Goods:** An incapacity to peg an alternate price to items of indivisible nature takes place to be an essential hindrance of barter trade. Suppose, the agreed-upon cost of 1 ox is sheep. Now, if someone needs 1 sheep, then he has to surrender 1/2 of his sheep an ox to have the ability you obtain one sheep. This is impossible. The most effective course out of its miles if the character has the same opinion to negotiate the entire of an ox for an unmarried sheep. This results in losses for the birthday celebration by sacrificing an ox. This trouble is accomplished away with now. The gift financial surroundings assign a cost to all items in phrases of foreign money with such a lot of denominations.

1.4 Motivation for the work

In this ever-growing modern world, a lot of people want their hands on either the latest trend in clothing or newest smartphones out there. This is not limited to just these things, the list goes on, leaving a lot of potentially good stuff just lying in some corner of the house. This is where barter system can help, this will help in reducing e-waste as well as help saving a lot of money for both parties involved, which otherwise would have been 'misused'.

Using barter system can also help in reducing a ton of carbon footprint, which again is very good, when buying something new we increase our carbon footprint, when we use barter system a lot of this can be saved, because when you get it second-hand it still counts as economy for circulating carbon footprint economy and doesn't add anything more to it.

Every small thing which we have discarded as no longer useful still adds up to the space we already have in our homes, barter system can help reduce that unwanted stuff that is still good, and get you something that might actually be useful to you or your household environment, maybe you don't have a good chair but have a table you don't use anymore, put it up for barter, when bartered this will save you a lot of space as well as give you something that you can actually use.

The main motivation of this project is to reduce more waste and help people save money in these difficult times where people can barter things but can't buy it, because they don't have the money for it but do have the goods that they can use to exchange goods.

1.5 Objective of the work

Some of the objectives that we are aiming to achieve are:

- **Reducing Waste:** Barter system can help a lot in reducing waste as it will let people put up stuff that they don't use anymore and get stuff that they can actually use, helping both barterers get stuff which will not go to waste anymore.
- **Reduce E-waste:** Not everyone requires brand new technology but those who do can barter their old stuff for something else they can use in their household, thus reducing E-Waste and help people actually get their hand on stuff which will be useful to them instead of catching rust in some corner, and reduce E-Waste.
- **Reduce Carbon Footprint:** Carbon footprint is increasing exponentially which is very bad for the world as a whole, and circulating stuff that has already been used, keep carbon footprint in check, not adding anything more to it and help keeping what is already in circulation not go to waste.
- **Save Money:** You have an extra chair and a couple hundred bucks, you want a good water bottle, instead of buying more plastic and thus misusing your

money, you can put your chair up for barter, in exchange for a good bottle, this will save you money, and get you the stuff you actually want, without using a single buck.

- **House Organisation:** During festive like Diwali, many people clean their houses entirely, and find a lot of stuff they no longer use which might still be taking up space, what can you do? YES! Put it up for barter, this will get you organised as well as get you something which you can use for something better than the person you bartered it with.

1.6 Summary

Barter system is exchange of goods or services without involving money. It is an ancient system to trade stuff between cities, countries or even continents. This system has been used by Mesopotamia civilization to Colonial Americans up until now, maybe not as dominantly but it still is in use. Money has just made it a lot more organised,

Today bartering has gone global thanks to the internet, A person sitting in Asia can barter something with someone sitting in America. This can help people save money by getting something they need for something they are no longer using as well as organise stuff around their house by trading stuff that they aren't using.

Covid-19 has left a very big scar, where a lot of people don't have the money to buy stuff anymore, barter system can help a lot to these people, they can trade stuff with each other for general or business need instead of buying it, thus helping everyone involved, this is a system people can rely on because it is not based on some economy but rather on the good someone can offer.

Barter system thus is very useful and can be used in times like these where economy is just not an option but your services and goods are, it may not be as dominant as it once was but it is still as useful as it always has been, helping people trade stuff instead of buying it which they otherwise wouldn't have been able to get.

LITERATURE SURVEY

2.1 Literature Review

Barter system has been a theoretical topic for discussion, rather than an actual use case which is available easily for people to use every day. We aim to remove this barrier, making it easy for people to actually barter with each other easily and practically.

There has been a little work done on this subject but there are not a lot of options available for people to use everywhere. Sites like eBay, still helps people sell tuff rather than exchanging it, which can be useful when the parties involved don't have a common currency or even any currency to start with.

Recent pandemic has led to the latter case more, where people due to drying up their savings during the lockdowns, no longer have a lot of disposable cash, but still have a ton of stuff they can exchange for something that they find useful that someone else doesn't. Barter system can make this mainstream and help a lot of people in situations like these. Providing people with options which they otherwise wouldn't have and reduce being dependent solely on economy rather than goods and services.

2.2 Idea of the Project

The idea of project came mainly from the pandemic, where people due to drying up their saving, no longer had a lot of disposable money they can rely on and use, but still had needs, which they just couldn't afford, what could they do if they don't have money? And thus, the answer Barter system came to our minds. On doing research we didn't find any options in Indian market which people can access and use easily, to trade stuff and not buy it, and thus came our project to provide that option, where people can trade goods and services instead of buying and selling it, not relying on economy anymore and rather relying on the service or goods they can provide.

2.3 Summary

There are a lot of researchers who have worked in the area of barter systems and even more are working right now. The barter system was the only method that was used during the ancient time but as the days are passing by, its usage is getting reduced. Today, bartering has made a considerable comeback using more sophisticated techniques to aid in trading, for instance, the Internet but still it is a long way to go before everyone again understands how the barter system is so much useful to them and how it can help them get the stuff, they want without spending too much money.

FRAMEWORK

3.1 Existing work

Bartering for items and offerings is a centuries-antique art. Recently, the concept of buying and selling together along with your friends and inside your network has acquired a massive improvement and brought on a current spin. Combining our often-materialistic, ownership-primarily based society with the Internet's capacity to carry buyers, sellers, and buyers together, online bartering has sparked a wealth of recent websites and communities.

There are a lot of websites and apps that help people in bartering. Some of them are made in India and some are not. Some of them are:

- Barter streets app
- Swapadda.com
- Barterindia.com

There are thousands of other websites and apps for the barter system.

3.2 Limitations/disadvantages of existing work

Some of the limitations/disadvantages of the barter system apps and websites that are available today are:

- **Lack of marketing:** It is surprising that in India, there are thousands of apps/websites based on the barter system yet when we ask someone if they know any bartering app/websites, they won't be able to name one of them. This is due to the lack of marketing. The developers only focused on building the app/websites neglecting its marketing due to which they are not popularised among the people of India.
- **Bad user experience:** If a developer wants more and more people to use the app he needs to focus on marketing and if he wants the people to use it often, the experience of the app should be good for the customers. With the current apps/websites, due to the very low amount of marketing, very few people got to know about the app, and those who used the app only used them a few times rather than using them regularly. This is due to the bad user experience that they observed while using the app/websites due to which they got repelled from the app.

3.3 Basic system and software requirements

There is no heavy hardware or software required to use the app. For building the app, we have used Android Studio and Java. And for storing the data for the app we have used firebase's real-time database and firebase cloud storage. The system requirements for running the android studio are:

Windows:

- 64-bit Microsoft® Windows® 8/10
- x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor
- 8 GB RAM or more
- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)
- 1280 x 800 minimum screen resolution

Mac:

- MacOS® 10.14 (Mojave) or higher
- ARM-based chips, or 2nd generation Intel Core or newer with support for Hypervisor. Framework
- 8 GB RAM or more
- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)
- 1280 x 800 minimum screen resolution

Linux:

- Any 64-bit Linux distribution that supports Gnome, KDE, or Unity DE; GNU C Library (glibc) 2.31 or later.
- x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD processor with support for AMD Virtualization (AMD-V) and SSE3
- 8 GB RAM or more
- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)

- 1280 x 800 minimum screen resolution

For using the android app, any smartphone with android version 4(KitKat) will work. No additional software or hardware will be required.

3.4 Summary

During the past years, many developers have developed apps/websites based on the barter system but none were able to popularise themselves. It was basically because of a lack of marketing and bad user experience. To overcome that, we have made an android application using Android Studio and Java.

Android Studio is the reliable included improvement environment (IDE) for Google's Android working system, constructed on JetBrains' IntelliJ IDEA software program and designed especially for Android improvement. It is to be had for download on Windows, macOS, and Linux-primarily based on totally working structures or as a subscription-primarily based totally provider in 2020.

MODULE DESCRIPTION

A module is a set of supply documents and constructs settings that will let you divide your undertaking into discrete devices of functionality. Your undertaking may have one or many modules, and one module might also additionally use some other module as a dependency. You can independently construct, test, and debug every module.

Additional modules are regularly beneficial while developing code libraries inside your very own undertaking or while you need to create distinctive units of code and assets for distinctive tool types, along with telephones and wearables, however, preserve all of the documents scoped in the equal undertaking and proportion a few codes.

Android Studio offers many types of modules:

- **Android app module:** Android app module provides a box on our app's supply code, aid documents, and app stage settings including the module-stage construct record and Android Manifest record. When you create a brand-new project, the default module call is "app".

In the Create New Module window, Android Studio gives the subsequent forms of app modules:

- Phone & Tablet Module
- Wear OS Module
- Android TV Module
- Glass Module

Each presents crucial documents and a few code templates which are suitable for the corresponding app or tool type.

- **Feature module:** This module represents a modularized function of our app which could take gain of Play Feature Delivery. For example, with function modules, you could offer your customers sure functions of our app on-call for or as immediately stories via Google Play Instant.
- **Library module:** It provides a field in our reusable code, which we may use as a dependency in different app modules or import into different projects. Structurally, a library module is similar to an app module, however, whilst built, it creates a code archive report in place of an APK, so it cannot be mounted on a device.

In the Create New Module window, Android Studio gives the subsequent library modules:

- **Android Library:** This form of the library can include all report sorts supported in an Android project, inclusive of supply code, resources, and occur files. The construct result is an Android Archive (AAR) report that you may upload as a dependency in your Android app modules.
- **Java Library:** This form of library can include the best Java supply files. The construct result is a Java Archive (JAR) report that you may upload as a dependency in your Android app modules or different Java cannot of your app on-call for or as on the spontaneous studies via Google Play Instant.
- **Google Cloud module:** Google Cloud module provides a field in our Google Cloud backend code. This module has the desired code and dependencies for a Java App Engine backend that makes use of easy HTTP, Cloud Endpoints, and Cloud Messaging to hook up with your app. We can increase your backend to offer cloud offerings your app needs.

Using Android Studio to increase your Google Cloud module helps us to manipulate app code and backend code withinside the identical project. We also can run and take a look at your backend code locally and use Android Studio to install your Google Cloud module.

PERFORMANCE MEASURES

When we speak approximately Android app overall performance, the period “overall performance” can imply pretty much anything, however you listen to it all of the time. Anything and the entirety may be associated with overall performance. In this precise case, let’s approximately technical utility overall performance tracking. This remains a huge period in terms of overall performance tracking. But overall performance tracking isn’t as honest and calls for equipment to the song and assist make feel of all of the overall performance data. Some of the measures that can be considered to evaluate the performance of an android app are:

- **App Stability:** App balance is measured in crashes consistent with consultation or user. The enterprise requirements for crash-unfastened prices to the goal are:
Crash-unfastened users > 99 %
Crash-unfastened sessions > 99.9 %
One of the quality approaches to each reveal and assist enhance your app’s balance is with a crash reporting tool.
- **App Launch Times:** App release velocity could be very indicative of the general high-satisfactory of your app and units the user’s first impression. Based on an evaluation of the pinnacle one hundred apps, 39 apps begin in below or around 2 seconds, and seventy-three in below three seconds. Ideally, you need to be focused on an app release time of 1. five to two seconds.
- **Network Response Times:** Network calls play a big position withinside the pace and responsiveness of your app. A have a look indicates that to be competitive, your app has to reply to consumer requests within 1 second. It additionally suggests that many apps fail to fulfil that because of unreliable or gradual services.
- **App Trace Completion Times:** To nice recognize your end-person experience, you want with a purpose to verify your client-facet good judgment and spot how lengthy particular strains on your app take to execute (2 seconds on average).
- **UI Response Times:** Users can revel in UI hangs for numerous reasons. If there’s an extended than common delay (250ms on average) or a failure to reply to a user’s input, it’s taken into consideration as a UI hang.
- **Apdex Score:** Combining a majority of these one-of-a-kind metrics, the Apdex rating offers you a short tell-all rating that highlights your app’s basic overall

performance as perceived by users. And it makes it a lot simpler to align the crew around one KPI and speak it to all stakeholders.

FUTURE DEVELOPMENT PLANS AND CONCLUSION

6.1 Limitations of the Program

Some of the limitations that are still there in our android app are:

- **Platform Limitation:** Currently the app can only run-on android devices. It is not supported by IOS devices.
- **Technical Bugs:** There are some technical bugs like null values are accepted or layout sometimes gets distorted.
- **Local Database:** The images are stored and accessed from the firebase cloud storage but all the other data is stored on the local device. So, it cannot be seen or accessed by some other user on some other device.

6.2 Future Plans

In the future, we will be developing the same Barter App for IOS devices too so that Apple users can also understand the benefits of the barter system and they can exchange products throughout the app too. Next, we will be fixing all the technical issues there are with our Barter app and try to make it as smooth and efficient as it can be. We will also be using the firebase Realtime database for storing and accessing the database so that this app can be used worldwide.

After fixing all the limitations that currently are in our app and once our app is ready to use, we'll try to launch the app on the Google Play Store as well as the Apple Store so that people can download the app from there and access barter in their life. We will also be working on the marketing of the app as previous apps and websites failed because they were not able to reach people through marketing.

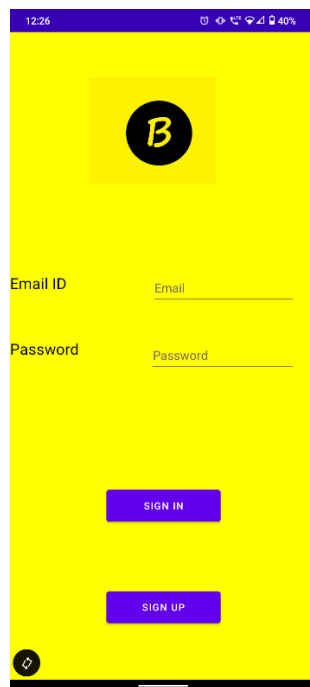
6.3 Conclusion

From this project, we learned a lot about how Bartering works and how it can be useful in our day-to-day life. We learned the characteristics of the barter system, how it works, what are its advantages and disadvantages, etc.

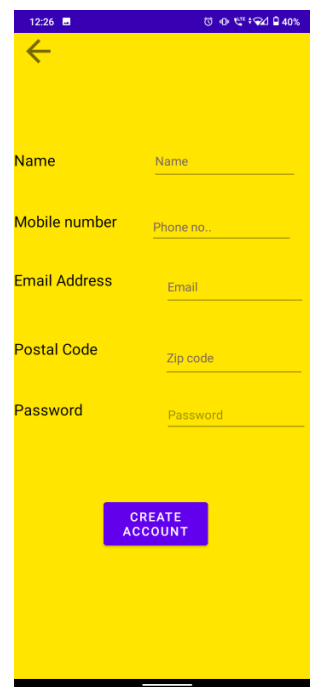
The app can be very useful to various people. Let's say that I have a brand-new mobile phone and I need a laptop in exchange for that mobile phone. So, I can use this android application to exchange the laptop with this phone and I do not spend any extra money on it. Similarly, this app can also be useful to various NGOs as many people donate the things they do not require to the NGOs and as a matter of fact, maybe the NGO also doesn't require that product. So, they can just exchange it with whatever they want and whatever is useful for the NGO.

We also learned various techniques that are involved in building an android application and various aspects of the android studio.

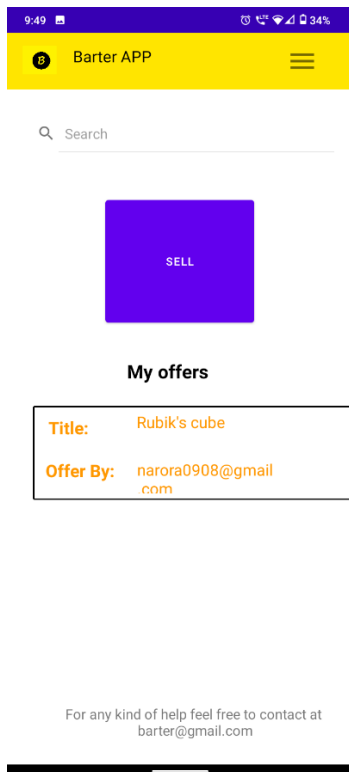
SNAPSHOTS OF THE APP



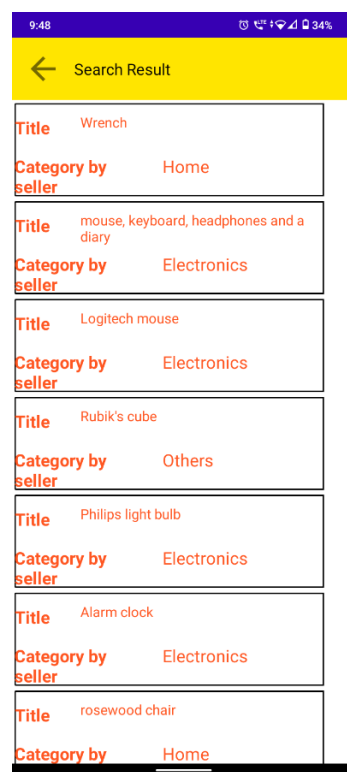
Login Page



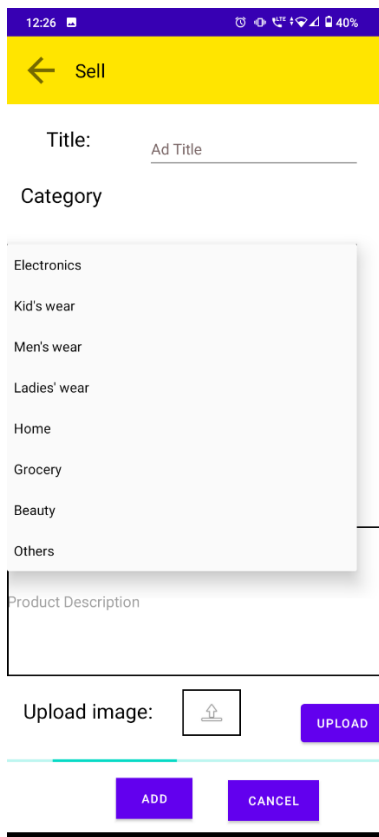
Sign up Page



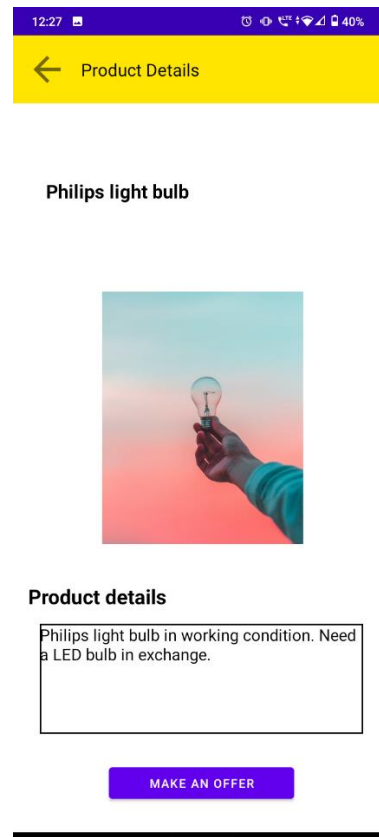
Home Page



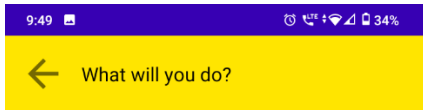
Search Result



Add insertion



Product Details



Title:
Email

*Note: Please keep a note of the email ID mentioned above in order to contact the person of the other side of the exchange. You won't see it further.

Offer

I am offering a toy car.



User decides whether to accept or reject



What is barter?

Barter is an act of trading with goods and services between two or more parties without the use of money or a monetary medium, such as credit card. In essence, barter involves the provision of one good or service by one party in return for another good or service from another party.

How barter works?

Have you ever thought about disposing of an unwanted article in your home or office? Of course, you would have very often. But then stopped yourself from doing it, thinking what value you would get by doing this. Some might even find an excuse that it may be useful in some way in the future and that eventually never happen.

Imagine trading your old toys or clothes with someone who is thinking of starting or already running a recycle unit. Else providing personal care services in exchange for an electronic product. This is when the age-old trading practice called Barter comes to your rescue.

About Page

REFERENCE

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- [Projects overview | Android Developers](#)
- [Android Performance Monitoring Best Practices | Instabug Blog](#)