RENTIFY ANDROID APPLICATION

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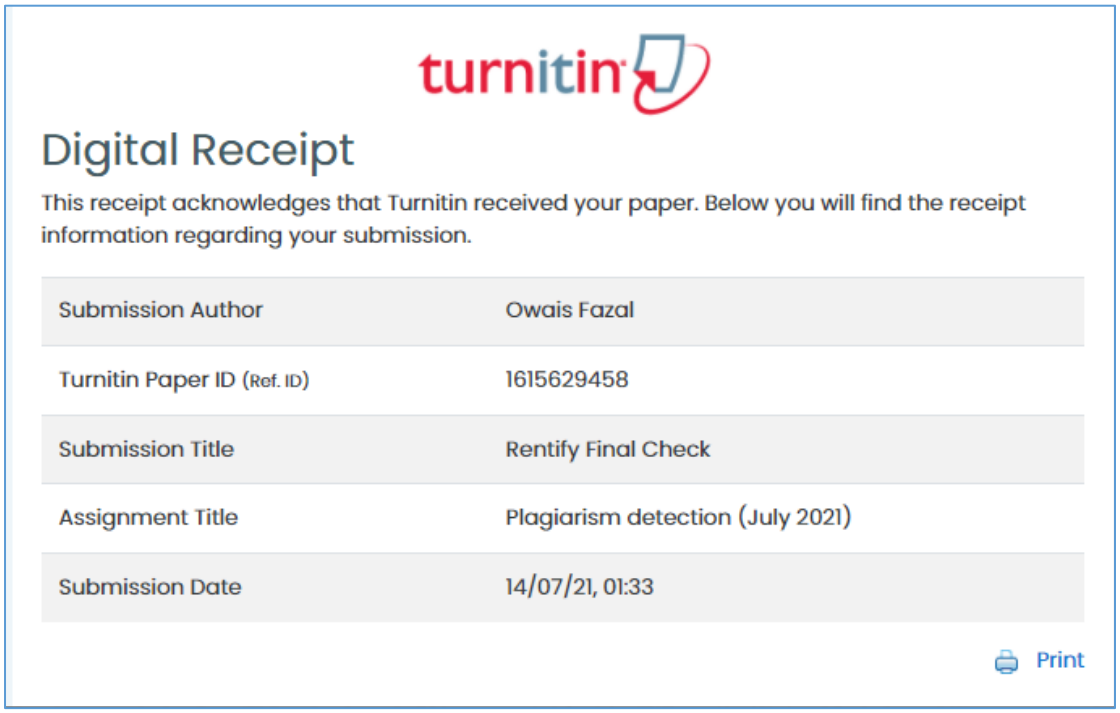

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ABSTRACT

This report explores the Research, Design, and Implementation of Rentify Android Application. Software Industry has been working for many years by adopting various technologies to enhance the Rental business. The vision of Rentify app is to provide on-the-spot information about products available for rent etc. at your fingertip.

The application described would be a prototype that would shape the future & there still remains much to do in terms of development and improvement of the existing models. Applications created with ease of understanding and the design can be created and tailored to the rental process to make it more effective and user friendly, thus making it easier & convenient for the users to lend/rent products with the use of this application.

The basic concept of the application is to provide safe and sound environment for both Users. Once a user return product to owner he will be asked for ratings. Which will not only create an impact in business but will force him to improve quality of work and customers dealings.

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CHAPTER 1
INTRODUCTION

1.1 Introduction

We have personally experienced the annoying situations when we need something in emergency but can't afford to buy it in hostel life e.g. car, bike etc. we visits many places to take it on rent but it will waste our precious time so we decided there should be an android application for rental purpose by using that application user will find products on spot without wasting his time and take it on rent. One thing about this Application is that there is no such platform where user can take anything on rent at one place. It was very difficult situation to find a product on rent in emergency Situation. Only we know what we experience. To solve this real world problem we are creating an android application by the name of Rentify Android Application. Through this platform it will be easy to find the desired product you are looking for irrespective of the time. For FYP we have limited resources and time. For the time being scope of the project is limited by covering main functionality but once things started to sort out we will look forward to enhance the scope nationwide and improve our App with the passage of time.

This application will help Users on such occasion so that they can easily find the best suitable product they need and take it on rent.

1.2 Purpose

Android application will provide login to Admin and Users. User can view product information and check the availability, if product is available user can take product on rent. There is an option of message by using chat option user can communicate with product owner and discuss terms and conditions.

1.3 Scope of system

There is no such platform where we can take any product on rent. OLX offer Sale purchase and only property on rent. We might face problems in initial stages but sooner or later we will get the reward of our hard work and determination.

1.4 Project's functions

The project main functionalities are:

- Login/Signup
- Admin Verification
- Book Product
- Search products
- Chat feature
- Review/Rating

1.5 Area of applications

- Rentify Android Application is commercial based APP dealing with all kinds of stuff available for rent.
- OLX etc. are providing online sale purchase facility in a similar way we are creating a platform where User Rent products and can communicate to one another.

1.6 Aim and Objectives.

The user objectives are as follows:

- Automation of current business process which was handled manually are deal through modern online system.
- Save Precious Time of User.
- Interface is user friendly and less complex.
- Well define goals.

CHAPTER 2
BACKGROUND STUDY

2.1 Idea generation:

The idea of creating this type of commercial application was hit our minds when we were personally victim of serious issue not to afford car, bike in hostel life. Software Industry has been working for many years by adopting various technologies to enhance the Rental business. The vision of Rentify app is to provide on-the-spot information about products available for rent etc. at your fingertip. We look many applications websites just like Zameen.com, lender, OLX have only one or two products they offer for rent. There is no such application which deals with all kinds of stuff which is available for rent so we decides to make Rentify Android Application to provide everything on fingertips. Rentify App has the capability and capacity to resolve all such issues.

2.2 Proposed Features:

2.2.1 Login/Signup:

In OLX there is only one login account for user to sale or purchase products. Using same pattern we have created one login which can be used as renter or product owner. Both the Renter and the Product Owner can sign up to application. However, login for admin is separate which can be used for account verification of user and for many other purpose.

2.2.2 Post Product:

Product owner can post his product advertisement. Renter will be able to view product advertisement and can take product on rent if he needs it.

2.2.3 Chat Feature:

The Renter can chat with the product owner using built in chat option. If Product Owner is Offline there must be Product owner Contact number in advertisement. There is Contact Owner button in Advertisement to discuss terms and conditions of product.

2.2.4 Book Product:

When both users reach to mutual agreements Renter will book product and specify date that he will use product to that date.

2.2.5 Search Product

There is search bar for search product by names. It will save user time instead of checking products one by one.

2.2.6 Review/Rating

When Renter return product to product owner. Renter share rating for product owner.

2.3 APP DEVELOPMENT:

For Android Development we use Android Studio with an emulator for parallel testing and development.

2.3.1 Limitation & Constraints:

The limitations and constraints of the Android application are:

- It will be only usable on Android Phones.
- Need Android version 5.0 or above, 1 GB RAM.
- The application is restricted to the English language only.
- One user can use the application on multiple Android phones but, multiple accounts of one user with the same email address or similar ID will not be allowed.

2.4 CONCLUSION:

This application will not only bring ease in the life of needy users, it also increases per capital income of the Product Owner. Bringing manual rental business to internet world is never an easy task.

CHAPTER 3
LITERATURE REVIEW

3.1 Introduction

Olx is operating in our country for the purpose of providing platform to sale product online. We can adopt the same mechanism to develop an android application for rent services.

Conventional procedure of booking product was used back many years and different procedures and methods were followed in different times. Rentify will be an advancement of existing setup of booking products, saving time and effort. The main intention of the project is to set up a system in form of Android application that will automate the whole process of renting products through mobile phone. User can call owner from any remote area and by sharing each other's location. Once both users agree on each other's terms they can meet and exchange cash with product/ services

3.2 Problem Domain

Keeping in view the current renting service/ product, a citizen needs to vist the market himself and after searching and spending time he may not be get his required product. Even if they come across their required product, it may not be available for rent because 90% of market works on sale or purchase, not for rent.

It urges the use of modern technology to minimize the effects of this existing disparity by making an android–based application to enable the users to rent product/ services through their cell phones by making contact through the usage of an automated system.

3.3 Related Work

Currently there is no system working that provides the services of renting products/ services. OLX are operating in our country for the purpose of providing sale/ purchase. We can adopt the same mechanism to develop an android application for renting products/ services.

Project Objectives that distinguish our solution from the others:

- "Rentify" becomes the pioneer in Pakistan to provide all product/ services for rent on an automated system.
- Our application can be deployed anywhere in Pakistan.
- Will minimize the gap of communication between the owner and barrower of the product/ services.
- To develop an automated system for public to facilitate them with new concise and precise way.

- Will minimize the time required to book product in accurate and precise.

3.4 Shortcomings/issues

- Internet connection is essential for the working of Rentify on android phone.
- The application is for android based smart phones only.
- Location accuracy depends upon the quality of the user's mobile set.
- For earlier versions, the contents of the application will be in English language only.
- Currently we are using non paid cloud services that may be imprecise in terms of speed and services.
- The server will not be available in case of maintenance and testing issues. No backup server configuration is provided.

3.5 Proposed Project

This mission is concerning the online renting products mobile Application, it 'clone application of OLX but it has some different functionalities.

Rentify will be an advancement of existing setup of booking products, saving time and effort. The main intention of the project is to set up a system in shape of Android mobile based application that will automate the whole process of renting through mobile phone. User can inquire any product from any area. Once the owner receives booking notification, he can accept the booking request and chat for more details.

3.6 Deliverables

3.6.1 Software Requirement Specification (SRS)

The purpose of the document is towards the introduction of a comprehensive picture of the Rentify. It describes the persistence and characteristics of the system, the interfaces, the boundaries of the system, whatever the product will do, its processes and workings, noted that the constraints by which it ought to operate and how the system is going to act in response to exterior stimuli. This paper is intended for developers and the

participants of the system. It shall describe how the system will primarily aid concerned groups to team up and cooperate with each other.

3.6.2 Software Architecture Document

In this document the overall architecture of the system is discoursed, also including the introduction of various components and subsystems. It is chiefly braced by system Architecture diagram which depicts an insider's viewpoint of the system by unfolding the high-level software components that execute the major functions to make the system operational.

3.6.3 Software Design document

The Software Design Document is a record to give documentation that shall be utilized to help in programming advancement by giving the subtleties to how the product ought to be fabricated. Inside the Software Design Document are narratives and graphical documentation of the product plan for the task. It covers every single practical prerequisite and shows how they communicate with one another adroitly. The low-level design additionally appears with respect to how really we have been executing how we are going to actualize these requirements.

3.6.4 Implementation code Document

The implementation code document provides details about the pseudo code for the application and project prototype.

3.6.5 Software Testing Document

This document has testing modules in which there are certain test cases which depicts the correctness and accuracy of the project.

3.6.6 Final Project Report

This is the thesis report which compiles all the previous and current working for the project. Thesis report provides the whole summary for the project and also give details about each and every aspect of the project starting from introduction of the project, literature review, requirements leading to design discussions then testing and lastly future work and conclusion.

3.6.7 User Manual

User Manual gives details about the use of the product. It contains details as how to use the product. Its functionalities and details of every aspect as how that works and how to use it. User Manual is for users to get to know the product.

3.7 Technological Requirements

Rentify entails subsequent software and hardware requirements specifications.

3.7.1 Software Interfaces

- The app will require access to the device GPS, and request permission for location tracking via the Android Operating System
- Rentify shall work on Firebase database management system.
- Rentify app shall be able to execute on all android devices with basic hardware requirements fulfilled that run Android OS 5.0 or above.
- The app will require permission to access gallery to select pictures through Android Operating System.

3.7.2 Hardware Interfaces

Mobile Device

The hardware, software and technology used must possess the subsequent specifications:

- Android Device (Smartphone or Tablet) running Android 5.0 or later, color display.
- Touch Screen with haptic feedback on key presses (Android Keyboard).
- Global Positioning System.
- Operating System: Android
- Capability to link to Wi-Fi or mobile communication network.
- Capability to exchange information across the network.
- Touch screen intended for accessibility or keypad (if touch pad is not accessible)
- Processor that possess the speed of 1 GHz
- Ability to use Location services Google maps and other services of mobile.
- Ability to take over input from user
- Device needs to have at least 512 MB of RAM

3.7.3 Communications Interfaces

1. A connection shall be established between the System and the cloud services of Firebase.
2. To access the services of the application we need to establish connection between the application running on mobile device and firebase database cloud computing.
3. Communication between application and the database is provided by cloud services of Firebase.

CHAPTER 4
SYSTEM STUDY

4.1 Introduction

As the name suggest that this application is related to Rental Business. This project is completely software based with no hardware, being involved. Internet connection is the must for every feature. The user interaction with the system and the processing done within the system is supposed to be well managed and fully organized.

4.2 Requirements

Requirements for the development of application at different phases are as follows.

4.2.1 Software

The software components used in this project are as follows:

Android Studio

Android Studio is the most well-known software for creating Android applications. Lots of Android apps are being produced using Android Studio. It is one of the easiest ways to create an Android app.

Emulator

It is the built-in feature of Android Studio. Some other emulators are also available on the internet which is compatible with Android Studio. Emulators are used by developers for the simultaneous testing of Android applications. Instead of opening the app again and again in the personal phone for testing, emulators are used. They not only save time but gives the same virtual effect. The only problem is that they show ideal scenarios. It is necessary to test an application in real time after emulator.

Firebase

The Firebase Real time Database is a cloud-hosted database. Data is stored as JSON and synchronized in real time to every connected client. Where developers build cross-platform apps with our iOS, Android, and JavaScript SDKs, all of clients share one Real-time Database instance and automatically receive updates with the newest data.

4.2.2 Hardware requirements

The minimum hardware requirements for the Rentify Android Application are:

Table 1: Hardware Requirements

NAME	REQUIREMENTS	CRITICALITY
RAM	1 GB	Compulsory
ANDROID PHONE	OS 5.0 or above	Compulsory

4.2.3 Functional requirements

Following are the functional requirements of the system:

- Post Product
- Search Product
- Chat Feature
- Book Product
- Ratings

Table 2: Post Product

Title	Post Product
Description	The users (Renter, product owner) can post product Ads if they are willing to give product on rent by providing images of product and other relevant details.
Criticality	Important functionality
Technical Issues	-
Cost and Schedule	-
Risks	-
Dependencies	-

Table 3: Search Product

Title	Search product
Description	When user will generate a request to search desired product application will give relevant result according to search to save user time.
Criticality	Important functionality
Technical Issues	-
Cost and Schedule	-
Risks	-
Dependencies	-

Table 4: Chat Feature

Title	Chat Feature
Description	Users can contact each other using built in chat feature.
Criticality	Important functionality
Technical Issues	-
Cost and Schedule	-
Risks	-
Dependencies	-

Table 5 :Book Product

Title	Book Product
Description	Renter will book product for rent after contacting owner when they came to mutual agreements.
Criticality	Important functionality
Technical Issues	-
Cost and Schedule	-
Risks	-
Dependencies	-

Table 6 :Rating/ Review

Title	Rating/Review
Description	When Renter return product to owner he will submit rating/review to improve dealing or business.
Criticality	Important functionality
Technical Issues	-
Cost and Schedule	-
Risks	-
Dependencies	-

4.3 Non-functional requirements

Following are the non-functional requirements of Rentify Android Application:

- Interactive interface
- Fast and instantaneous response
- Target latest android systems

4.3.1 Serviceability

Proper documentation should be provided so modifications can be made efficiently.

4.3.2 Reliability

- The system will not crash under any circumstances.
- It will always be available to the user end.
- If the system gets crashed then it will be recover in minimum time.

4.3.3 Maintainability

The system can go under changes and updating process in the future. The product can be fixed if any failures occur. There will be evaluations of the system on quarterly basis and performance enhancement measure will be inducted.

4.3.4 Extensibility

The system can be extended later when other functionalities are added into application.

4.3.5 Performance

- The application will be fault tolerant.
- Quick response to the user inputs.
- Error reporting will be efficient.

4.3.6 Availability

The system is available 24/7. Anyone can use anytime of the day if he either wants to get products on rent.

4.3.7 Portability

The system can be used on any android Smartphone having version 5.0 or above. Good internet connection is compulsory for certain features to work properly. One can use the system easily if he understands Basic English language.

CHAPTER 5
SYSTEM DESIGN

5.1 Introduction

Design helps to analyze the working flow and architectural study of the system. Design act as a base for proceeding activities in the development cycle. The robustness and efficiency of software depends on its design. A good design leads to efficient software. System Design is the phase of quality and effort estimation in software development. For the better development of any project, clear and feasible design is required. Design helps to convert the user requirements into graphical representation which helps to identify flaws and weakness. Software without good design are always annoying to change and modify.

5.2 Structure analysis

We have used Incremental Prototyping for developing our android application. This approach helped us to modify the application at any stage, it also made the testing and debugging easy. The incremental approach helped us to add new modules and, to conduct their testing. Software prototyping refers to the activity of creating prototypes of software applications, i.e., incomplete or underdeveloped versions of the software being developed. A prototype typically simulates only a few aspects of the final solution, it may differ from the final product.

Prototyping has several benefits:

- The designer and coder can get valuable feedback from the users in the early phase of the project.
- It helps to check whether the software is according to the specified requirements or not.
- It helps to meet the deadlines.

5.3 Interface design strategy

While designing the interface we have tried to create attractive and user friendly interface. The impact of Interface design is more critical and crucial. Many android users judge app via its interface.

We used Gold driven approach to make design and this approach is:

- Design then code
- Responsibilities are separated
- To achieve customer satisfaction

- Know the target audience

5.4 Interface design & requirements

5.4.1 User Interface

The system will consist of interactive and easy to use GUI's designed. User Interface reflects to the first impression of user. User Interface is as important as functionalities and features. Many android applications are famous only because of fine user interface.

5.4.2 GUI

The Graphical User Design of our application is as follows.

Main Screen: Our main screen menu has four options. Each of these have their own functions.

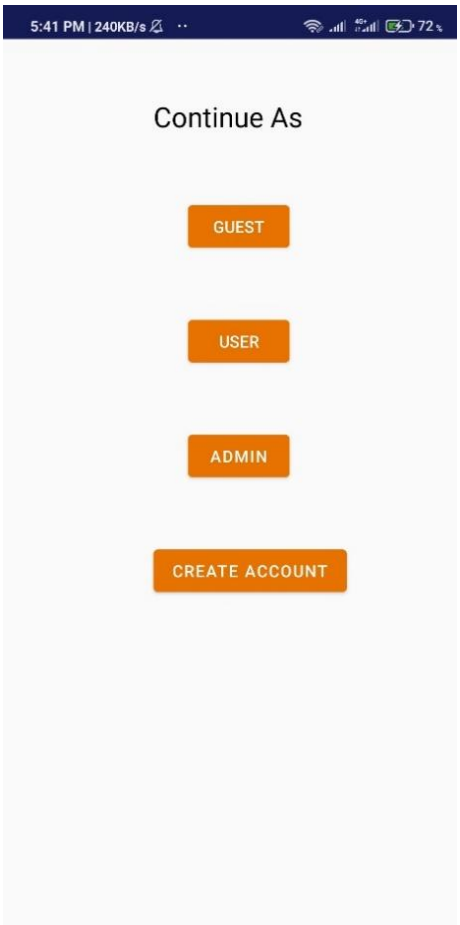

Figure 5.1: Main Screen

Login Screen for User: This screen enables the user to login to system.

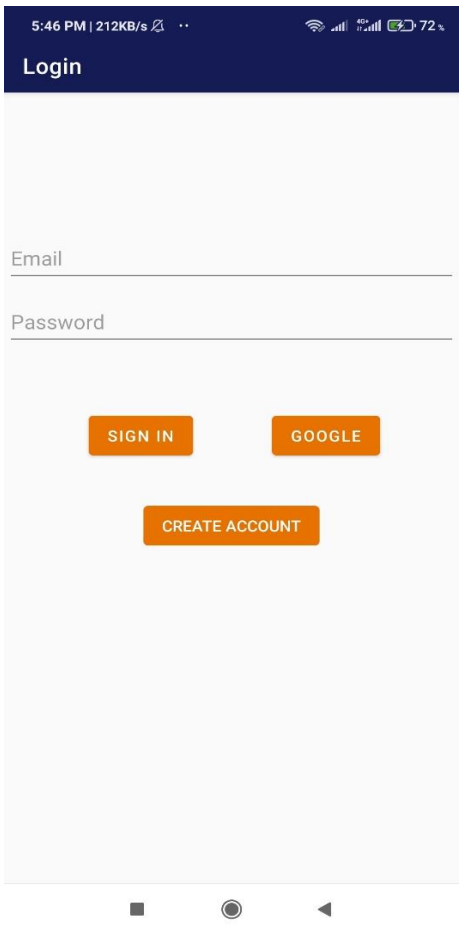

Figure 5.2: Login Screen

Sign up Screen: This figure shows Sign up Screen for User. Using This Screen User Can Create Account to login into System.

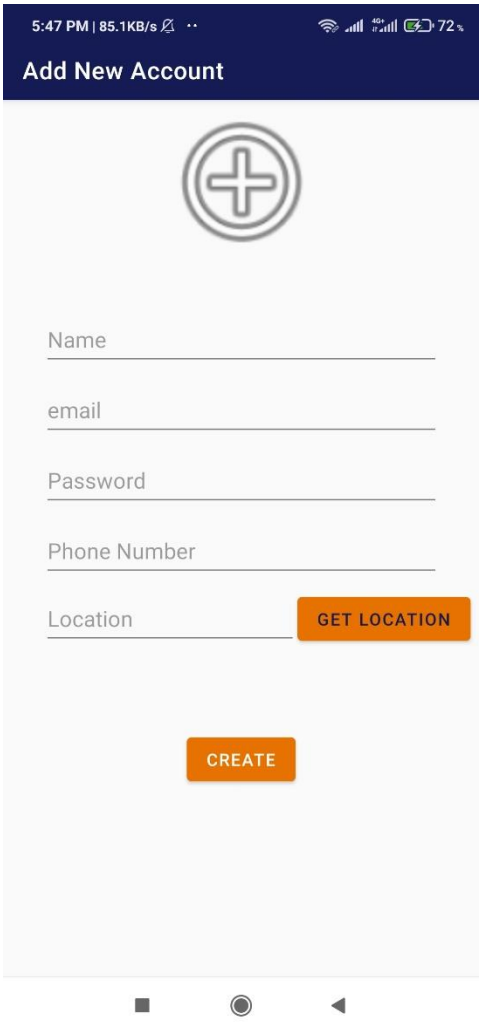

Figure 5.3: Sign up screen

Chat Screen: This interface shows the User Chats Fragment. The User Chat list increases every time when we contact different users for product rent dealings.

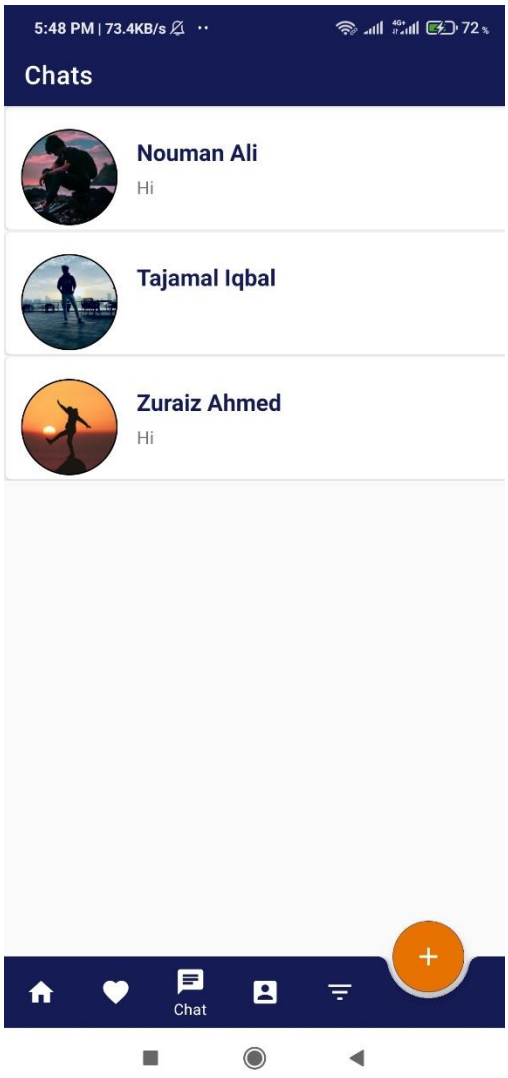

Figure 5.4: Chat Screen

Post Product Screen: This screen is used to Post Product. User must enter all relevant details of product and post product for rent.

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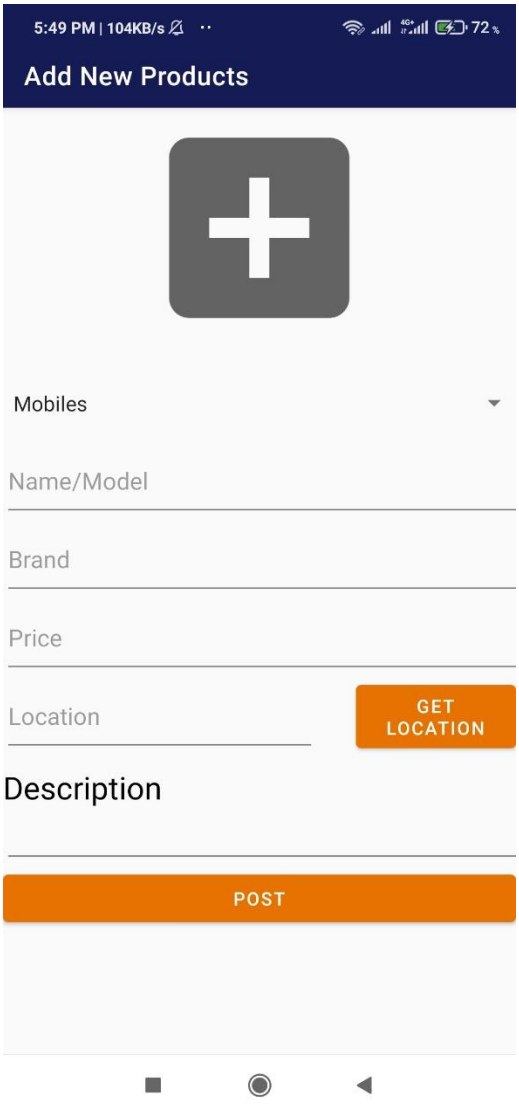

Figure 5.5: Post Product

My Ads Screen: This interface shows my ads fragment which are posted by the user.

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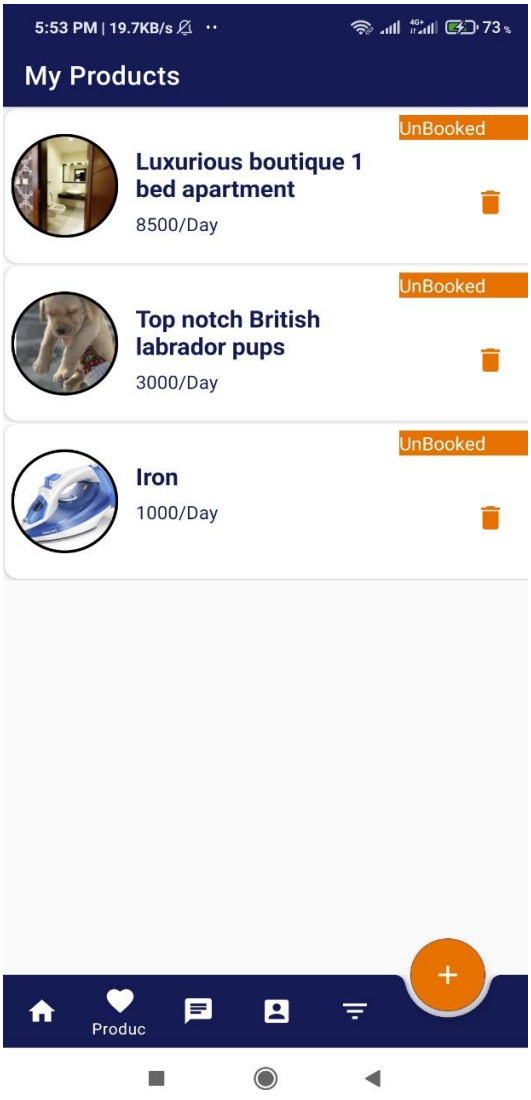

Figure 5.6: My Ads screen

Product Details Screen: This image shows the interface of Product Details. When User Click on Product That Screen is appear.

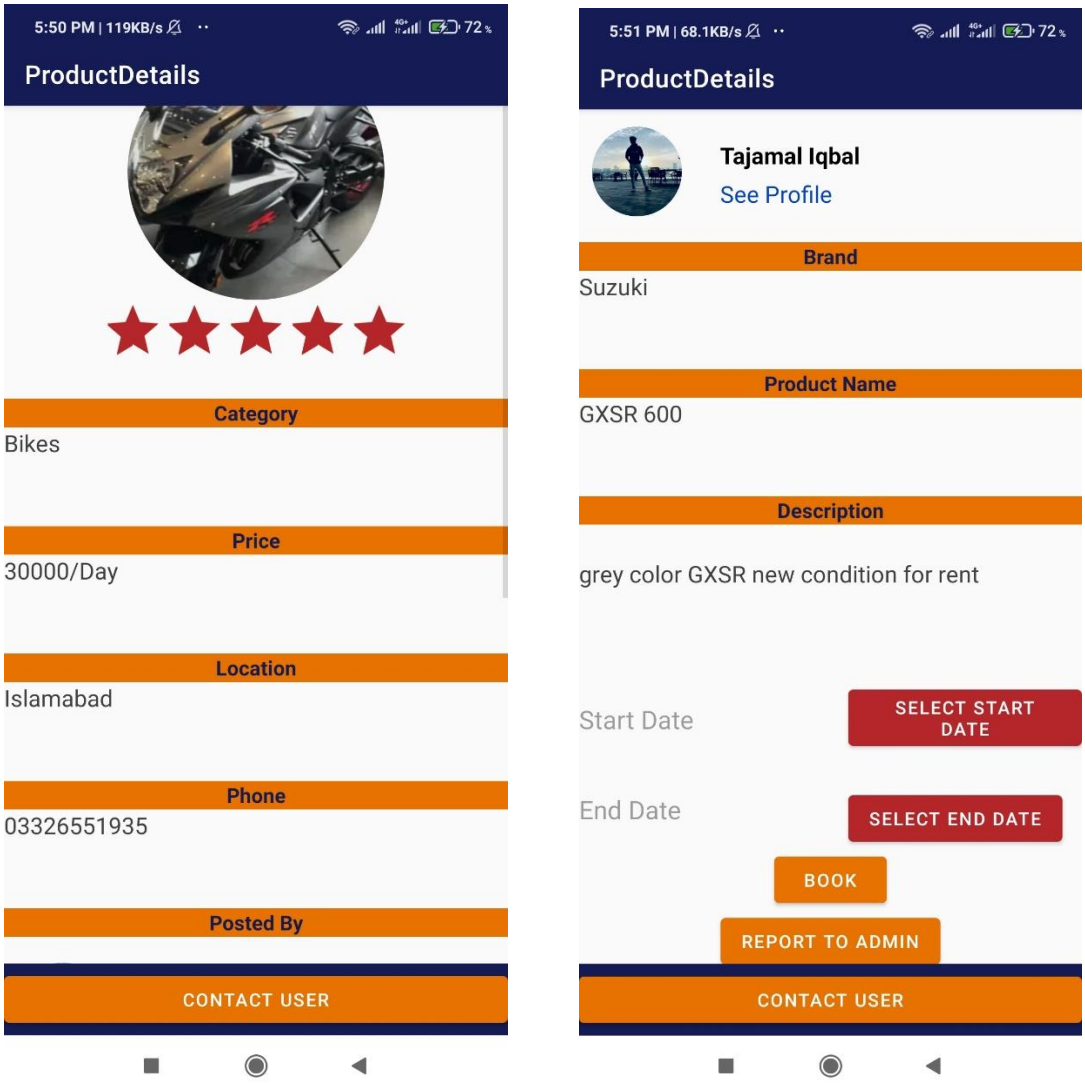

Figure 5.7: Product Details Screen

5.4.3 Hardware Interfaces

This project is completely software based. There is no hardware involved in the project.

5.5 Communications Interfaces

Internet connection is required for every functionality like:

- Login/signup
- Admin Verification
- Post Product
- Book Product
- Chat Feature
- Search Product

The interface are in one language i.e. English.

5.6 Software Interfaces

In Rentify Android Application the user interacts with the interface provided by the system only.

5.7 Standards Compliance

- The system should comply with Android studio.

5.8 Interface constraints

While making interface we kept in mind that there are different constraint and limitation in interface design and these are listed below:

- Interface should be usable
- interface should be attractive
- easy to adopt changes
- Limited to Android Smartphone.

CHAPTER 6
SYSTEM MODELING

6.1 Use case modeling

Use case modeling is that it helps us design a system from end user's perspective. It is an effective technique for communicating system behavior in the user's terms by specifying all externally visible system behavior.

Actors in system

The actors in the system are

1. Admin/Developer
2. User

6.2 Use Case Diagrams

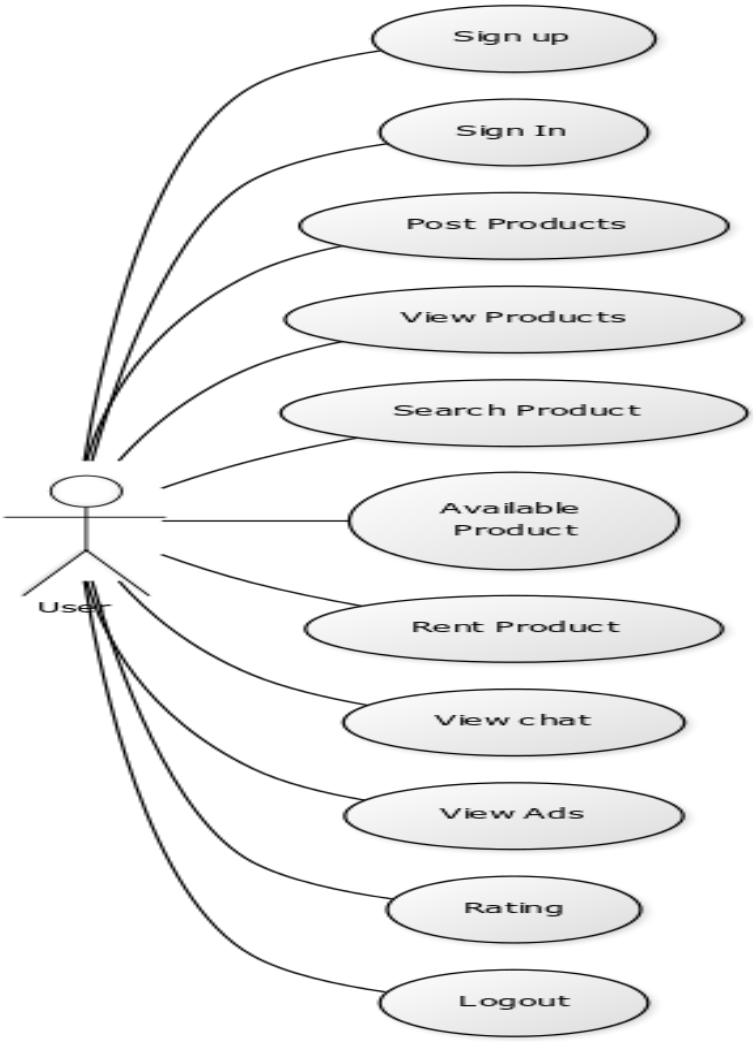

Figure: User Use Case diagram

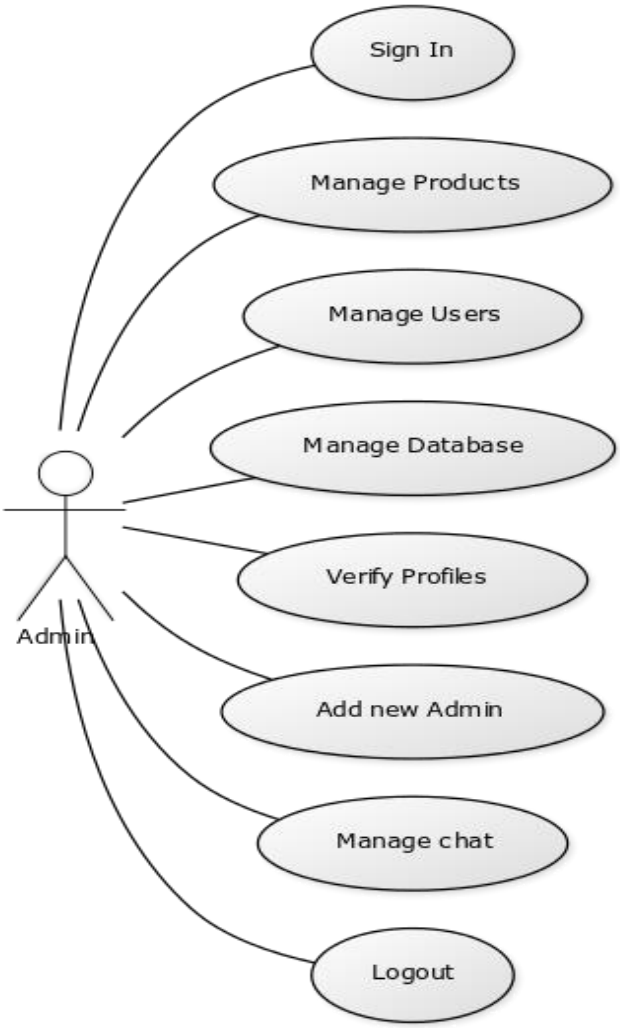

Figure: Admin Use Case diagram

6.3 Class Diagram

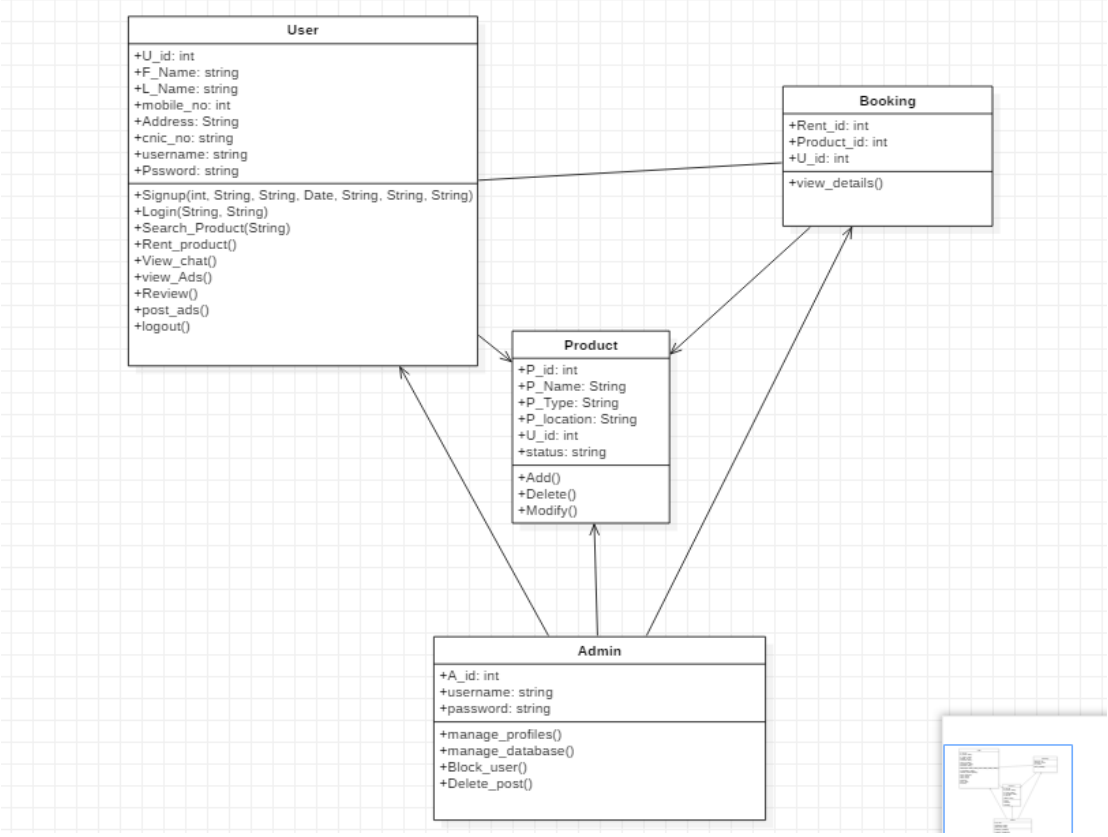

Figure: System class Diagram

6.4 Sequence Diagrams

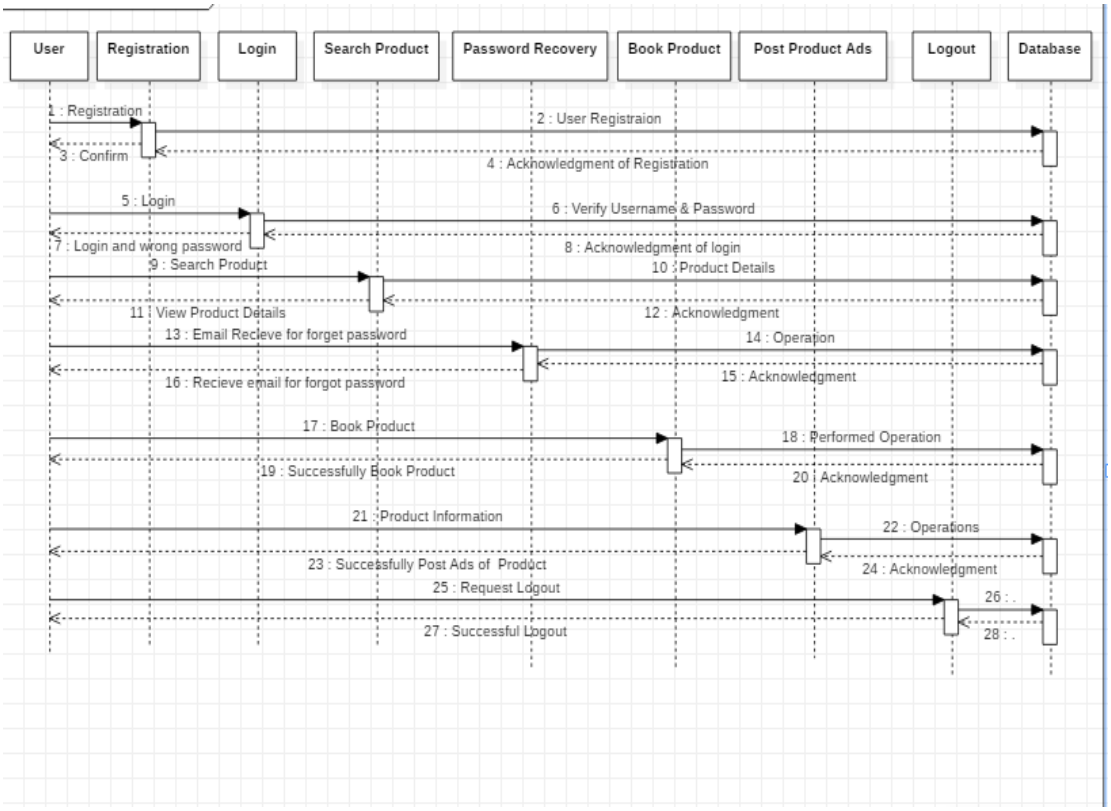

Figure. System Sequence Diagram

6.5 Scheduling

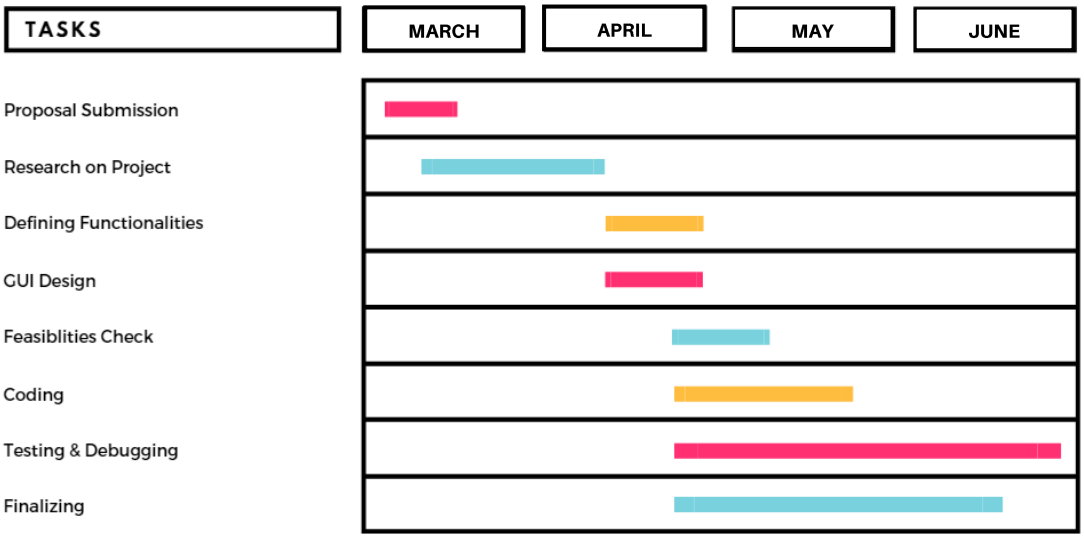

Figure: Project Scheduling

CHAPTER 7
IMPLEMENTATION

7.1 Introduction

We have created this android application for users who can't afford to buy products which are expensive. User can take these products on rent and enjoy life. This android application has two logins, one for Users of the Application second for the Admin to approve new users by verifying their details and manage database, users etc. Users will sign up before login.We have gone through different phases while creating an android application.

7.2 Algorithm

Thinking and creating logic to create software is a difficult task. Choosing an algorithm that is most suitable for resources is never an easy task. Many things have to be compromised, for one reason or another. We have carefully written an algorithm that gives up to 95% efficiency with optimized resources. We have not compromised on the quality of our product. We aim to provide the best results to our users and, for the best result, the best algorithm has used.

7.3 Complexity analysis

We have tried our best to keep the complexity of code easy. We have used comments to make it easy to understand for the other developers. The algorithm is also easy to understand. Modification is the step that involves complete understanding and analysis of code. Our code is easy to understand which, makes it easy to modify. The code has been written using extendable, modifiable, flexible, portable, and reliable and many other such techniques. Thus, making the code easy to debug and test.

7.4 Feasibility analysis

Every point we have mentioned in the SRS document was feasible except for the location based Search module due to some limitation of search based on location in Firebase. There are some limitation the Firebase create hurdle in searching but Searching based on Product name will work accurately and we implement searching based on product name.

We have carefully analyzed all other feature and their feasibility. We have to use Incremental Prototype model which makes the feasibility analyses easy for every module. Our application is more than 85% as desired. Our product is according to the

requirements that were described thoroughly in the SRS document except for the location based Search module.

7.5 Coding

The coding has been done by using Android Studio. Java is the programming language that android studio supports. It also supports C and C++ but, they are not promoted by Google for Android applications.

Like many other Android developers, we have used Java for the coding and development of our application. Java makes it easy to create an application with tons of tutorials available on the internet.

CHAPTER 8
TESTING

8.1 Introduction

We have tested our application step by step. On the completion of each module, testing had been performed by us. The development and testing were being run in parallel by us. This approach allows us to build error and bugs free module.

This chapter includes some test cases for the Rentify android Application to check if the system works properly in various situations.

8.2 Types of testing

We have used different software testing techniques according to the requirement and need of the project.

8.2.1 Black box testing

We check every module every function of our application. All functions are working correctly as we know we only check functionality ignoring internal structure in this type of testing.

8.2.2 Unit testing

In this type of testing we test every module of application individually. Typically it‘s done by the programmers but not by the testers. We test it on every possible input because this type of testing requires detailed knowledge of the internal program design and code.

8.2.3 Incremental integration testing

In this type of testing we test the addition of every new functionality in the module. Application functionality and modules should be independent enough to test separately. Our application is working correctly and the bugs arrive during incremental integration testing are fixed with the passage of time.

8.2.4 Integration testing

We test the integrated components to verify combined features after integration. Modules are usually code modules, individual applications, client and server applications on a network, etc. Every module which is integrated to other are working correctly.

8.2.5 Functional testing

This type of testing we ignore the internal structure of the application we only focus on output of the application e.g. if we book a product it will book or not. Output must be correct when user book product it must be book and our application giving correct output on every task.

8.2.6 System testing

Every module comprises of different functionalities. These functionalities are checked in our application to ensure the overall correct working of the system. It is the subtype of Black box testing which is responsible for the flawless working.

8.2.7 End to end testing

In this type of testing we test complete application environment in a situation that mimics real-world use, such as interacting with a database, using network communications, or interacting with other hardware, applications, or systems if appropriate.

8.3 Testing strategies

A strategy for software testing integrates software test case design techniques into a well - planned series of steps that result in the successful construction of software. Testing begins at module level and ends with system integration. The developer of the software conducts testing and, for large projects an independent test group conducts it. Testing and debugging are different activities but, debugging must be accommodated in any testing strategy.

We have used Incremental Prototype Software development technique for the parallel testing of our product.

8.4 Test cases

Test case 1

Test Case	To check the Search feature
Test Procedure	User Search for product which he is looking for Rent.
Expected Result	The system will show the product which is related to search.
Actual Result	Same as the expected result.
Comment	Search feature is working properly
Conditional Test	Try the same for areas where there is no product related to search.
Expected Result	The system should not mention any result.
Actual Result	It is working correctly
Accuracy	Accuracy depends on Internet, RAM and quality of the hardware.

Test case 2

Test Case	Users communication
Test Procedure	The Renter try to communicate with the Product owner via chat feature
Expected Result	The message is delivered to owner.
Actual Result	Yes, owner was able to receive the message.
Comment	Stable Internet connection is mandatory.
Conditional Test	Try the same for different product owners.
Expected Result	It should work properly.
Actual Result	Yes, it was working properly.
Accuracy	Depends on the stability of the internet connection.

Test case 3

Test Case	To check the rating system
Test Procedure	As Renter try to give star ratings to a Owner
Expected Result	The ratings must be visible to other Users
Actual Result	Yes, the rating was visible.
Comment	To ensure the quality work from the Owner.
Conditional Test	One renter can give single rating to a Owner.
Expected Result	It should work.
Actual Result	It is working.
Accuracy	Rating showing on Owner profile is same as given by the Renter.

Test case 4

Test Case	Post Product
Test Procedure	Tap on Post Item Button to open Post item Screen
Expected Result	Post Item Screen appear
Actual Result	As expected.
Comment	Post Product feature worked perfectly as mentioned.
Conditional Test	Input wrong data
Expected Result	Give warning on input wrong data
Actual Result	As expected.
Accuracy	Provide accurate results.

Test case 5

Test Case	My ads feature
Test Procedure	Post Item and Check it in Ads Fragment
Expected Result	When Item Post it will appear in My ads fragment
Actual Result	As expected.
Comment	Work perfectly as mentioned.
Accuracy	Work Correctly

8.5 User manual

Temporarily, we have not provided any user manual with our system.

8.6 Ease of use

Rentify android Application is fairly easy to use if the user is familiar with android phones and English language. Anyone can use this system if he gets a training session of 1-2 hours from a trainer.

8.7 Software manual

The application manual contains detailed working of the system. It describes the functionality and working:

- The user must have an Android version 5.0 or above.
- The user has to install the application first if, it is not installed in the user's mobile.

To install the application internet connection is mandatory.

8.7.1 How to install application

Apk file extension is available to install the Android application. The apk. file can be saved in any compatible smart phone and it will be able to install it. But hardware is necessary for application/simulator to work.

8.7.2 Hardware/software requirement

This application can run on Android Smartphone 5.0 or above.

Requirements for Smartphone

1. Android 5.0 or above
2. RAM 1 GB minimum.

CHAPTER 9
FUTURE EXTENSIONS

9.1 Future extensions

Our project has some future extension ideas which are discussed below:

- Addition of Online Payment system that can user pay each other using Online payment method.
- Addition of Location Based Searching Feature so user can easily search item based on location.
- Improvement in User Interface to make software more User friendly and attractive.
- Increasing the accuracy of the project, if the project is provided with better resources, multiple things can be improved including accuracy of the project like performance results etc.

CHAPTER 10
CONCLUSION

10.1 Conclusion

Although many work has already been done in Rental and E-Commerce business, but nothing significant was done in the field of rental business. By referring background research, we can simply say that our project can be improved if provided with resources. It is an improvement on many aspects of other project that were built before it and had the same idea but only working on sale purchase of product. If we effectively use this project, it can greatly help the userin rental business to get products in much reduced costs. Any User can use this application if he has some basic knowledge of android phone and is familiar with English language. This makes the project extremely easy to understand and use without any supervision of the developer. In the end, we hope that this project will be of great use for the purpose it is made for and will inspire others and our team to further upgrade it and improve it in the future.

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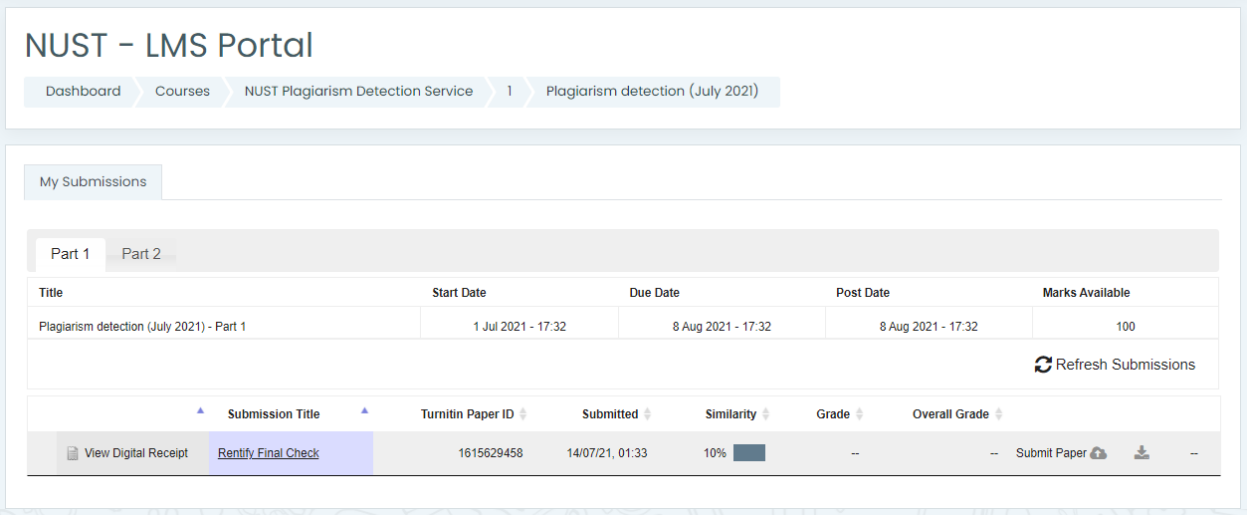

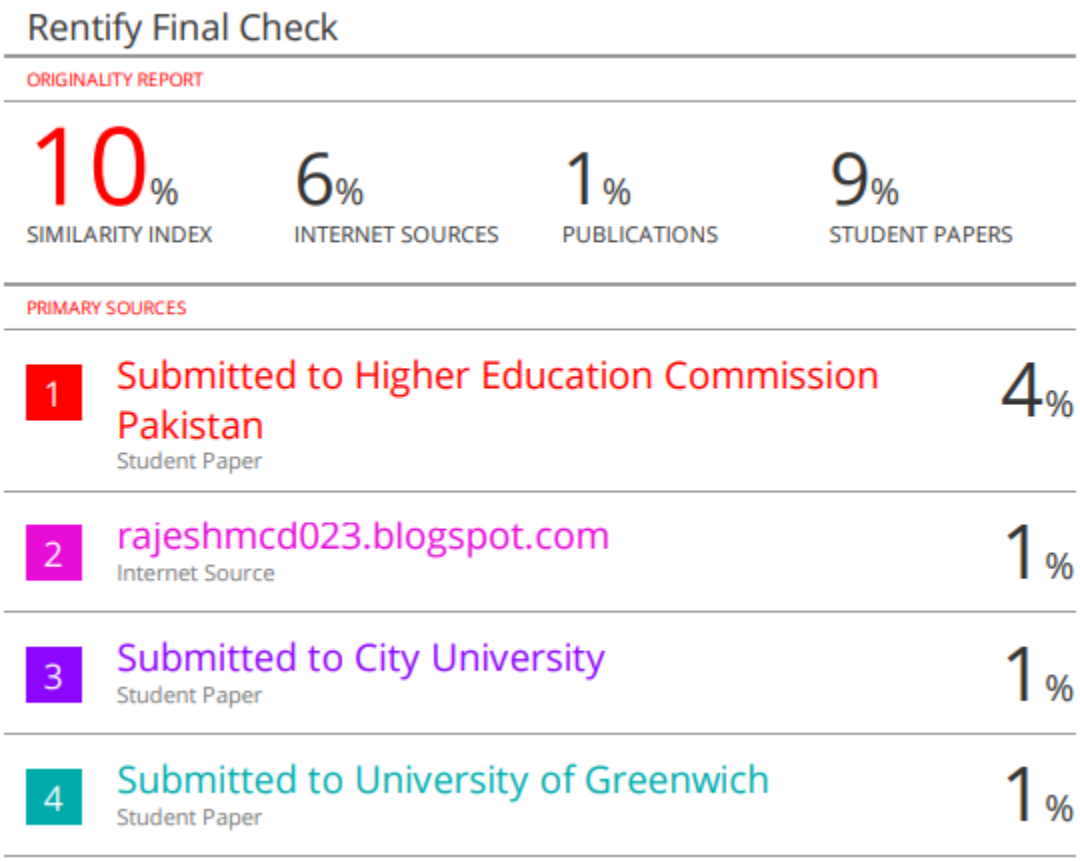

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