MOMENTWALA

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This Project titled "**MOMENTWALA**", submitted by Md. Abdur Rahman, ID NO:162-15-7749 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 1 June 2021.

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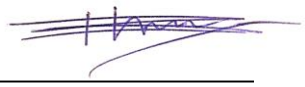

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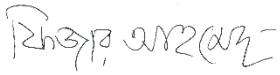

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I hereby declare that, this project has been done by us under the supervision of **Moushumi Zaman Bonny, Assistant Professor, Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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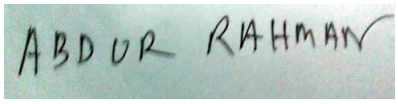

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Finally, I must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

Right now mobile application important stage in online portion. Additionally this is exceptionally demandable and furthermore easy to use for people group's percept. the real life situation can be little different depending on the circumstances. There are huge number of organization build mobile apps. They build application for both plat form mobile platform and also for web platform. Like uber pathao sohoz ride. So my think is all are going those platform. why not me? From this aspect I am going to develop mobile apps and I have a nice idea for photographer. Which thinking outside of the box. Like a photographer have successfully done event by using my mobile application. A user can hire a photographer from apps with their suitable budget. Like when we use ride share apps. Ride share apps mainly connected rider and user that's a nice job and also helpful. My application also connected with user and customer. Mobile application take more and more parts of every ones lives, different for momentwala with different feature begin to complete with existing solutions. By targeting people will more likely join the service since its user are primarily other people from the same environment. My app Momentwala will be unique application that would take benefited.

The realization of my project will go through the conceptual phase and then development phase.

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CHAPTER 1
INTRODUCTION

1.1 **Introduction**

Mobile App service which is connected with internet. Momentwala allows photographers to connect with clients throughout the Bangladesh. This app is for photographer and people looking to hire a photographer in their area. Momentwala photographers are being take on by nearly all service. If a photographer love to taking pictures then he can turn his photo taking interest, talent , and hobby into a photography business. Basically there are different different type of photography have in the world. So I pick five type of photography for my project app.

- Wedding photography
- Portrait photography
- Faison photography
- Architectural Photography
- Event photography

In this project I mainly focus and implement those type of Photography. User can hire photographer using my mobile application and my app deliver their sweet moments.

1.2 **Motivation**

In this time mobile application is the most famous and necessity for online platform. From online I can see how much cost to hire a photographer. From online basic photographer charge between $25 and 500$ per hour. Price largely depend on their skill and what type of photography event they shooting. Extra cost include travel time prints digital image file and photo editing fees. So this is very highly profitable business platform. The key success in a photography business is all about marketing. You can't take and get paid for photos if no one hires you.

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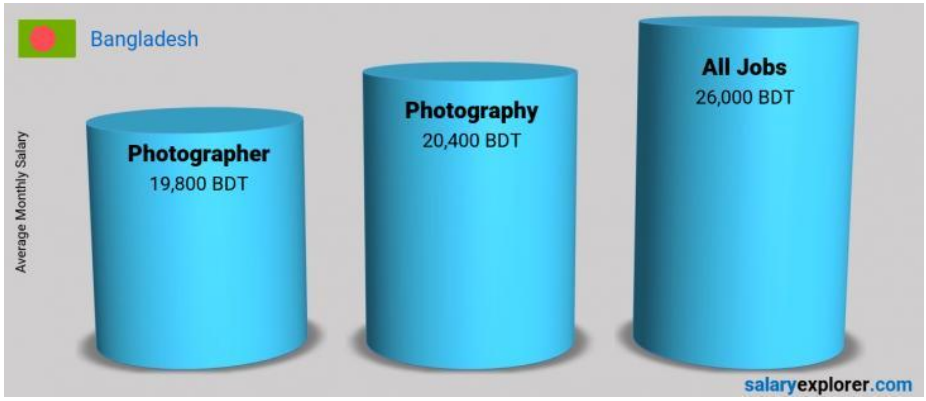


Fig 1.1: Salary growth and income in Bangladesh [1]

As the economy of Bangladesh is growing and so its demand for "commercial photographers in Bangladesh [4].

1.3 **Objectives**

My project objective is to solve various problems through our system like:

- Easy create account and easy login system.
- User friendly app interface.
- Easy to access user items.
- Secure payment system.
- Secure identity System.
- Search for photographer.
- View application Statistic.
- Report/Review for photographers.

1.4 **Expected Outcomes**

I am going to build android and IOS based mobile application. After build process complete the users can be used for hiring photographer, which available on my application. First of all customer enter this application they can view and search

photographer list. If customer interest to selected any photographer that's why they need to create an account (basically I am using Integrating Google Sign-In to create customers account). If user hire anything using this application, he/she needs login first. Then user choose his suitable photographer and add to cart And also user can print their personal photo with low cost. When user confirm he/she can choose his/her preferable payment system, like Nagad, Bkash, DBBL, Visa, cash on payment.

1.5 **Project Management and Finance**

Project management and finance may be a method it has planning, budgeting, internal control , accounting , auditing monetary reporting , procure and physical activity of a project so as a effectively manage project resources and reach project objectives. . I already said that I build android and iso application that is functioning. For this project I need to massive data server that the huge cost of my project. After build this project estimate cost of a big amount finance for this project every part [8].

1.6 **Report layout**

Chapter one focuses for illustrated the presentation to the project with objective , motivation, predicated outcome and also finance and management ,additionally this segment describe the whole layout of this report.

In chapter two presents the terminologies and dialogue on what already carried out via way of means means of the concerning area. Then the later segment of this second chapter shows the scope of the problem and fairly final, the foundation impediments or challenge of this project are explained.

Chapter three is design to describe the requirement speciation, describing on the commercial technique model, requirement collection and analysis, use case model and design model requirement.

Chapter four talk with design specification like front end design, back end design and UI/UX design for project.
Chapter five display that implementation and testing of the project. And show the project result.

Chapter six pointed about impact on society, environment and sustainability .
In this project how to impact on society and environment good or bad discuss about the chapter.

In chapter seven provides conclusion and further improvement of my project.

CHAPTER 2
BACKGROUND

2.1 Terminologies

In this section we are able to discuss related work field, comparative analysis, scope of the trouble and challenge about my project. In related work section I will be able to discuss about my project similar which is already done. But to be honest my project related work not much done in the field. In demanding sisutations section I will able discuss how to conquer from difficult problems.

2.2 Related Works

I am working with photography project which is operate by using mobile application. Many of big company big name project already perform worldwide in this time. Some of are shown in table 2.1:

Table 2.2.1: Some list worldwide [1]

No	Name	Founded
1	Alamy	15th September 1999
2	500px	31st October 2009
3	Shutterstock	1st April 2003
4	Getty images	14th march 1995
5	stocky	2014

2.3 Comparative Analysis

Day by day we're becoming digitalized and upgraded. For this reason I try to developed this apps for reduce time and user get much benefited. In this period people tries to save time . so they are down to net and virtual gadget's for less complicated their life. For this reason my app is one of the massive possibility for any varieties of business. We can see in (2.1) table there are lots of big name and many organization in small time. They are dominating in world wide. So I also follow that's process and work with same process. I am seeking to construct and

developed android and IOS platform mobile application which provide B2C system [7].

2.4 Scope of the Problem

In this section I am trying to discuss about future of my project. I try to served to people with different different item in Bangladesh by using my application. we know Bangladesh is small country but in this country there are lots of opportunity. When people need photographer with our application we make sure that we are provides best solution.

- To use this user have must android device
- The lower version of android user can't use my app
- If user don't have account they can't connect our photographer.
- Money is not fixed for service customer can budgeting with our photographer.
- Ensure client home address.
- All the photographer have train up.

2.5 Challenges

I faced many difficult problem to finish problems to complete my project and I conquer the ones demanding situation. Some principal demanding situations are discussing on this section.

- One of the big challenge to create database.
- Data collection problem
- Quality Cameraman and Quality service
- App size reduce and make sure highest performance
- Photography types setup in different category
- Application version update based on flatter and dart version update for best performance
- we used fire store free version for that reason this application effect on device ram storage.

CHAPTER 3
REQUIREMENT SPECIFICATION
(Project analysis and design)

3.1 Business Process Modeling

BPM (Business Process Modeling) or the system of modeling, analytical illustration or simplification of company commercial enterprise strategies this is the maximum essential a part of handling an powerful commercial enterprise system. The commercial enterprise system software program offers an analytical illustration of the company ás-is strategies and contradicts the' 'to-be strategies to make it greater efficient [14].

'My business process model shown in figure 3.1

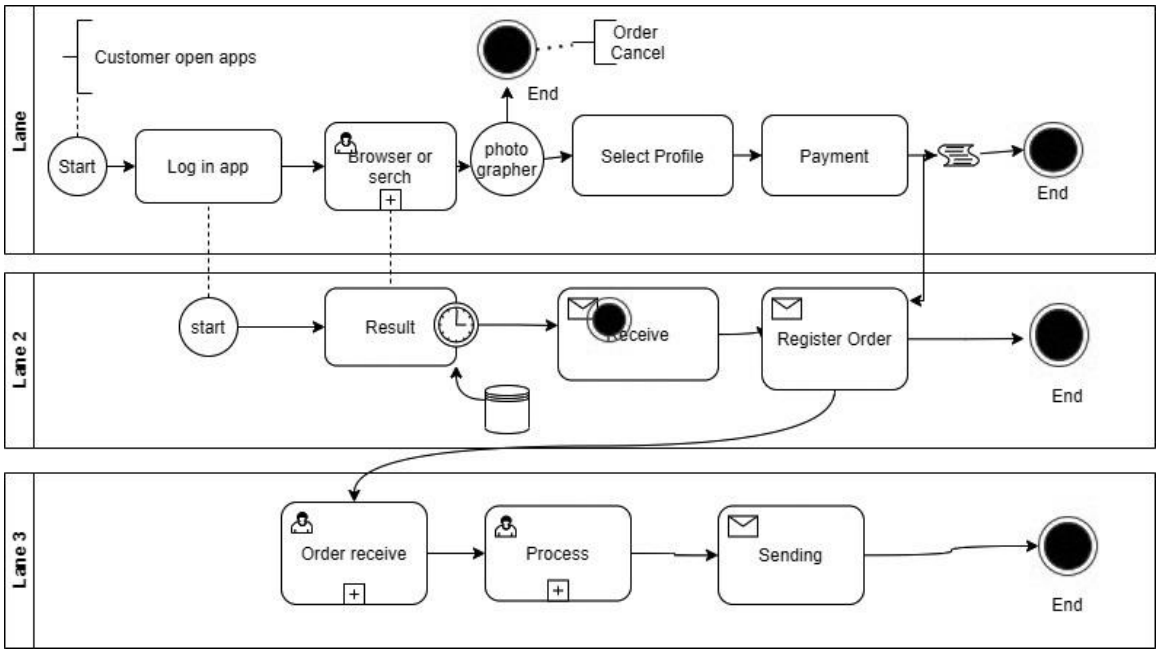


Fig 3.1.1: BPM for Momentwala mobile application

3.2 Use Case Modeling and Description

A use case model is a mode here how different types of users ineract with the system to solve the problem as a such it describes the goals of the user, and the interaction between the user the system and the the required of the system in satisfactory these goals. A use case mode diagram consists of number of elements. The most importan model elements are: use cases , actor and relationship between them.

Use case model representing the external view of the program, and collect that requirement system and identify external and internal factors that influence the system and display the interaction between needs by7 actors.

In figure 3.1 represent my project use case model diagram.

Fig 3.2: Use case model of our system

In my system there are also three type of user. Here have admin, guest user and the regular user admin have full power to control the whole system after login. Admin can control user access in the system. The guest user only access the preview and search option. Also they can sign up for registration as a regular user. After log in regular user can fully use the whole application [10].

3.3 Requirement Collection and Analysis

Requirement analysis encompasses those task that pass into critical the wants or conditions to satisfy for a replecemnt or altered product or project taking account of the presumably conflicting desries of the varied stakeholders, studying, documenting, confirmative and coping with computer code or system desires. In determine :3.3 I show my project requirement analysis . once the need has been recognized desire to be collected from market place.

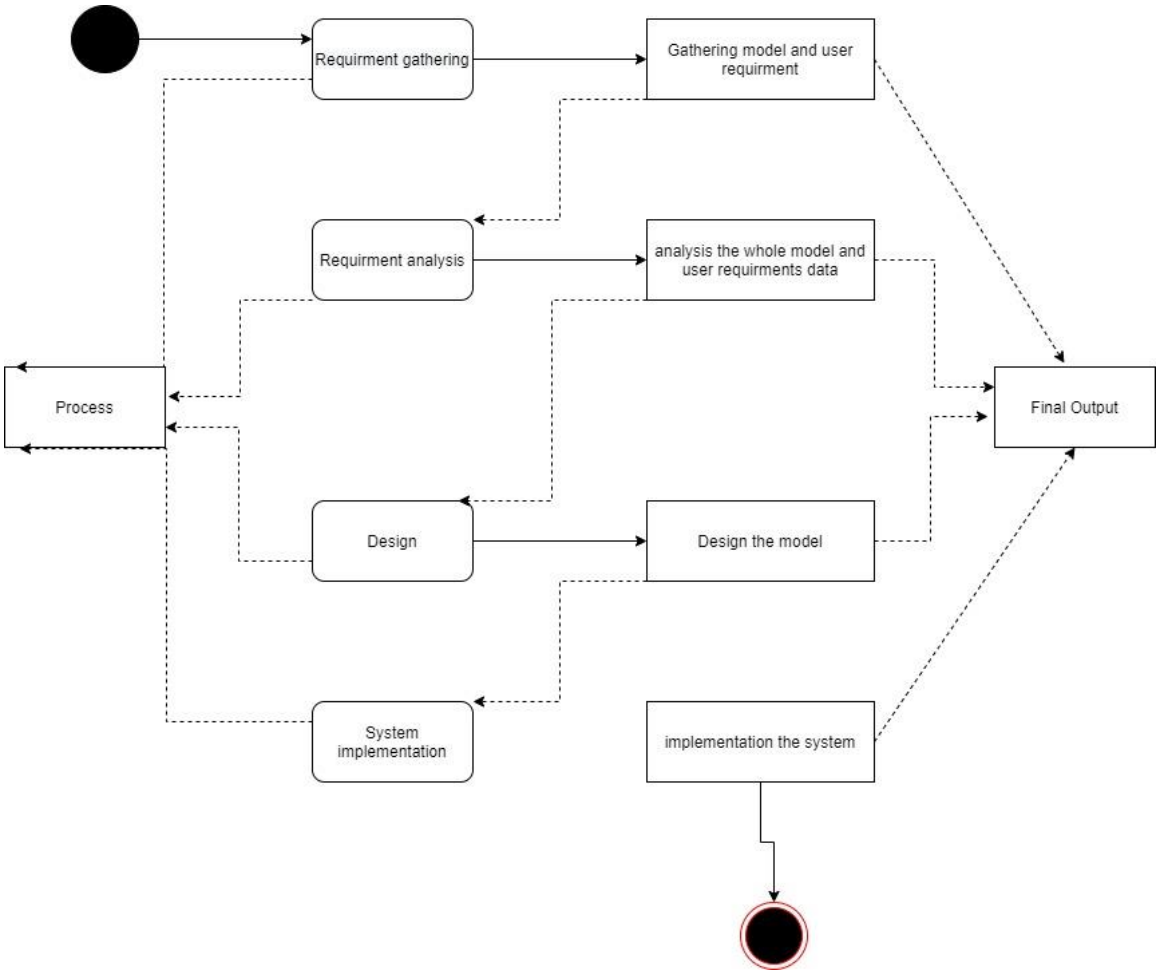


Fig 3.3 Requirement Analysis

3.4 Design Requirement

Design requiremntation are the practical feature that's enable to team to transform ideas into design elements [5].

In figure 3.4 represent my system design requirement's.

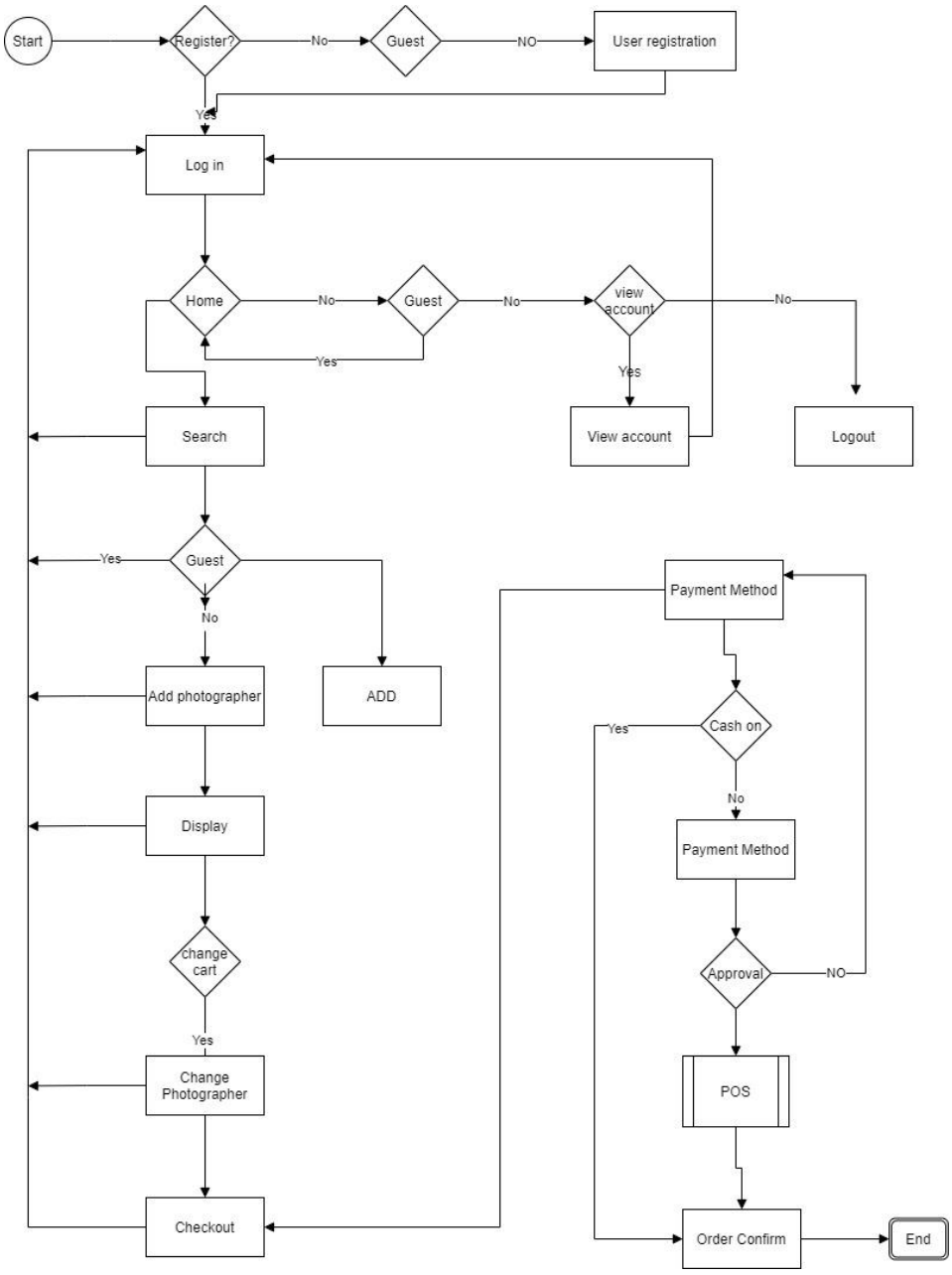


Fig 3.4 Design Requirements of "Momentwala"

3.5 Logical Data Model

The Logical Data Model is employed to outline the structure of knowledge Elements and line relationships between them. The logical model know how version provides more statistics to the abstract know how model components. The benefit of using a logical expertise model is to supply a foundation to make the bottom for the physical version model. How ever the molding shape remains regular . in project we are using two logical data model admin putting and other which shown in figure 3.5 and 3.6

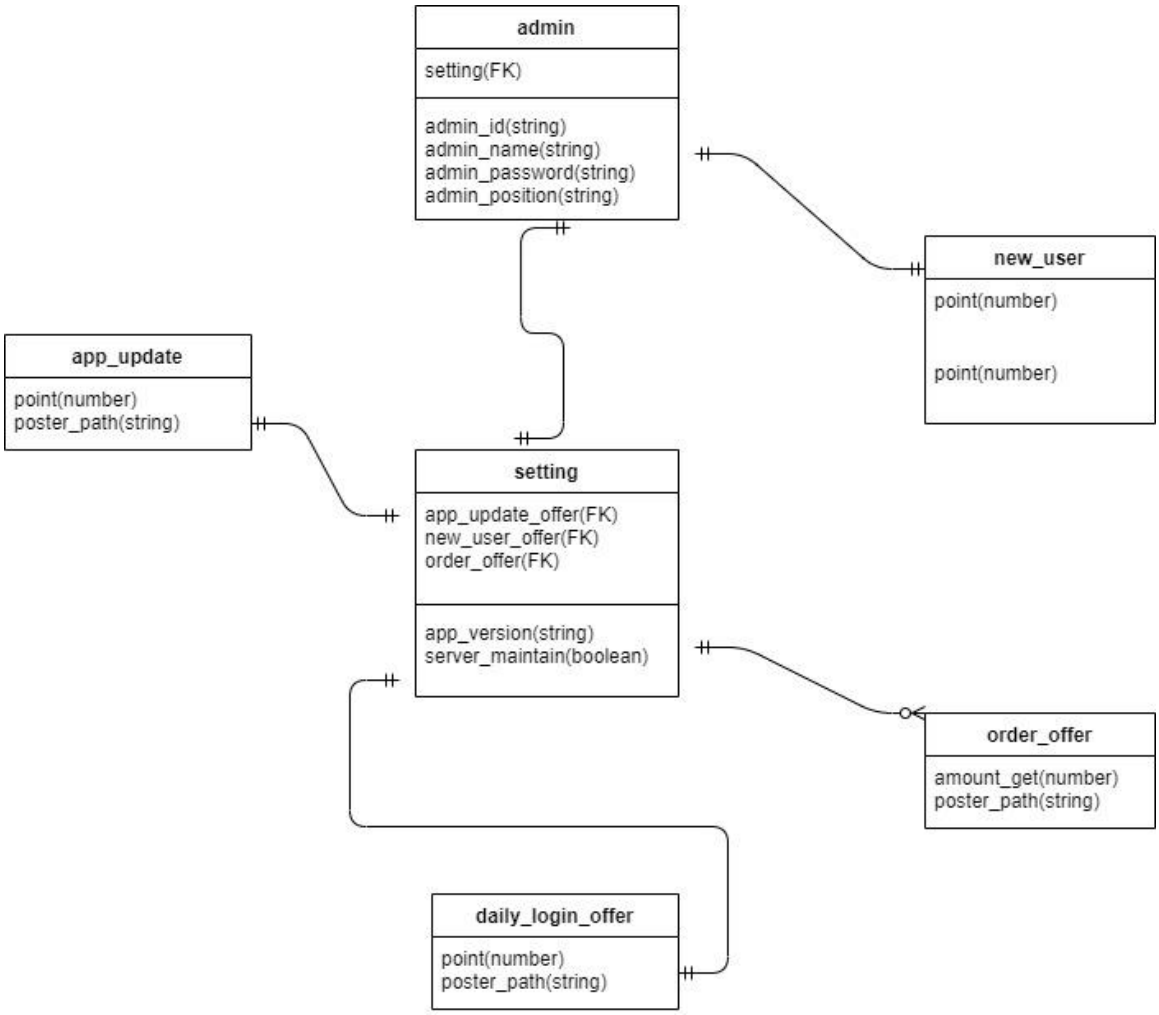


Fig 3.5 Admin Setting Logical Data Model

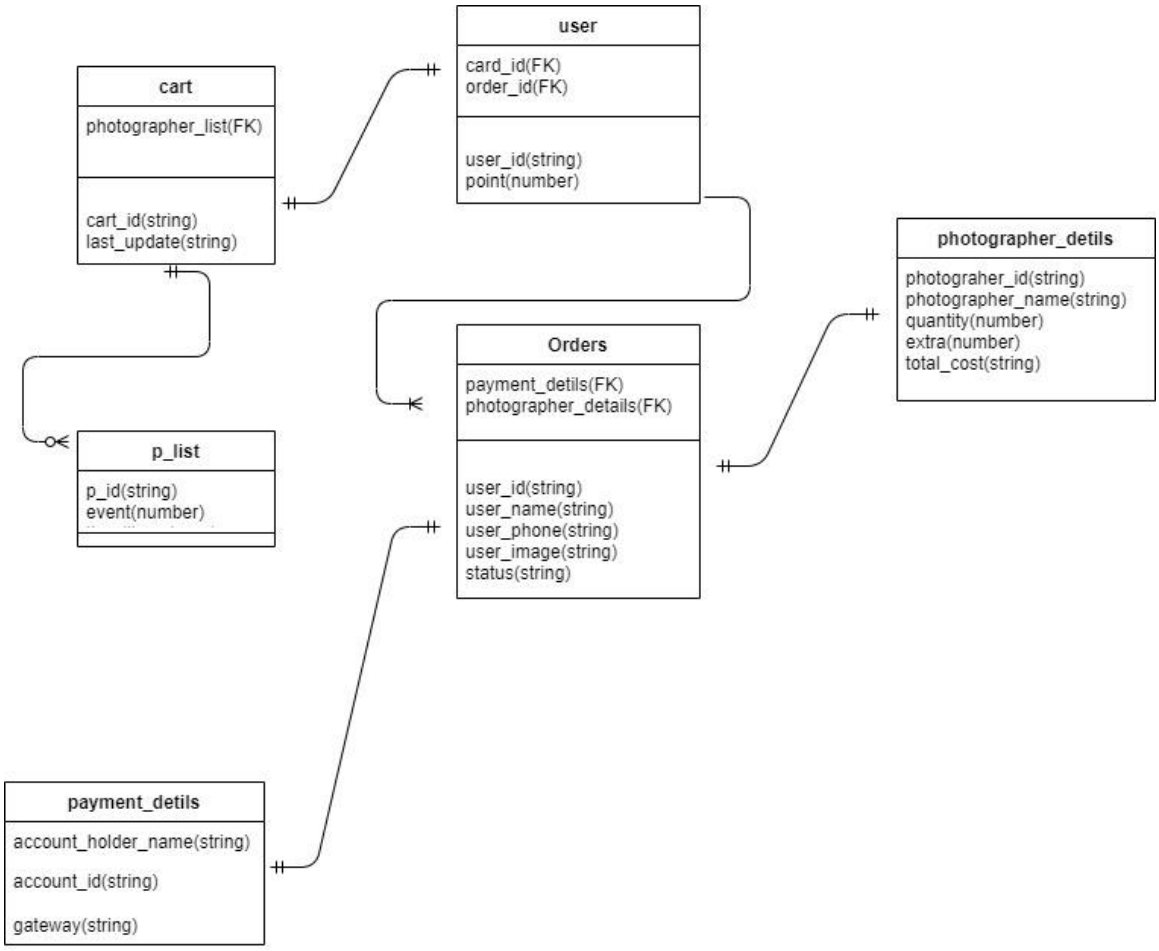


Fig 3.6. Order call Logical Data Model

CHAPTER 4
DESIGN SPECIFICATION

4.1 Front-end Design

Basically I am using adobe XD platform for design the basic front-end application layout. I make a prototype like demo which is looks similar like my app [3].

Fig 4.1 Splash Screen

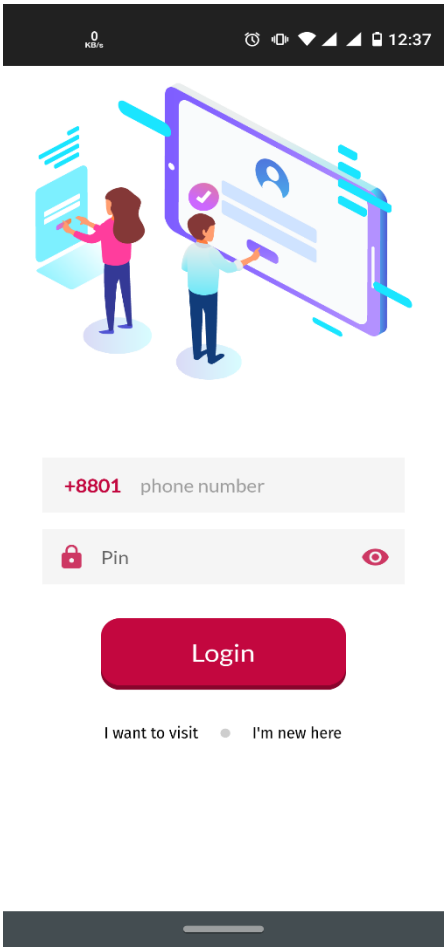


Fig 4.2 Login Page

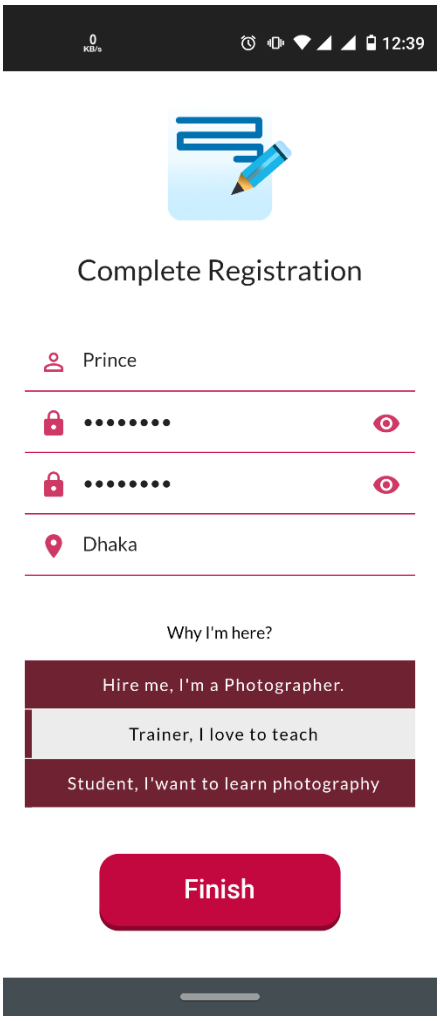


Fig 4.3 Registration Page

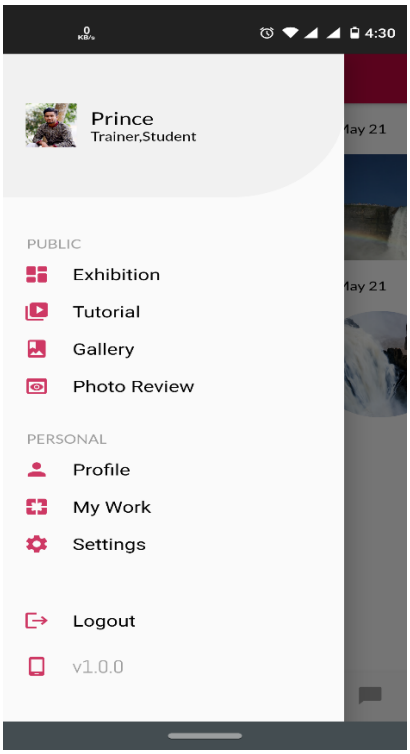


Fig 4.4 Featured

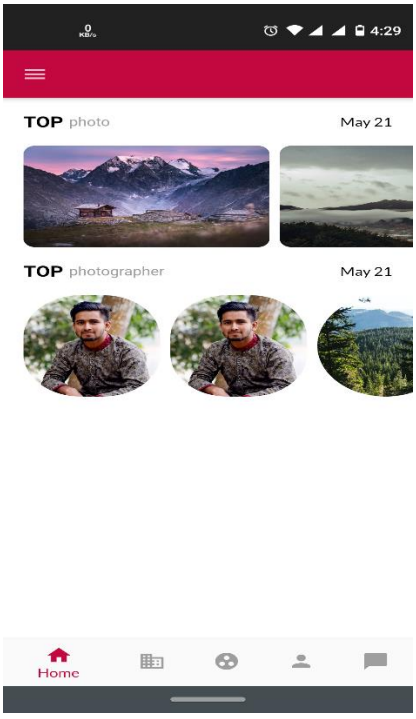


Fig 4.5 Category

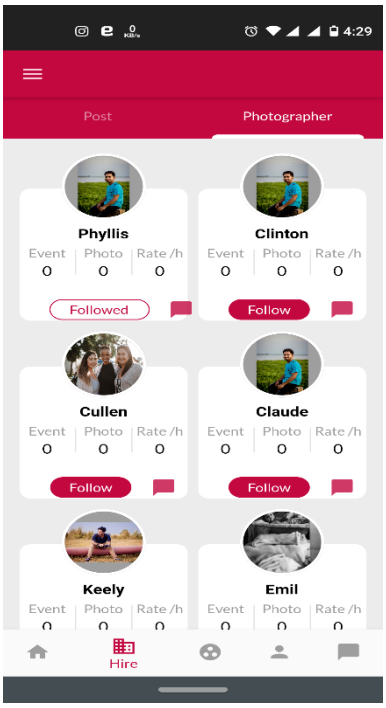


Fig 4.6 Photographer Details

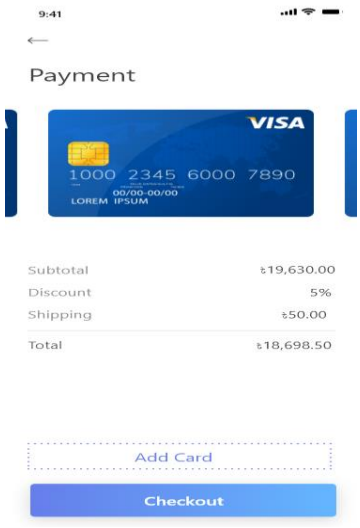


Fig 4.7 Payment Methods

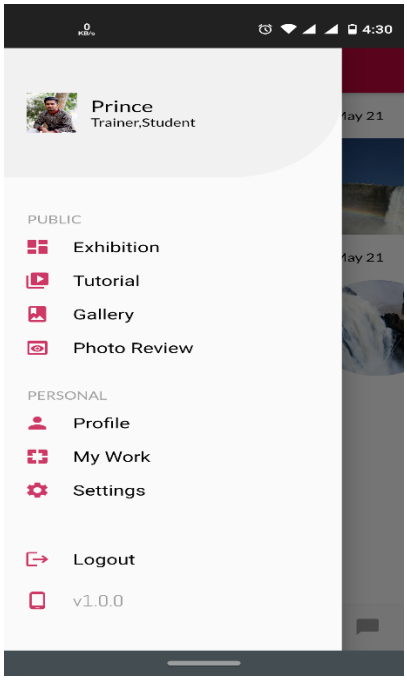

4:30
Prince
Trainer,Student
PUBLIC
Exhibition
Tutorial
Gallery
Photo Review
PERSONAL
Profile
My Work
Settings
Logout
v1.0.0

Fig 4.8 Menu

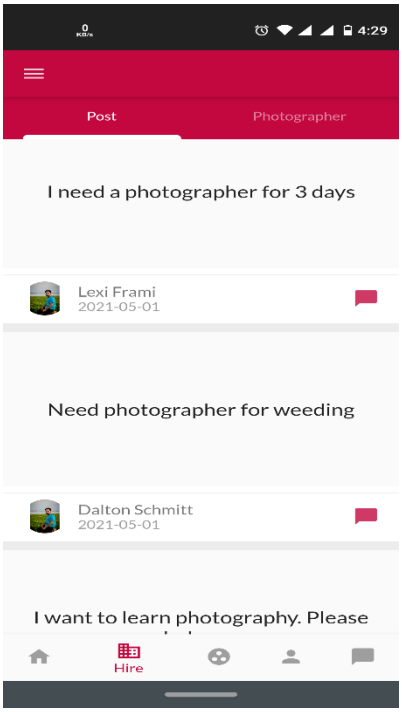

4:29
Post
Photographer
I need a photographer for 3 days
Lexi Frami
2021-05-01
Need photographer for weeding
Dalton Schmitt
2021-05-01
I want to learn photography. Please
Hire

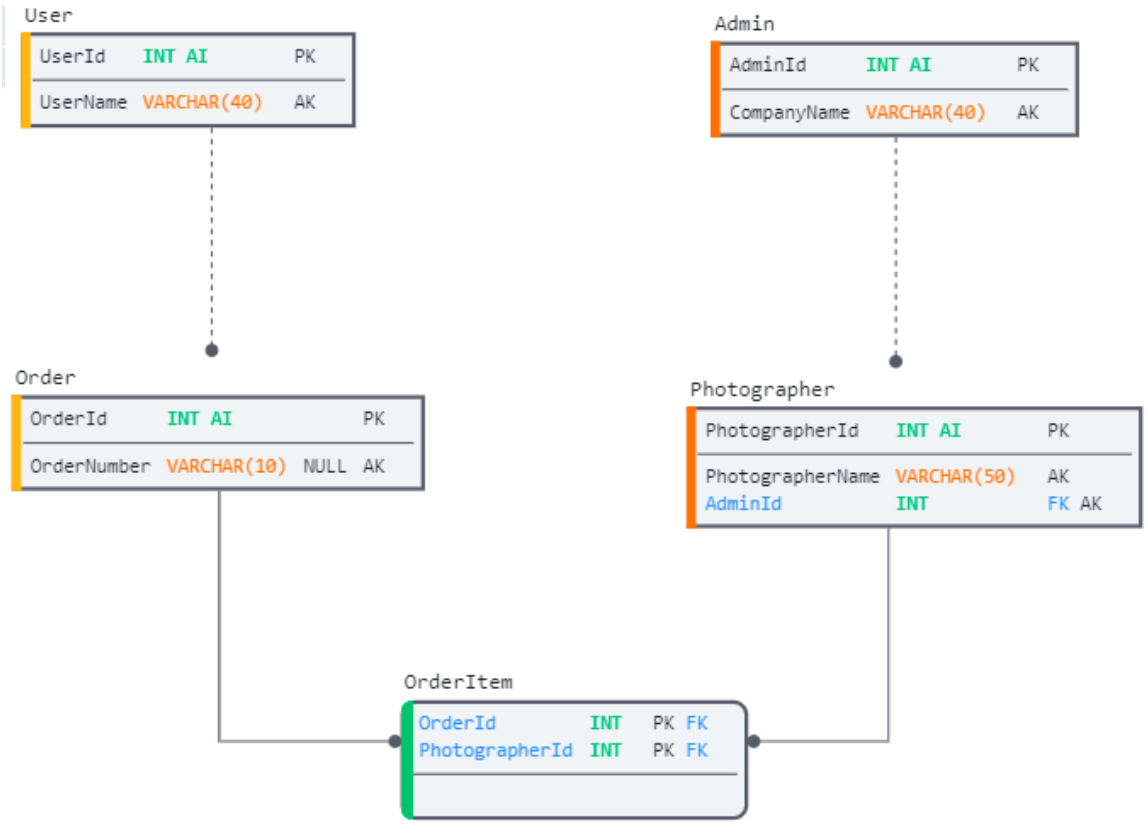
Fig 4.9 Post and Comment

4.2 Back-end Design

In this part I will focus my project database. Here I will represent my database s diagram.

4.2.1 Database

A database s is very important part because of its represent the logical view of entire database. Its helps how to organized the entire database. In the figure 4.2.1 I will show my “MOMENTWALA” project basic sample database .



4.2.2 Entity Relationship Diagram

Entity relationship diagram is a blue print of the database which could allows later be applied as a database. The principle components of ER diagram are: entity set and courting set. In figure 4.2.2 display the system of ER diagram model.

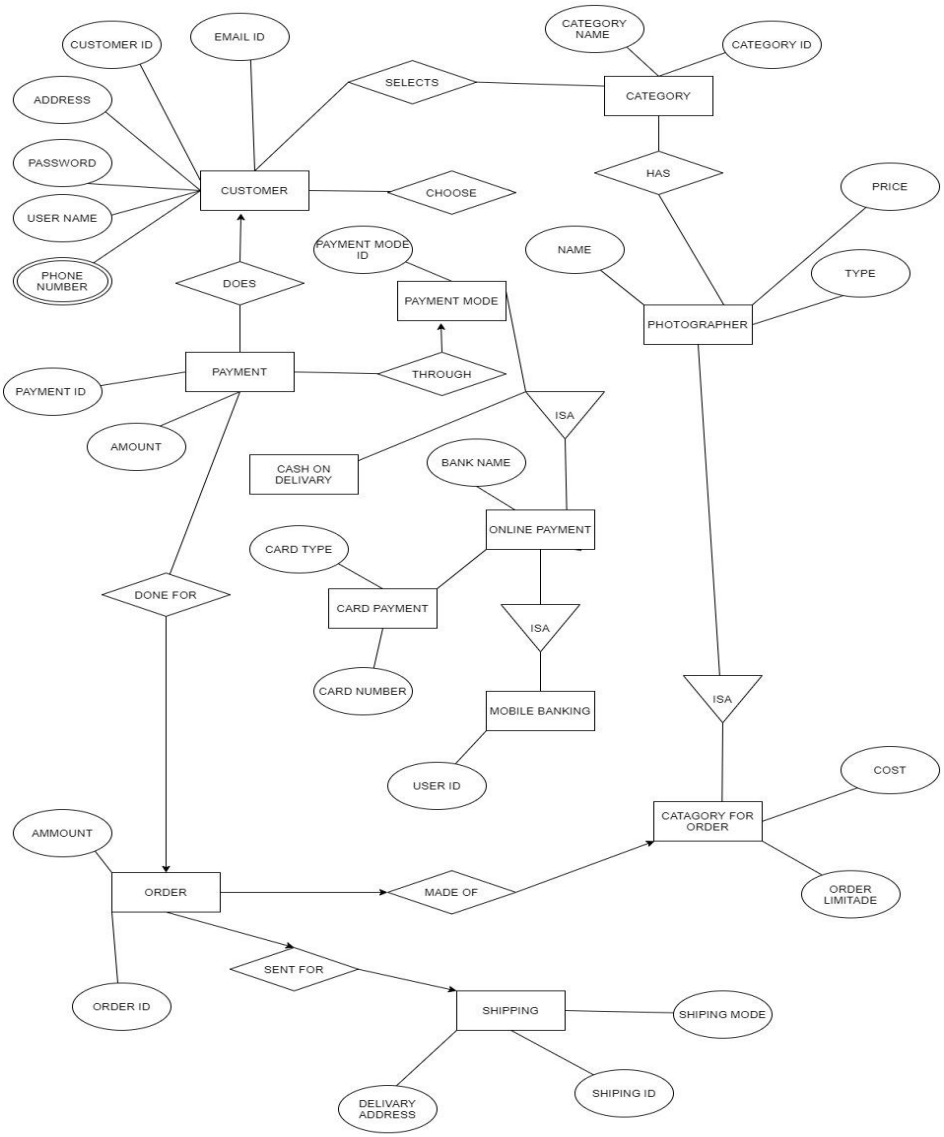


Fig 4.10 Entity Relationship Diagram

4.2.3 System Environment

The Design & Development of "MOMENTWALA" when user connect with internet user can see my apps activities [12].

. And also user can order as desire. In figure 4.2.3

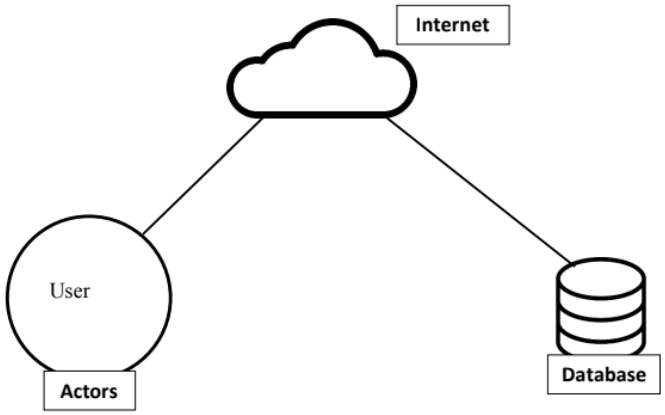


Fig 4.11 Diagram

4.3 Work Environment

After the right evaluation on all essential statistical or theoretical standards and strategies, a list of necessities has been generated that ought to be required for our device implementation Methods.

The probable necessary things are:

4.3.1 Hardware Requirements

- Operating System (Windows 10)
- SSD 128 Gb
- Ram 16 Gb
- Android Emulator/Android Device
- ISO platform

4.3.2 Software Environment

- Dart and Flatter Environment
- Android Studio IDE
- Adobe XD
- Adobe Illustrator 2019
- Adobe Photoshop 2021
- Adobe Premier Pro (Video editor)

CHAPTER 5
IMPLEMENTATION AND TESTING

5.1 Implementation of Database

For storing my data, I using Google cloud fire store as a database. Because it offer actual time data read and write facilities additionally it is straightforward to use. In this section i show my data base model.

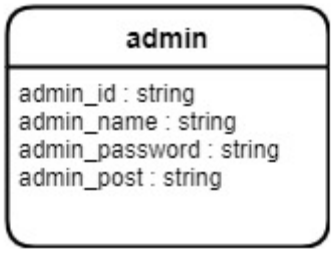


Fig 5.1 Admin model

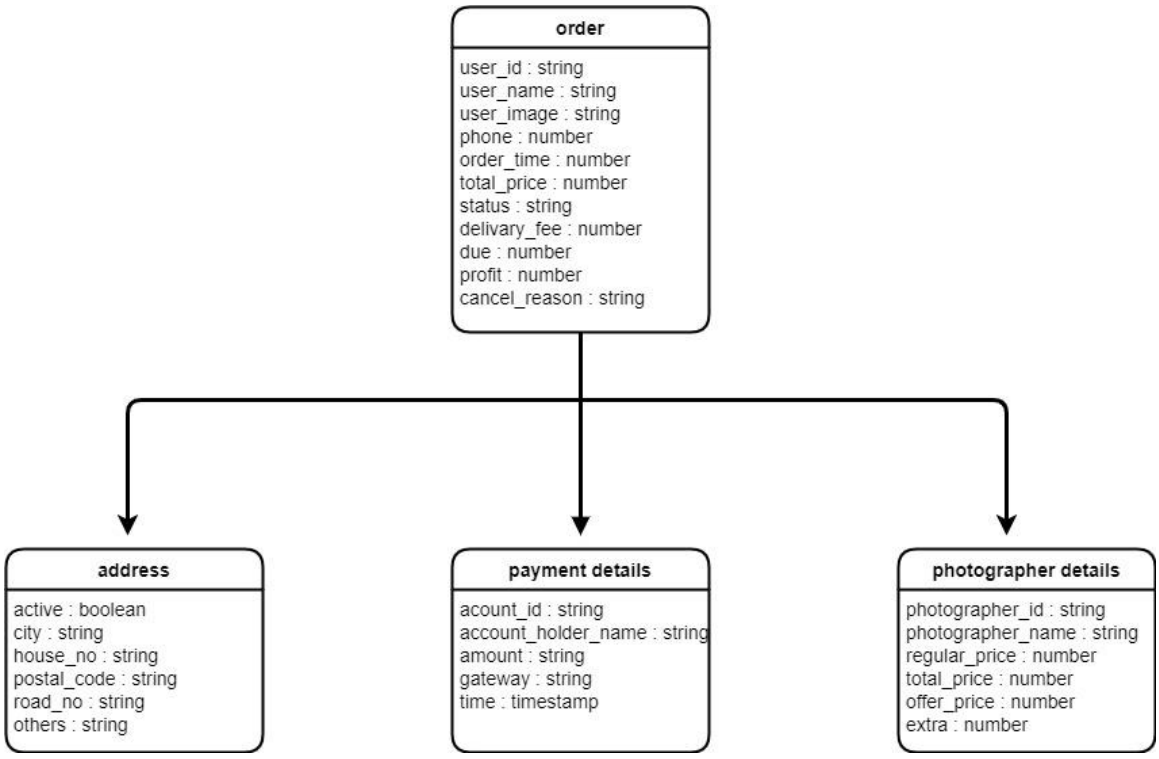


Fig 5.2 Order model

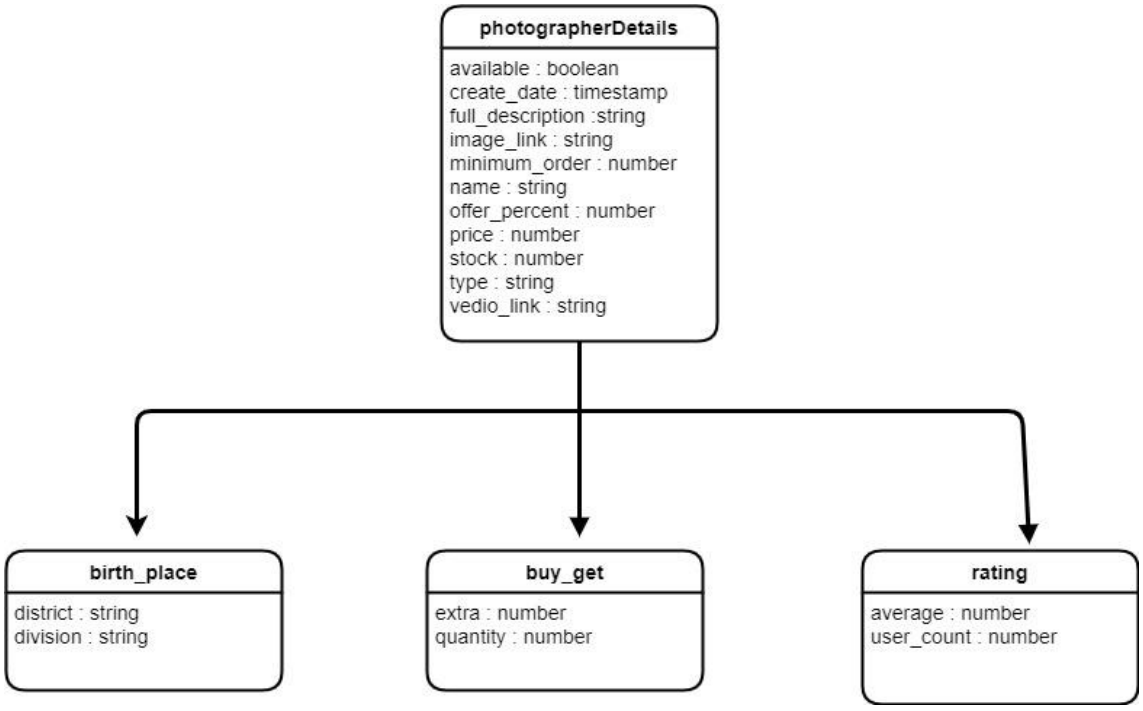


Fig 5.3 Photographer Details Model

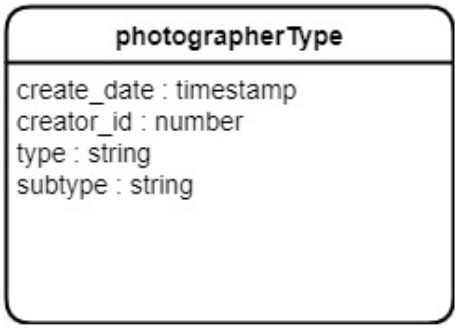


Fig 5.4 Photographer Type Model

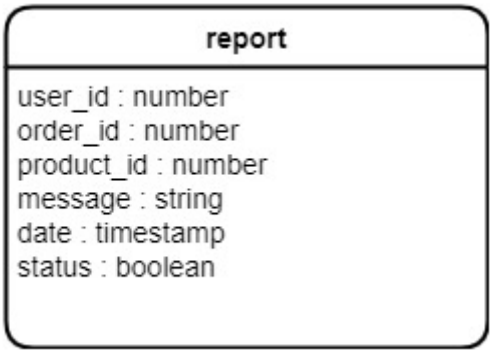


Fig 5.5 Report Model

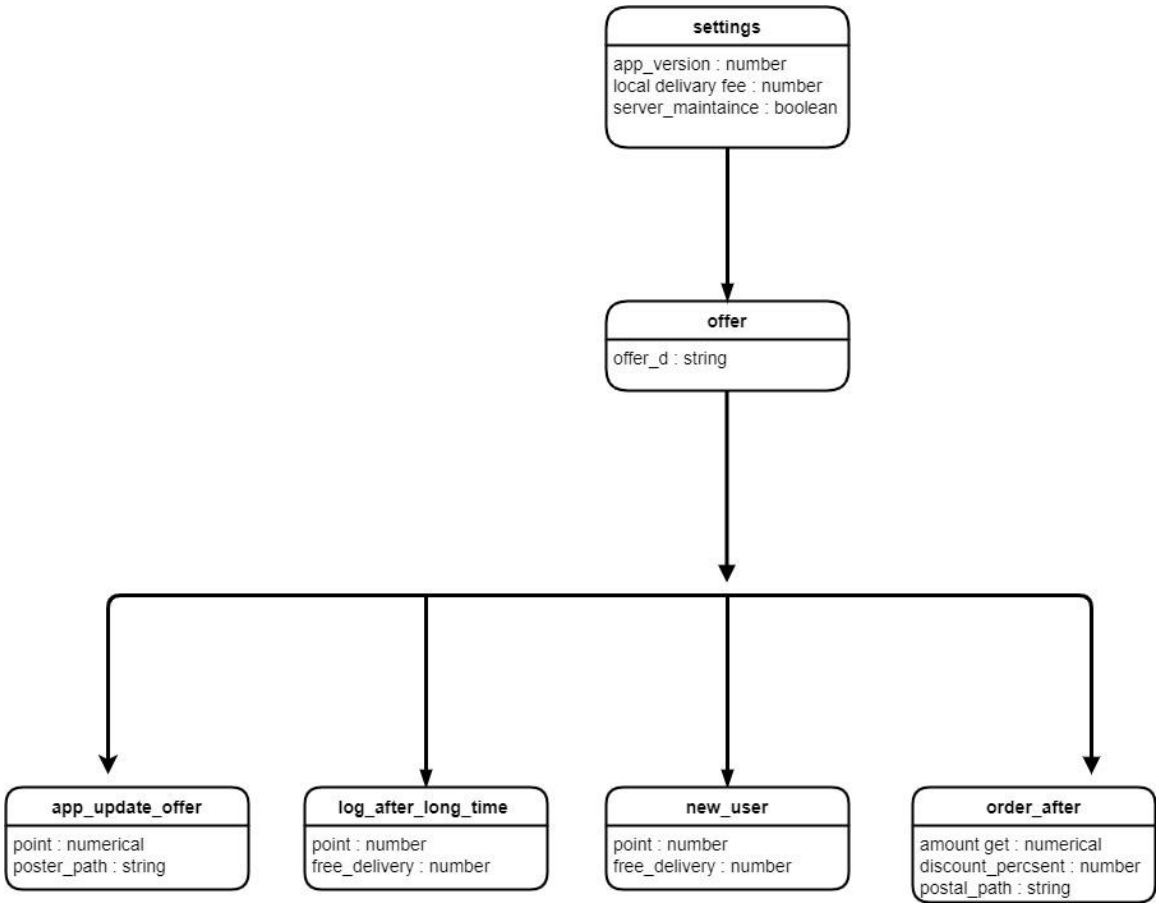


Fig 5.6 Settings Model

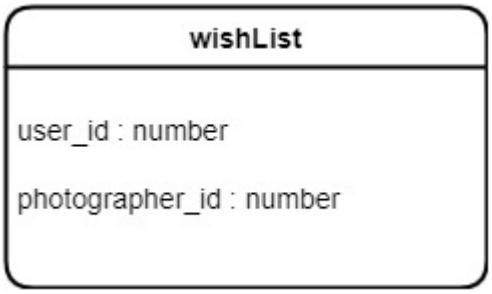


Fig 5.7 Wish List Model

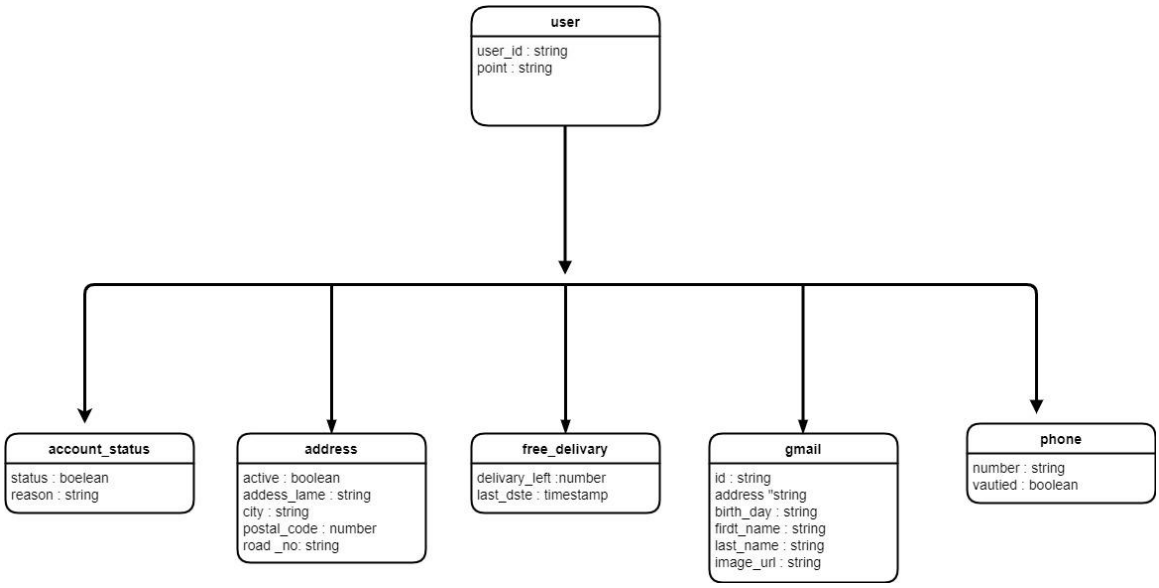


Fig 5.8 Users Model

5.2 Implementation of Front-end Design

In this segment I will providing my application fornt-end-design which I Implemented. this design are given bellow:

5.3 Testing Implementation and Report

Table 1. Test case result

Serial No	Action	Inputs	Expected Output	Actual Output	Result	Comment
1	Log in	Gmail with data connection on	Log in success	Log in success	Pass	
2	Log in	Gmail with data connection on	Log in failed	Log in failed	Pass	

3	Search	Photographer Name	Find success	Find Success	Pass	
4	Search	String	Valid Input	Valid Input	Pass	
5	Search	Integer & SP.char	Invalid Input	Valid Input	Fail	Solved
6	Add to cart	Click Add Button	Product added in cart	Product added in cart	Pass	
7	Click Apply coupon Button	Empty Field	Invalid Input	Invalid Input	Pass	
8	Setting	Dark Theme	Theme change	Theme Not change	Fail	Not solved

5.4 Testing and Integration

System testing may be a framework of the checking in all things in a program input and output. Testing alluded an imperative part any software. In the event that we testing any program ready ton find a program is performed to the user is sweet or terrible. Testing also assure the quality assurance of a computer program. Unit testing is additionally critical for confirm verification coding step during the coding stage there's part of testing but we have test our claim way and reach the goal. When program testing two sorts of mistake will appear which title is sentence structure mistake and logical errors [18].

- Syntax mistake when redressed on the off chance that the program is execute firstly.

- Handel all information unsatisfactory arrange of program articulation etc. there are different stages in any computer program testing . presently portraying in exceptionally without further ado.

Black Box Testing:

Black Box testing is additionally knows as behavior testing. When the usefulness of an application without peering into its inside structure/design/implementation is known as black box testing. In this testing when we grant input and execute the program and donate as any yield at that point gather black box testing. Here have some black box testing.

- At to begin with all necessities and detail are testing.
- When we begin dark box testing at that point analyzer anticipated that all input executed.

White Box Testing:

White box testing could be strategy of program testing to test all inner structure, plan a , coding , branches way or condition. Programing information is additionally basic to implement white box testing. We can not appear the inner factors when white box testing. The test gives a unadulterated thought when we executed the framework. When the bug happen then we expelled all information.

Stress Testing :

The fundamental reason of push testing how to moving forward of candidate framework does not crash when the top loads happen. We make a tall volume of information with a really brief of instant time. A tall volume of exercise happens in shoots when the recreate online environment. A unadulated thought when we execute framework. When the bug happens then we expelled all information.

CHAPTER 6
CONCLUSION AND FUTUERE SCOPE

6.1 Discussion and Conclusion

The project “Momentwala” is developed using flutter programing language, android studio, Xml, database and lot of thing. That’s why at the same time I can build android and ISO platform. And also I use fire Base database which give real time data that’s why this system could not bad effects in users. I believed that my application can fill ups user needs what’s they need. So in future I will be live in Google play store. [19].

6.2 Scope for Further Developments

Here some future developments are given bellow....

- Add dark theme
- Add training session for new photographer
- Voice search
- Chat bot
- Premium profile
- Rating system imbedded according to the users satisfaction.
- Add Bengali language
- The covering access can also be increased
- A part from android it can also be made for windows.
- Navigation system can also be integrated for a particular place.

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