Software Requirements

Specification

For

DrukCode

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31/03/2021

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1. Introduction

1.1 Purpose

The main purpose of this document (SRS) is to get the complete requirements for the first version and vision of application, DrukCode. The SRS document contains the following items:

- Product Description: Purpose, Goals scope.
- Requirements: functional and non-functional requirements.
- System features.

1.2 Scope

a. System Scope

1. User

- View :- Anyone can view the knowledge or information stored about the rituals and requirements.
- Register:- In order to solve and ranked, the user must be registered.
- Log in:- Once the user is registered, they must log in to access the application fully.
- Log out:- After successful requests and approval, the user can log out from the system.
- Question selection:- once the user is registered the user will be allowed to select and solve the question.
- Search:- User can also search the question and attempt it.

2. Admin:

- Admin has the permission to perform CRUD operation for the details of the question.

2. Requirements

a. Functional Requirements

i. user

- View :- Anyone can view the knowledge or information stored about the rituals and requirements.
- Register:- In order to solve and ranked, the user must be registered.
- Log in:- Once the user is registered, they must log in to access the application fully.
- Log out:- After successful requests and approval, the user can log out from the system.
- Question selection:- once the user is registered the user will be allowed to select and solve the question.
- Search:- User can also search the question and attempt it.

ii. Admin:

- Admin has the permission to perform CRUD operation for the details of the question.

b. Non-functional Requirements

Usability requirements

c. Software Requirements

i. **Java jdk 8 and above (version)**
While developing this application, java language will be used of java development kit version 8 and above.

ii. **Android Studio (version 4.1)**
Android studio will mainly be used for building of application on different types of android devices as it provides fast development of application to the developers.

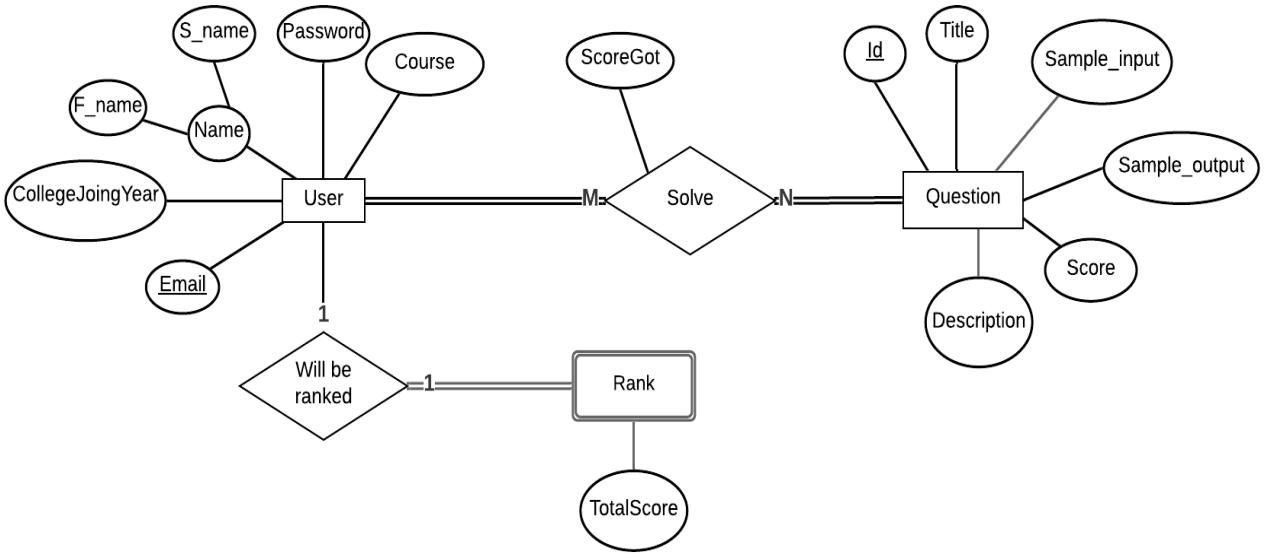
iii. **Firebase (version 19.2.1)**
While developing this application, Firebase database will be used to store data.

3. Hardware Requirements

i. **Laptop**
To be able to develop an mobile application, laptop of minimum 4 GB RAM is required to operate Android Studio but even then the laptop takes a toll on it, for the software to run smoothly 8 GB RAM is required.

4. System Designs

a. ERD(Entity Relationship Diagram)



b. Relational Schema

Admin

Email	F_name	S_name	Password

Question

Id	Title	Description	Sample_input	Sample_output	Score

Solve

Email	Id	ScoreGot

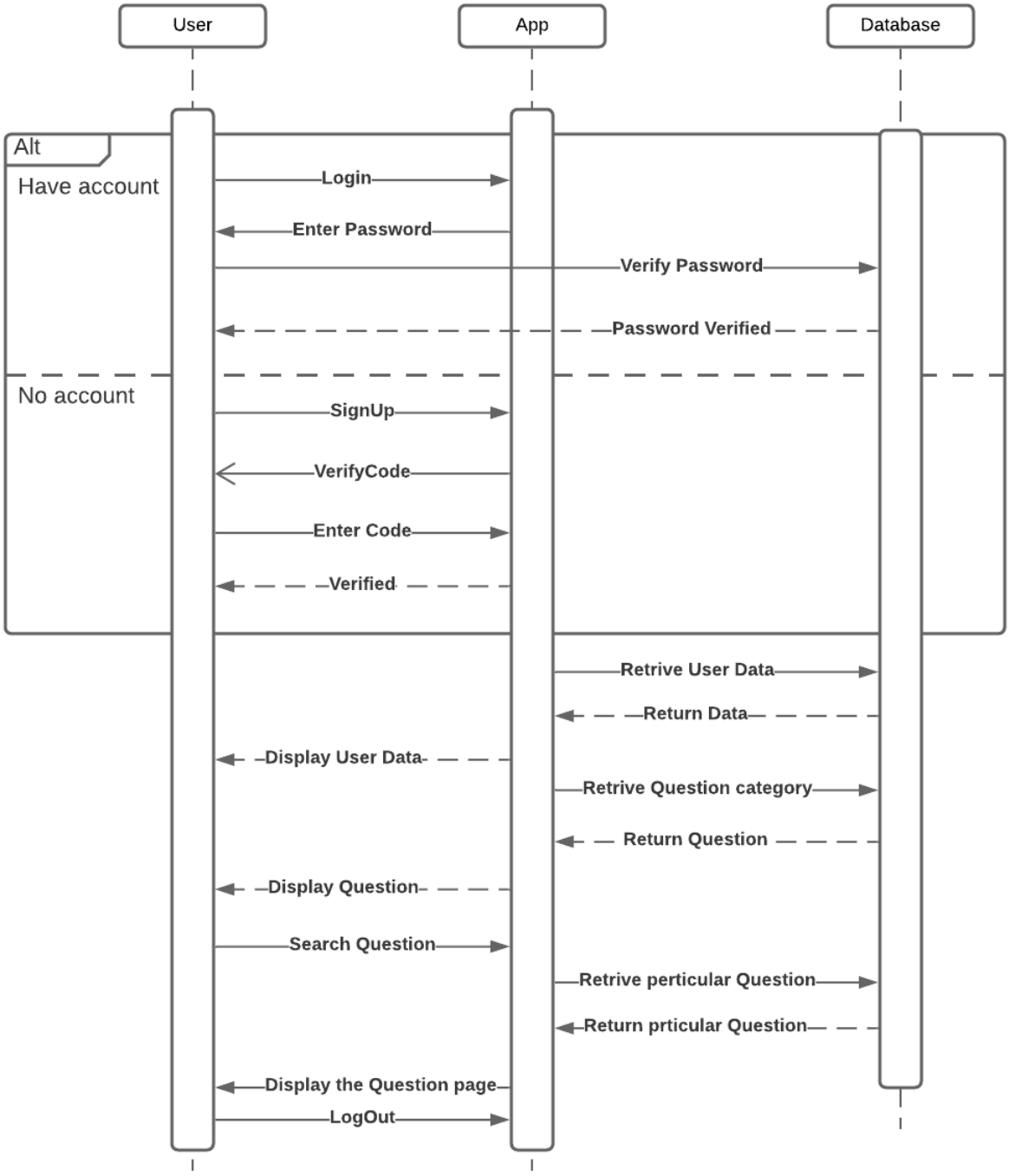
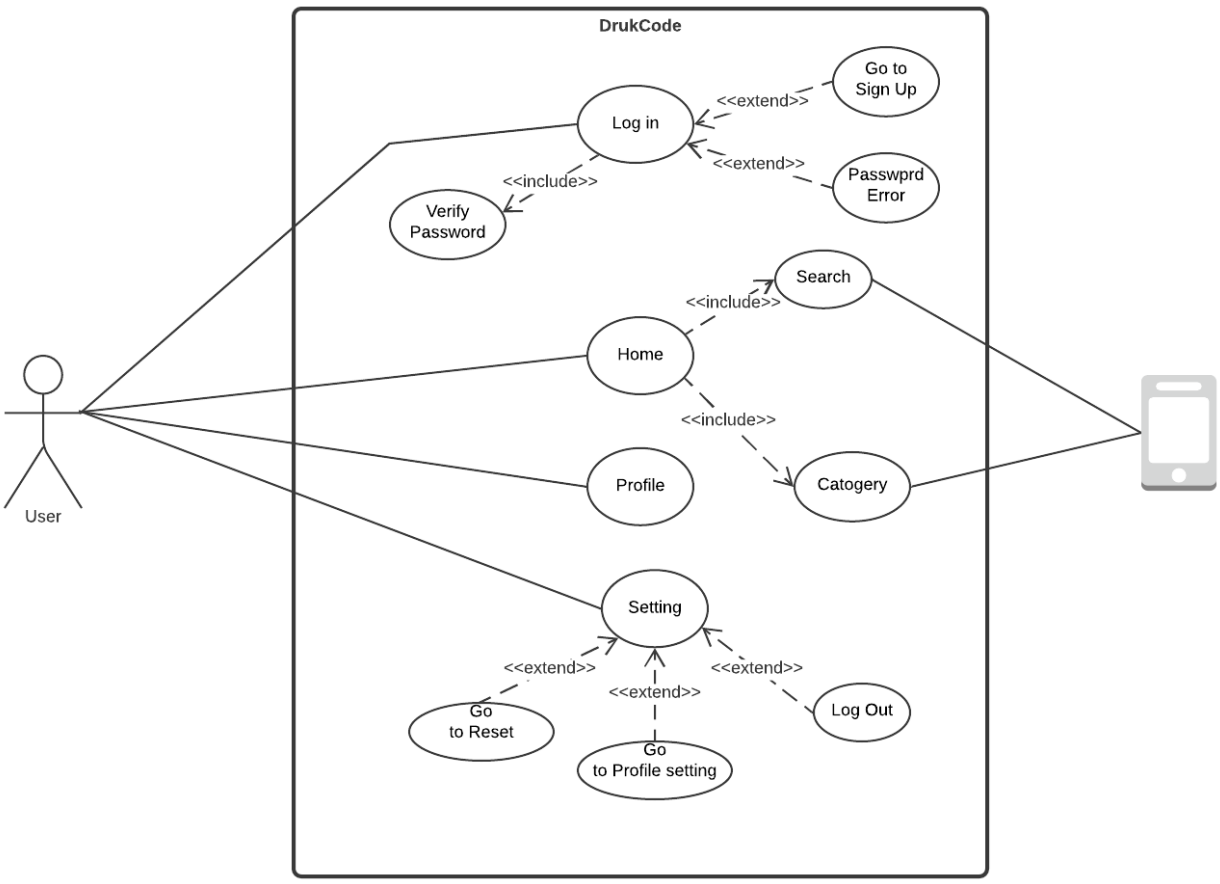
User

Email	F_name	S_name	CollegeJoiningYear	Course	Password

Rank

Email	TotalScore

c. Sequence Diagram



d. Use case Diagram