SOFTWARE REQUIREMENT SPECIFICATIONS

Project Topic: [Information Desk App]

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1. Introduction

The following section provides an overview of derived software requirements specification for the Communication application. To begin with, purpose of the document is presented and scope of the project is specified with the particular focus on what the resultant software will do. The document will also include functional requirement and non-functional requirements.

And also my project focuses on how the effective communication will happen among the students or staffs who are residing in the same place. The main goal of this paper is develop a Communication application in which students/staffs can share the important or urgent information that needs to share to everyone in the campus within a short duration of time. It will also create a learning platform in which students can share important notes related the respective modules and it may lead to better and richer manner in learning.

Purpose

The purpose of the document is to give detailed description of the requirement for the Communication application. It will illustrate the purpose and complete declaration for the development of system. It will also explain system software requirements. This document is primarily intended to be proposed to a customer for its approval and a reference for developing the first version of the system for the developer.

Scope

The major problems during the process of sharing information are like there is a high chances of miscommunication, where in between the important information to be shared may get lost. The scope of my project targets within the boundary of Gyalpozhing College of Information Technology since this application is most likely applicable to the user residing in the college campus. My projects focus on the staffs and students of the Gyalpozhing College of Information Technology as it is important as well as necessary for both the staff and students to stay updated to the latest news related to the college.

2. Requirements

a. Functional Requirements

I. User Registration
When a new user uses this application they need to register to the system firstly. And then user can register as student or lecturer. User will need to provide information such as name, gender, phone number, course, email address, and password.

II. User Profile
User profile for both student and lecturer can be edited once they have logged in to this application after registration.

III. Post

User can post the important information that need to be shared in this application where the entire registered user can view the posted information and it can have reached to all the registered users.

IV. Notification

User will get notification on every new post in this communication app where the information that has been posted.

V. Delete posts

Here a user can delete the posts that they have been posted like if the post is not relevant or required to be shared then they can delete it.

VI. Log Out

Registered user can log out of the app when desired.

b. Non-functional Requirements

I. Reliability

The Information Desk Application will provides an easy platform for the staffs and students who were residing in Gyalpozhing College of Information Technology campus, where they can keep updated with latest information that has been posted through this application.

II. Usability

Once a user registers to this application they can able to view the post that has been already posted in this app and make it user friendly where all the users can use this app as they desired.

III. Supportability

This application can be installed in all kind of android versions and smartphones, where the different size of smartphones that they have may not affect the performance of the application.

IV. Performance

In this application once a registered user gets into the app they can directly view the post like the latest information or news that they have been shared. Moreover, by accessing this application it can keep all the registered user updated residing in the area and it acts as an interface between the students and staffs.

c. Software Requirements

App Development Tools

- Java SE jdk1.8.0_111 and above
- Android SDK-25 and above
- Android Studio version 2.3.3 and above
- Firebase
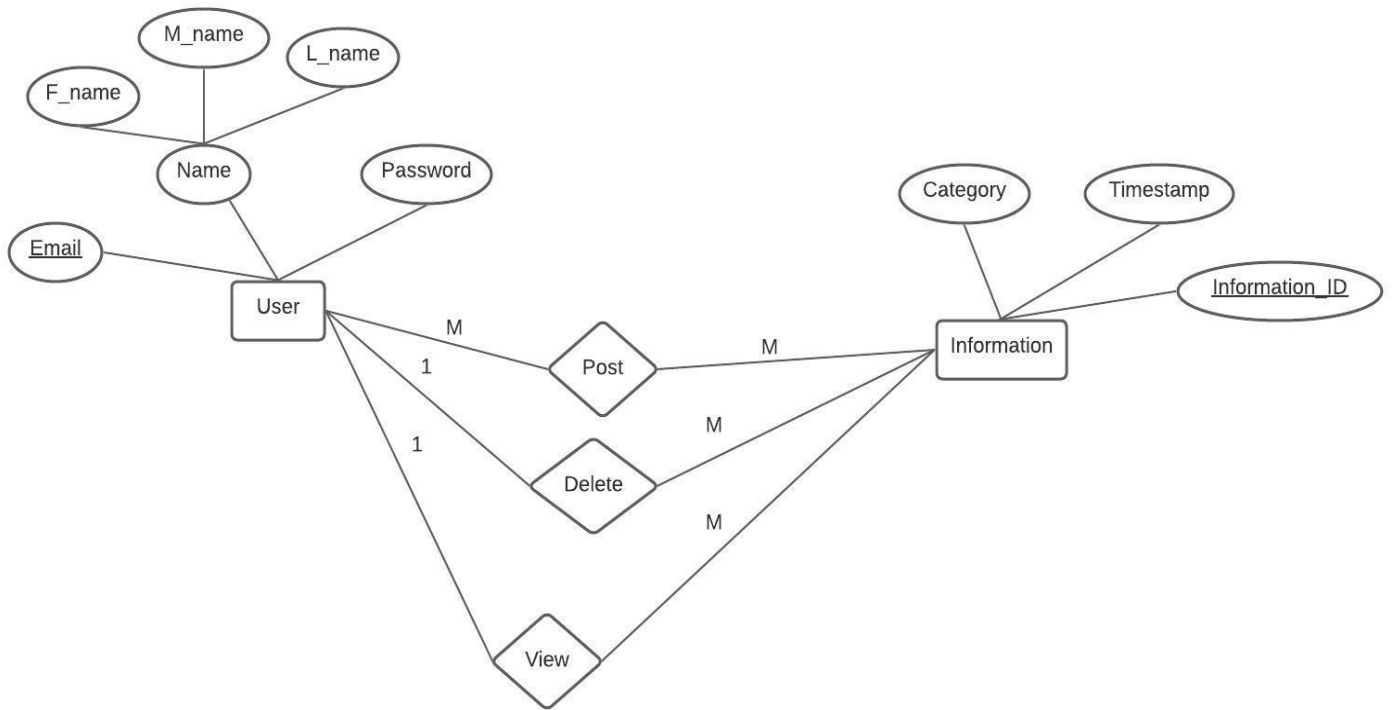
Documentation and Design Tools

- Latex
- MS Word
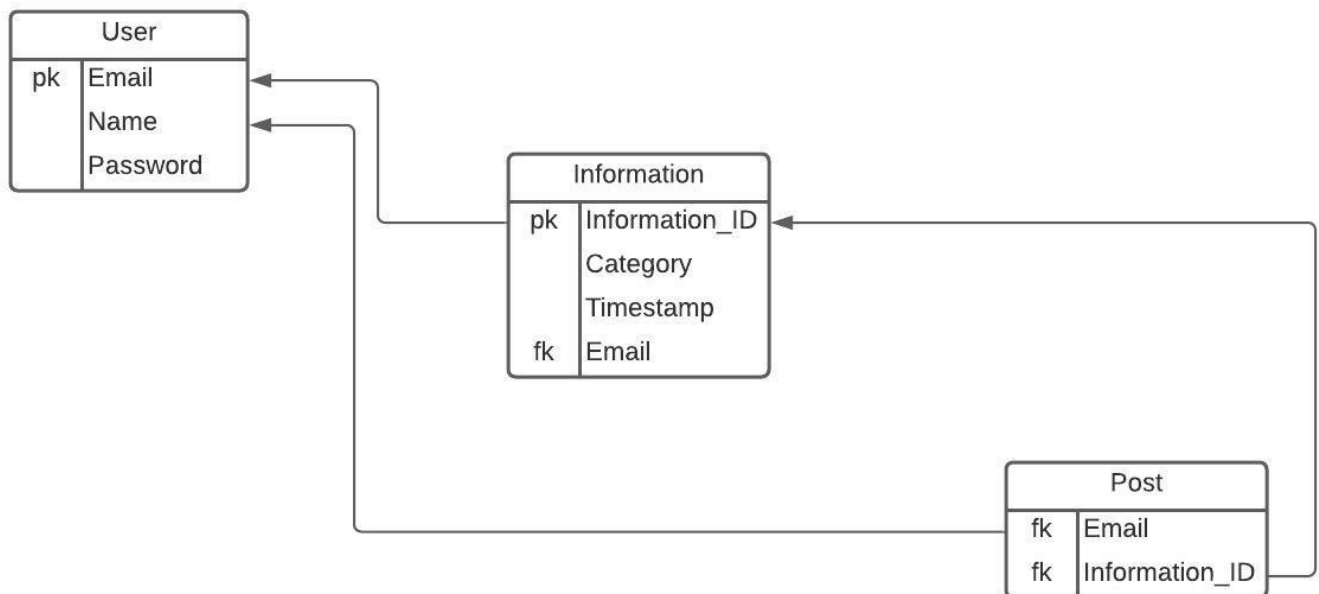- Adobe XD (UI Design)

3. Hardware Requirements

- Processor: dual core 64-bit, 2GHz intel core i3
- RAM: 4GB
- Hard disk Space: 500Mb and 1GB for android SDK
- Android OS 2.3("Gingerbread") or higher.
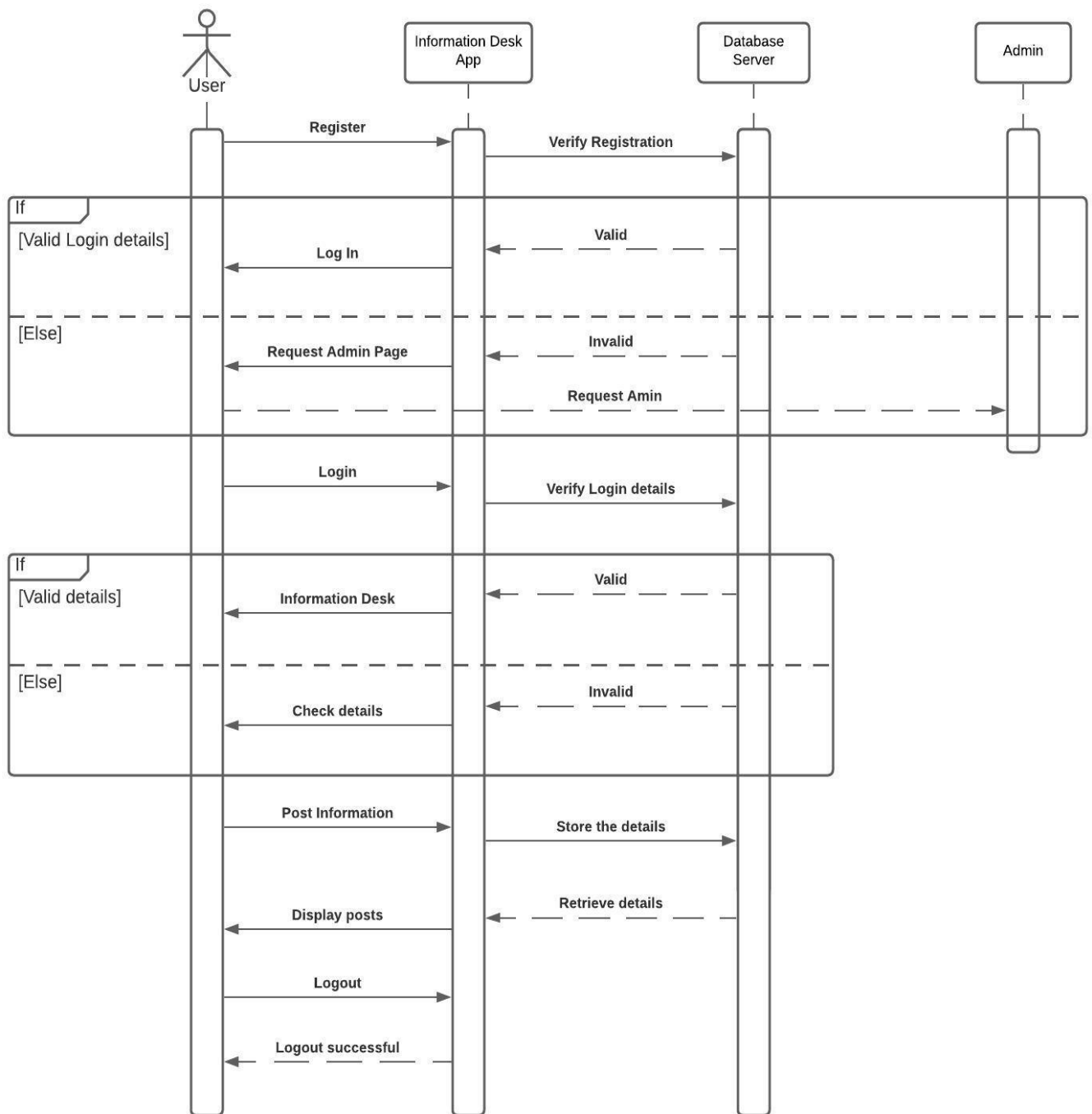- Windows 8 and above

4. System Designs

a) ERD (Entity Relationship Diagram

b) Relational Schema

c) Sequence Diagram

d) Use case Diagram