

Software Requirements Specification For BSc IT

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Table of Contents

- 1) Introduction**
 - a. Purpose**
 - b. Scope**
- 2) Requirements**
 - a. Functional Requirement**
 - i. System Features**
 - b. Non-functional Requirements**
 - c. Software Requirement**
- 3) Hardware requirements**
- 4) User Interface**
- 5) System Designs**
 - a. ERD (Entity Relationship Diagram)**
 - b. Relational Schema**
 - c. Sequence Diagram**

1. Introduction

BSc IT is an application which will contain all the notes about all the modules that were being learned each semester. The idea to develop to this application came when I realized that the files that we have downloaded in our desktop or laptop are not safe because as of desktop, it is being used by many other students and sometimes the files are being deleted mistakenly. As of laptop, sometimes it crashes down, so it is not very safe.

We can still view notes from vlc from our phone but then sometimes vlc would be down and compared to accessing it from an app, it takes time to access it from website.

In this application, when you first download the app and open it, there will be list of semester (till semester 8), you can select the semester that you are in, when you click on the semester, the list of module that will be studied in each semester will be displayed. You can select accordingly and all the notes will be available.

Purpose

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

- Product Description: Purpose, Goals Scope
- Interface Requirements: Hardware and Software interface and user interface.
- System Features

Document Conventions

Fonts: Times New Roman

Size: 12: Main text/Sub-headings

18: Main-headings

Product Scope

- Purpose: To develop an application with all the notes for BSc IT course.
- Benefit: They can refer it anytime and anywhere.
- Objective/Goal: Go paperless
- Scope: The application can be downloaded by anyone but it will only contain the notes which are related to BSc IT course only. The user can download the application and refer all the materials that are presented in the application.

2. Requirements

a. Functional Requirements

i. System Features

View

Any user will be allowed to view the materials that are available in the application.

About

Information regarding the application will be available here.

Help

In case you need some help regarding the application

Feedback

If the user has any suggestion, they can send it.

b. Non-functional requirements

Safety Requirement

The application will be sitting on the user's and in case if the user has lost their old phone or mistakenly uninstalled then they just have to reinstall the application and start using the application.

Security Requirements

Privacy is needed when we have very sensitive data or data which can cause any kind of violation to the users specifically. But this application doesn't take any sensitive data so privacy is not highly considered.

c. Software Requirements

i. Android operating system (Lollipop and above)

Our application is only for android users, the will be installed in user's phone that would be greater than android version 5(Lollipop) and above can embrace our application perfectly

ii. Java jdk 8 and above (version)

While developing this application, we will be using java language using the java development kit version 8 and above.

iii. 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.

iv. Firebase (version 19.2.1)

While developing this application, firebase database will be used to store our data.

3. Hardware Requirements

Developer's Requirement

I. RAM of minimum 4gb (recommended 8gb)

To be able to develop a mobile application, laptop of minimum 4 gb RAM is required. If the laptop is of 4gb RAM, we need a android phone (version 4 and above) to test our application in every phase as running the emulator in the laptop may slow down our laptop.

II. Processor (core i3 and above)

To be able to run the laptop swiftly, the processor of the laptop should be more than core i3.

III. Disk Space (2gb)

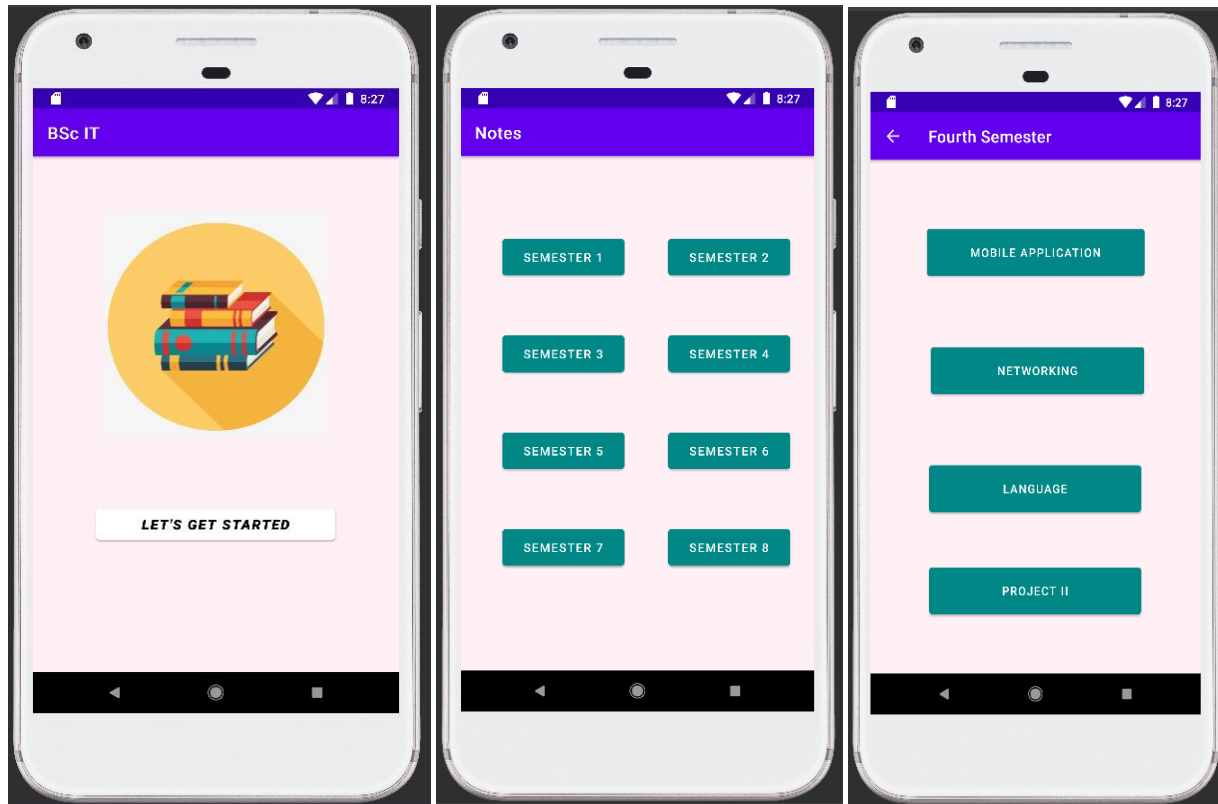
To store the SDK and all the project files, disk space of minimum 2gb is required.

User Requirement

i. Mobile Phone (Lollipop and above)

To be able to use this application, the user must have a android mobile which is of version 5 and above.

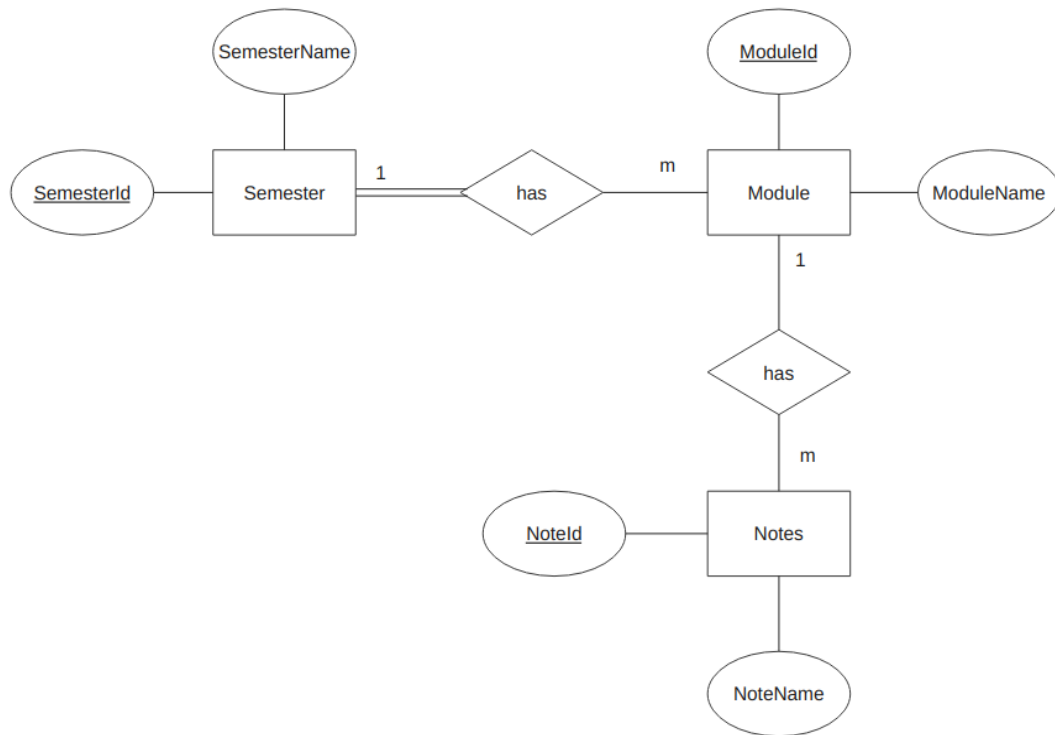
4. User Interface



I am resubmitting the prototype, because I made some changes from what I have last submitted. In the second prototype, the label was supposed to be 'Semesters'.

5. System Designs

a. ERD (Entity Relationship Diagram)



b. Relational Schema

Semester

<u>SemesterId</u>	SemesterName
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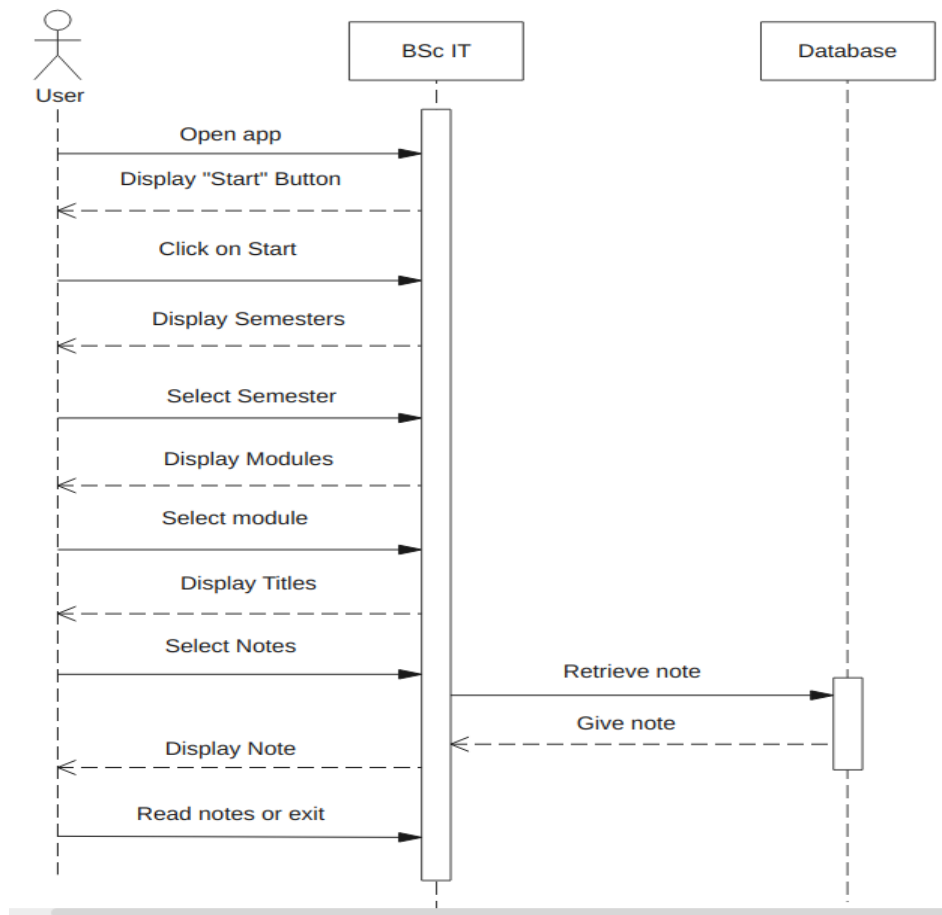
Modules

<u>ModuleId</u>	ModuleName	SemesterId
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Notes

<u>NoteId</u>	NoteTitle	ModuleId
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c. Sequence Diagram



d. Use case Diagram

