FIND MY NOTES APPLICATION

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Under

Of

Internal Guide

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Submitted to



Smt.Chandaben Mohanbhai Patel Institute of

Application

CHARUSAT, Changa



CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

Changa

**Acknowledgement**

Knowledge in itself is a continuous process. At this moment of our substantial enhancement, We rarely find words to express our gratitude towards those who were constantly involved with us.

The completion of any inter disciplinary project depends upon coordination, cooperation and combined efforts of several resources of knowledge, creativity, skill, energy and time. The work being accomplished now, we feel our sincerest urge to recall and knowledge through these lines, trying our best to give full credit wherever it deserves.

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With Sincere Regards, Krishna Saverdekar(21BCA027)

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Project Profile

* **Project Profile**

**Project Name** :Find My Notes

**Type of Application : Android Application**

**Project Description:**

“Find My Notes” is an Android app designed specifically for college students. Its primary purpose is to facilitate easy access to notes and sharing of useful study materials. Whether you’re attending lectures, preparing for exams, or collaborating with classmates, this app streamlines the note-taking process.

**Team Size :** 3 people

**Front End :** Android Software Development Kit (Kotlin)

**Back End :** Firebase

**Tools used :** Android Studio

Introduction to tools

* **Introduction to Tools**

**Front End Tool : Android Studio**

**“**Android SDK**”** is the tool where all the front-end work is done and all the structured query language codes are written in order to implement the system.

The Android SDK is a software development kit that include a comprehensive set of a development tools. These include a debugger, libraries, a handset emulator based on QEMU, documentation, sample code, and tutorials.

* **Back End Tool:**
* Firebase:
* Google Firebase is a Google-backed application development software that enables developers iOS, Android.
* Firebase’s first product was the firebase Real-time Database , an API that synchronizes application data across iOS, Android , and Web devices, and stores it on Firebase’s cloud. The product assists software developers in building real-time, collaborative application.
* In this application, we have used Firebase to store time data.

System Study

* **System Study**

1. **Existing System** : There is currently no system that allows the students to share notes among them.
2. **Proposed System**

**:- Dyanamic Appliaction:**

Student will able to register and login to search a notes, download a notes, upload a notes.

1. **Scope of the Proposed System :-**

* There are these modules in this system.
* Register : Add photo, full name, Email, contacts, gender,

Stream, password, conform password.

* Login :email address , password.

**Role Student:**

* Upload , Downloads the notes

1. **Aim and objective of the Proposed System :-**

The primary objective of the "Find My Notes" application is to provide a platform for students to discover, share, and collaborate on educational notes and resources. The app aims to facilitate efficient access to high-quality study materials, foster knowledge exchange, and enhance the learning experience for users.

1. **Feasibility Study**

* **Operational feasibility(Functionality)**

For respective university, client need a mobile app which consists of following features:

* Registration(by student)
* Login (by student)
* Note Transaction
* Upload
* Download
* **Technical feasibility (Tools)**

Charusat Notes is complete android mobile application. The main technology and tools that are associated with this system are:

* Operation system
* Android
* Programming languages
* Kotlin
* Database technology(Back end tool)
* Firebase for real-time database
* Front-end tools
* Android studio
* Technologies
* Android Software Development Kit
* **Economic feasibility (Budget)**
* Android studio is free to download from internet and is open source
* There is not cost as it not hosted on any platform

System Analysis

* **System Analysis:**
* **Requirements Specification (along with system Modules):-**

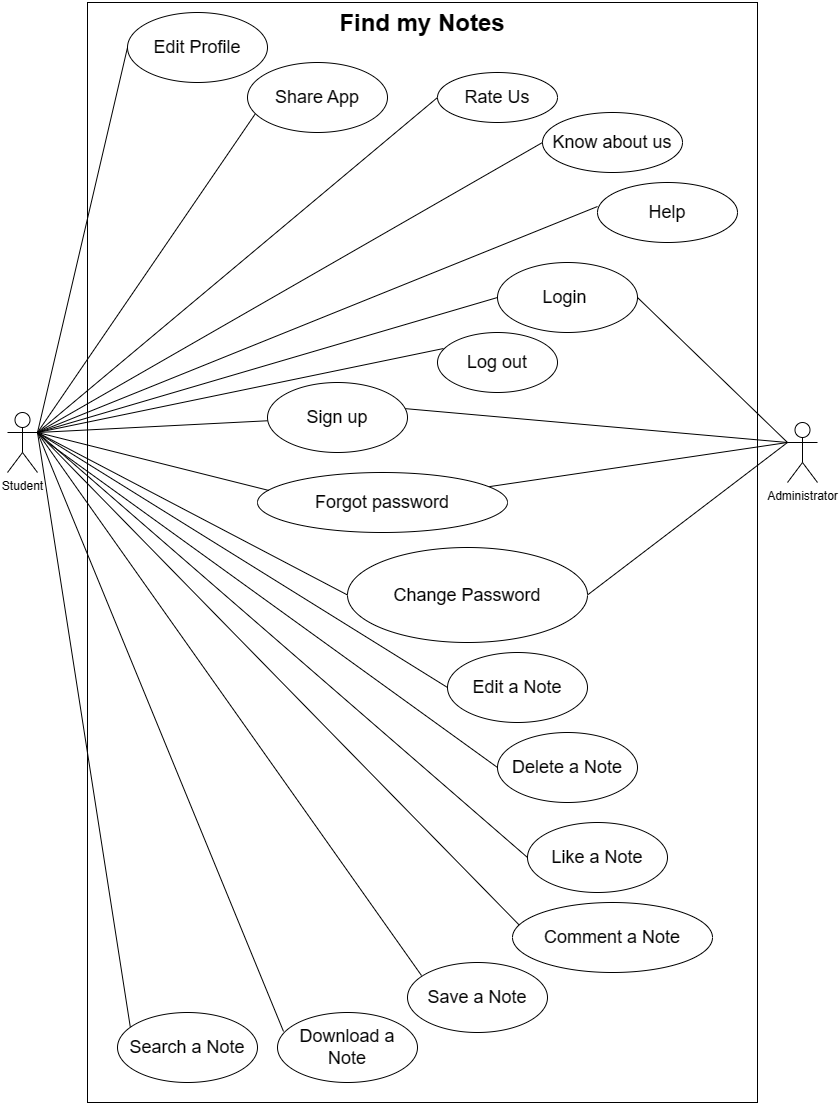
There is mainly only one module:- student module

* **Purpose -**

“Find my Notes” app aligns with the app’s mission of providing a comprehensive platform for collage students to manage their study materials and collaborate with their peers effectively.

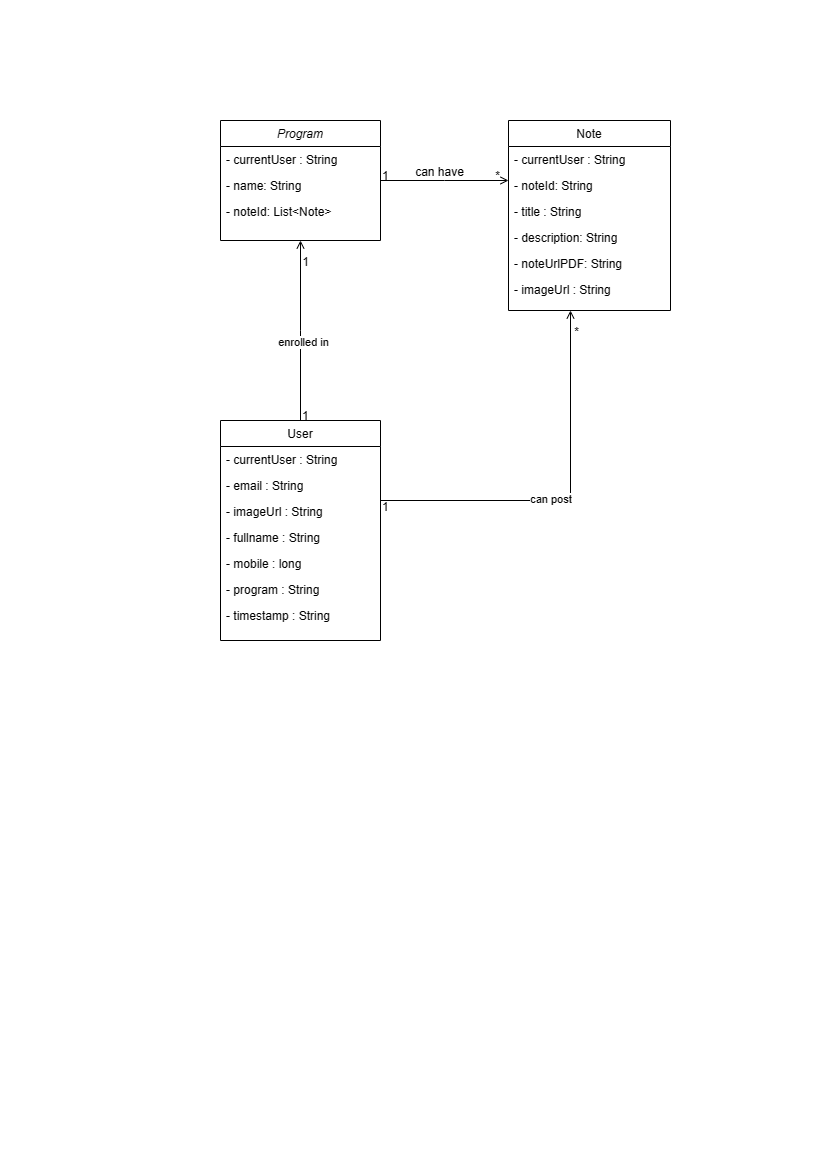
**Intended Audience:-** This system can be used by all the Students of CMPICA student.

* **Use case diagrams:** Actor: Student , Adminstrator



**Activity diagram**

**Class digram:**

****

System Design

Data dictionary:

1. User

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Name | Type | Description | Example |
| 1. | currentUser | String | Firebase User | DqsZaPC9hMc5YeLlowUi46PLhtm1 |
| 2. | Name | String | User’s name | Dev |
| 3. | Email | String | Student Email | 21bca001@charusat.edu.in |
| 4. | Gender | String | User’s gender | Male |
| 5. | Course | String | User’s course | BCA |
| 6. | Contact | Long | User’s Contact | 9999899999 |
| 7. | imageUrl | String | User Image | https://firebasestorage.googleapis.com/v0/b/findmynotes-d125b.appspot.com/o/users%2F4TdUn8oRIzMFTACVsawHt8Kxrgh1?alt=media&token=fc444f08-50f3-4997-ba94-34504def1990 |

1. Program

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Name | Type | Description | Example |
| 1. | Stream | String | Student Stream | BCA |
| 2. | noteId | String | Note ID | -Nu-hVj-Y0CQ6DX0mmxQ |
| 3. | noteTitle | String | Note Title | DSA Notes |
| 4. | currentUser | String | Firebase User | DqsZaPC9hMc5YeLlowUi46PLhtm1 |
| 5. | Description | String | Note Description | This note contains basic concepts of data structures and algorithms |
| 6. | Timestamp | String | Timestamp | * + 1. 1:49:57 |

1. Note

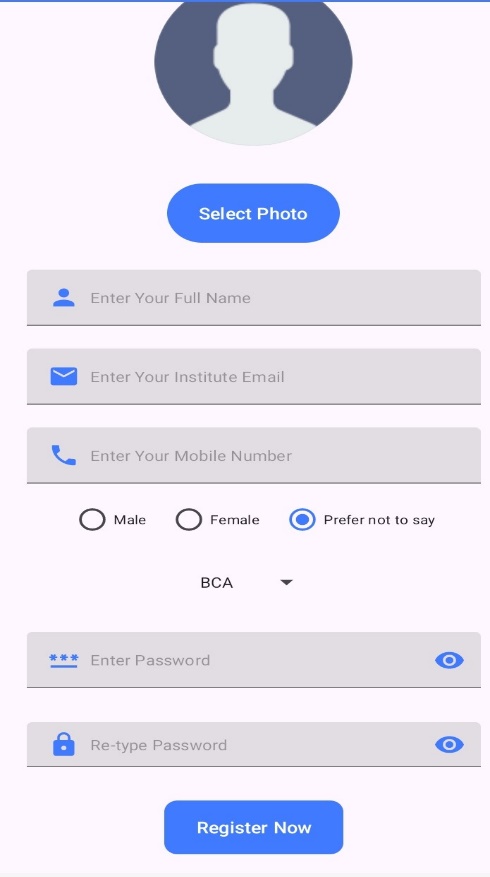
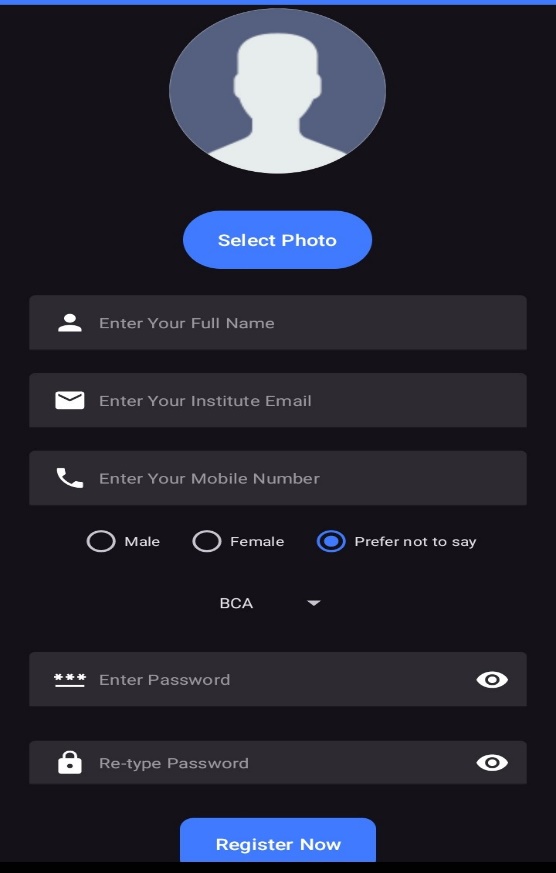
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Name | Type | Description | Example |
| 1. | noteId | String | Note ID | -Nu-hVj-Y0CQ6DX0mmxQ |
| 2. | noteTitle | String | Note Title | DSA Notes |
| 3. | currentUser | String | Firebase User | DqsZaPC9hMc5YeLlowUi46PLhtm1 |
| 4. | Description | String | Note Description | This note contains basic concepts of data structures and algorithms |
| 5. | noteUrlPDF | String | Note URL PDF | https://firebasestorage.googleapis.com/v0/b/findmynotes-d125b.appspot.com/o/notes%2F-Nu-hVj-Y0CQ6DX0mmxQ.pdf?alt=media&token=4924afb1-e122-468d-b4fb-c27d87994cde |

**Screen layouts:**

**App Icon:**

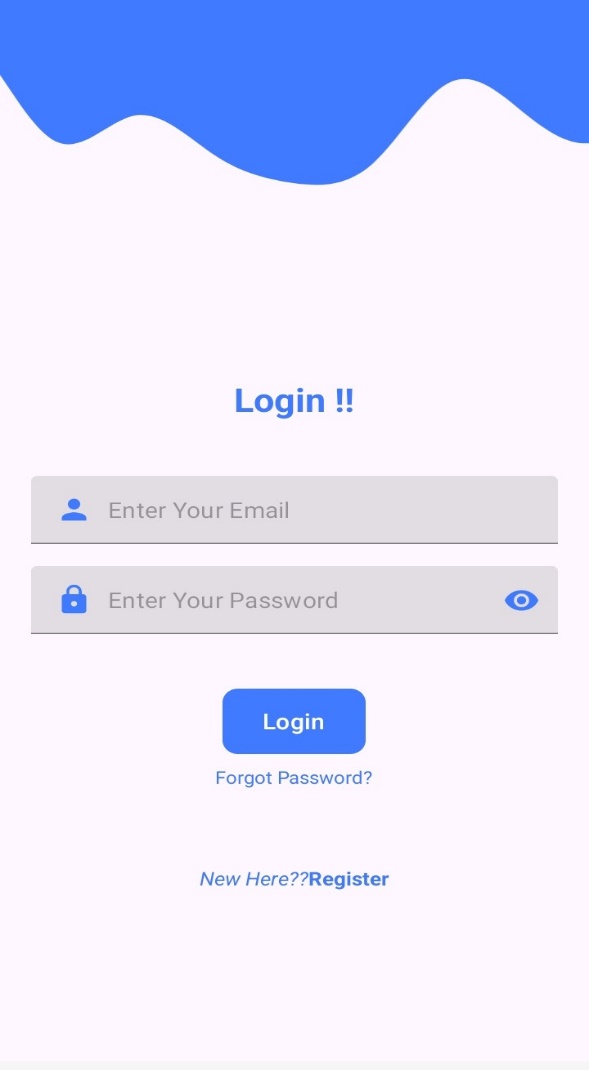
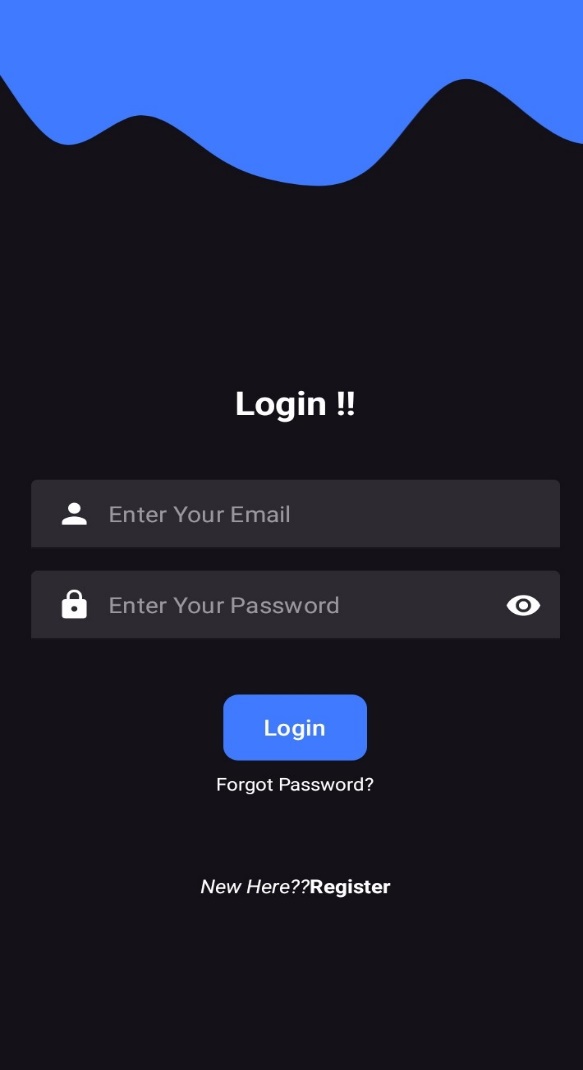
**Registration:**

Here student can register him/her self.

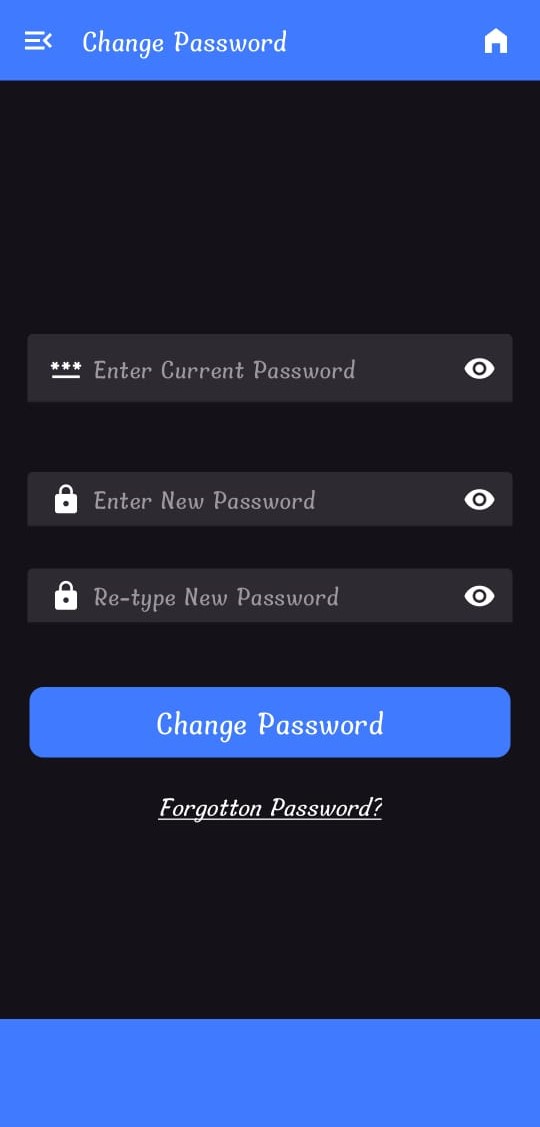
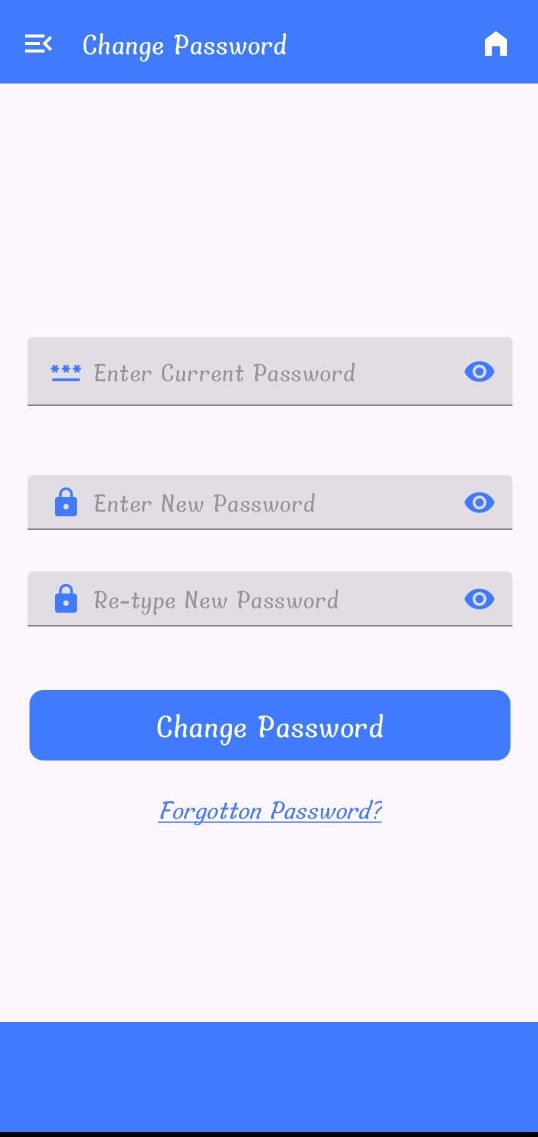
**Login:-**

Student can register him/her self , then login collage Email id and enter the password.

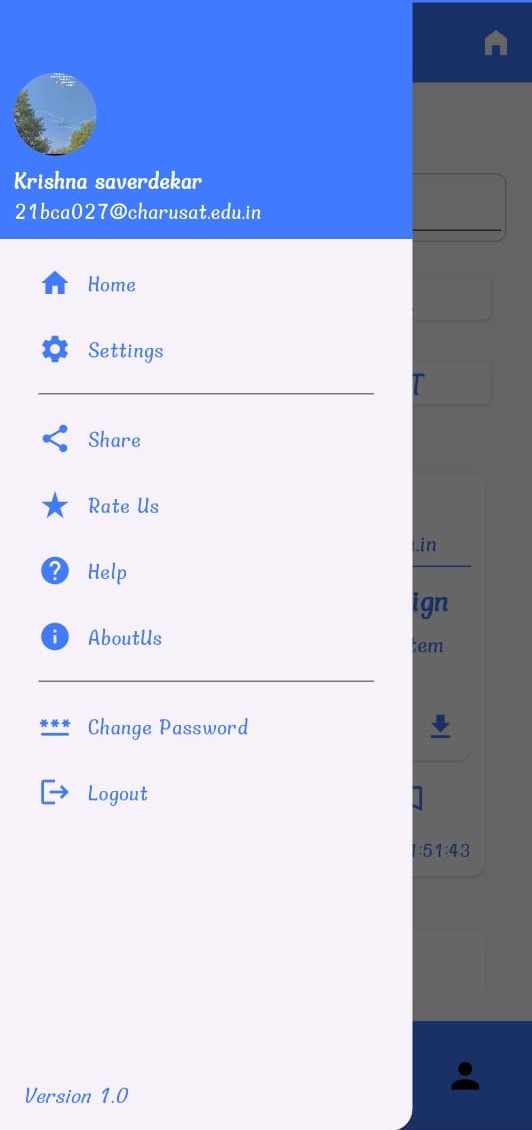
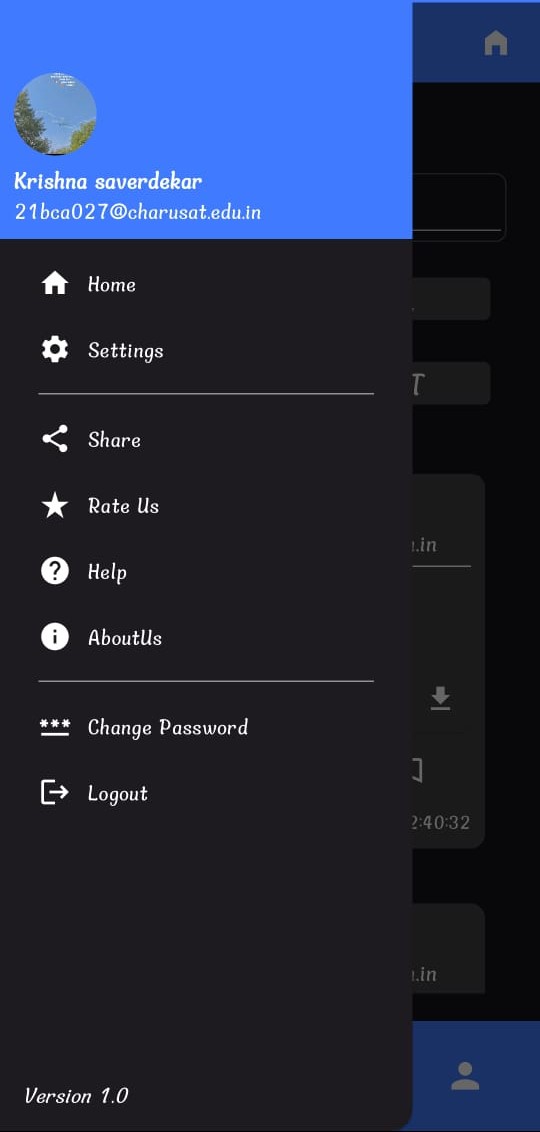
**Change Password:-**

If forgot current password then open forgotten pass activity.



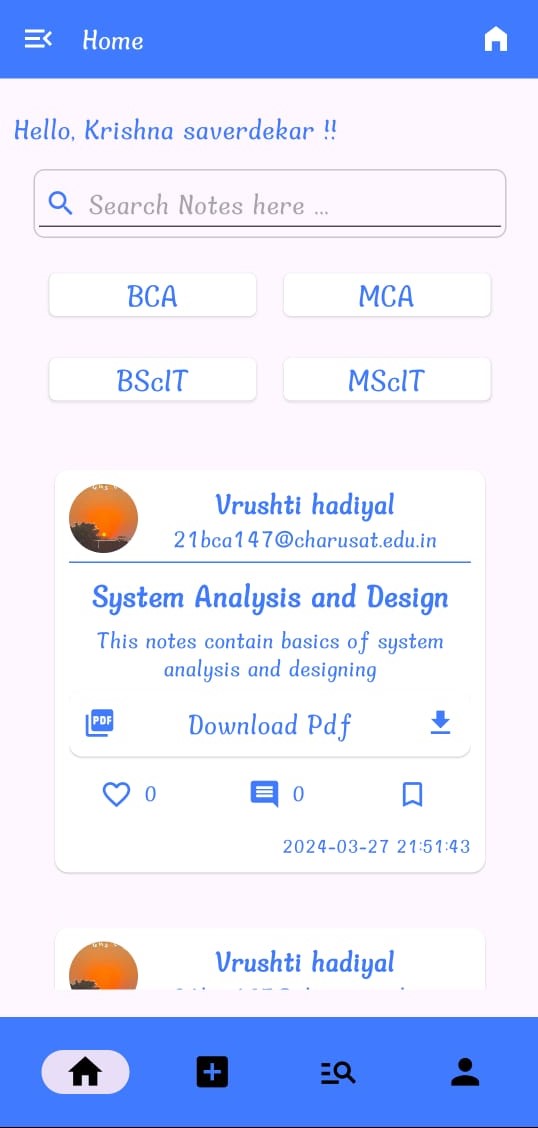
**Homepage:-**

* See the user information.

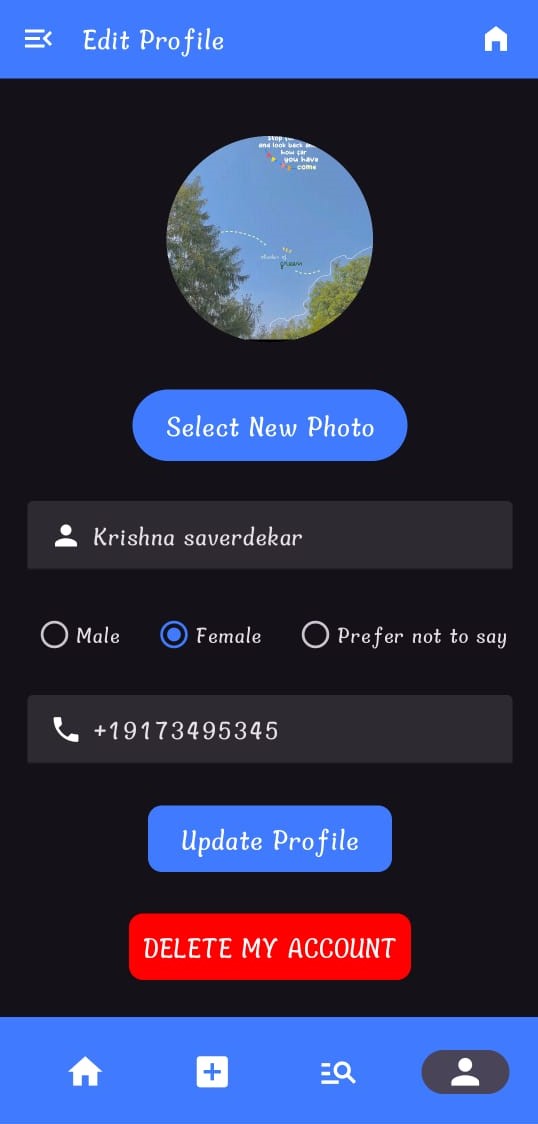
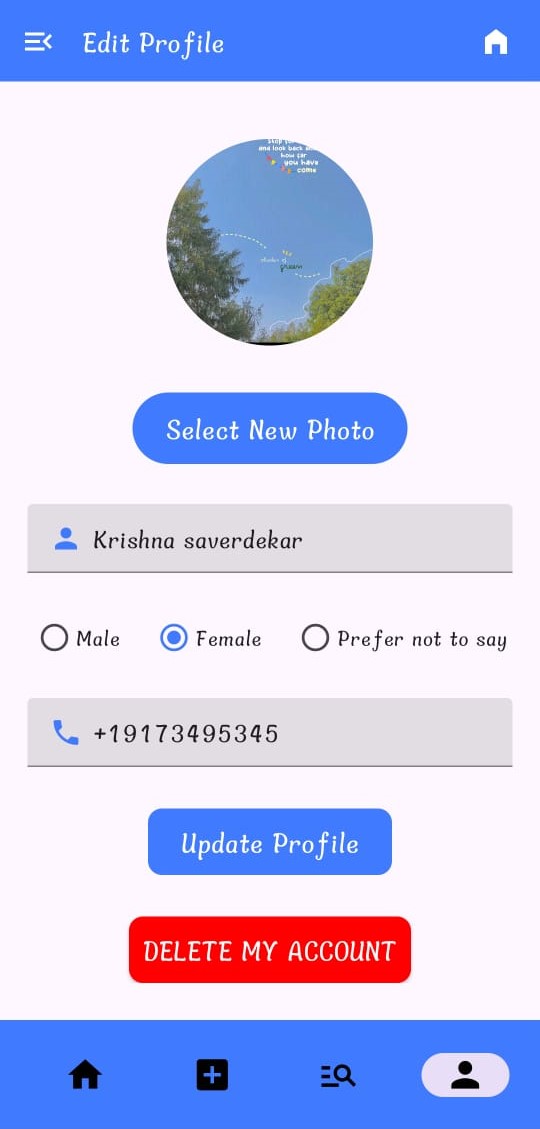
 

**Home:-**

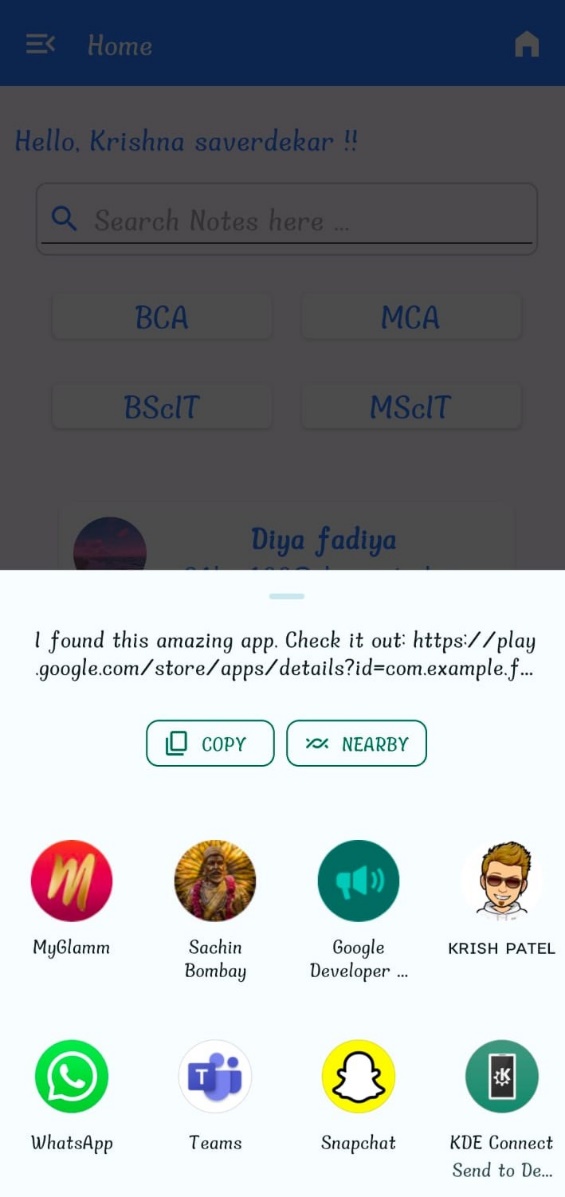
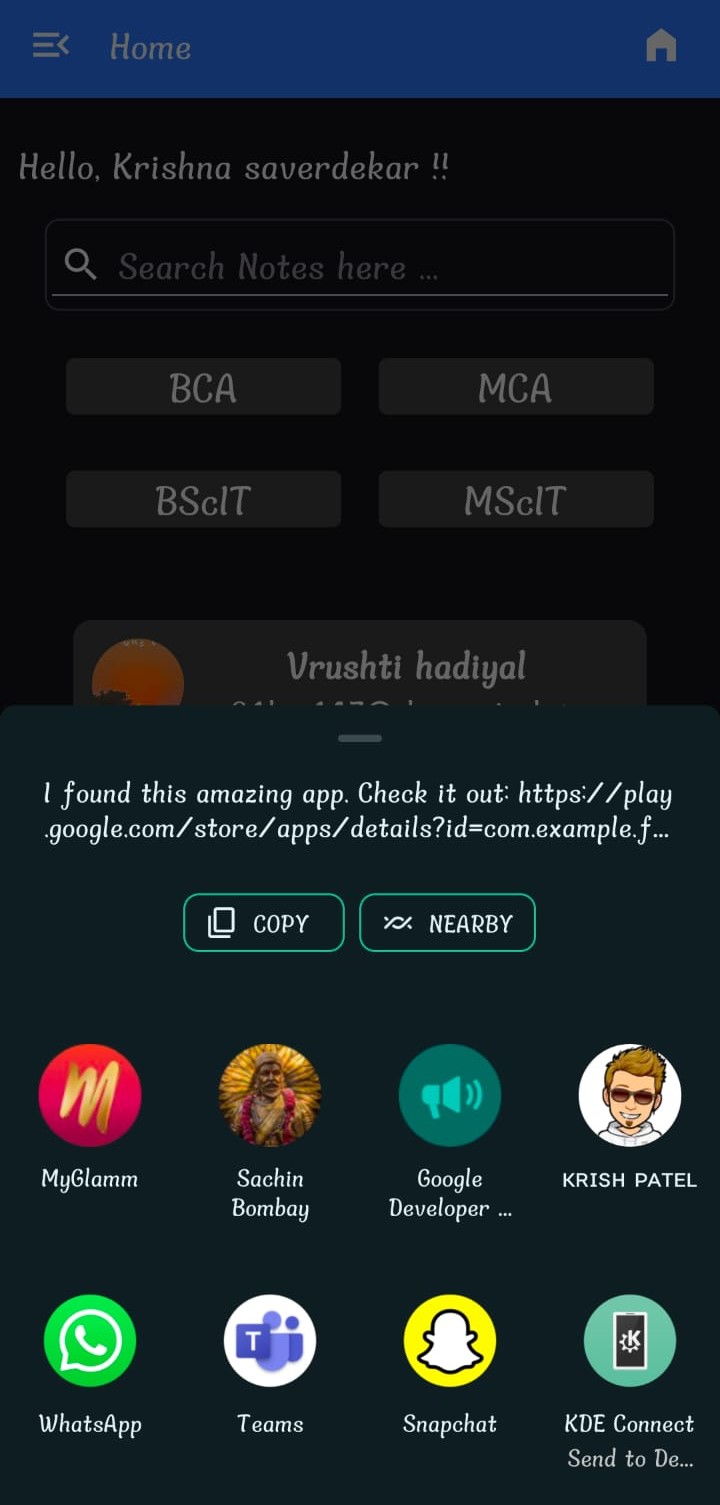
* After you click on the button in the home, you have to select one of the four options. And we have provided you with a PDF download feature so that you can download the PDF.
* Ex:- you will select BCA and you will get BCA notes.

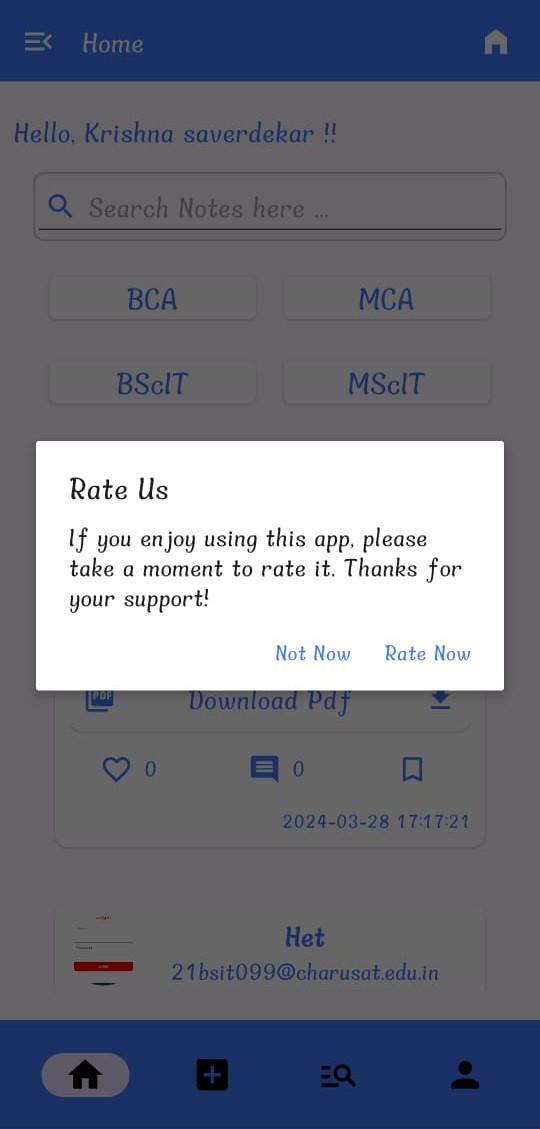
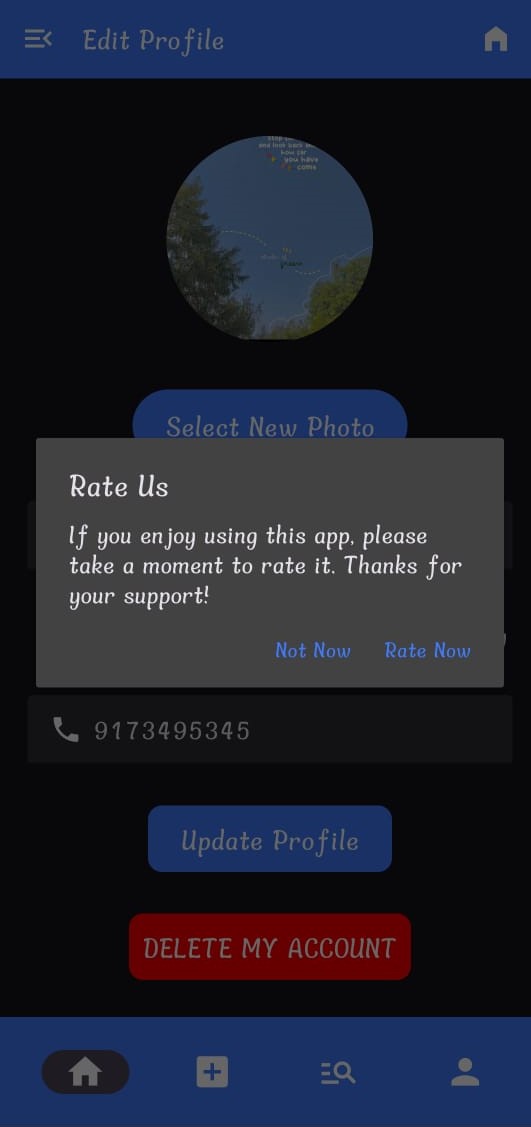
**Settings:-**



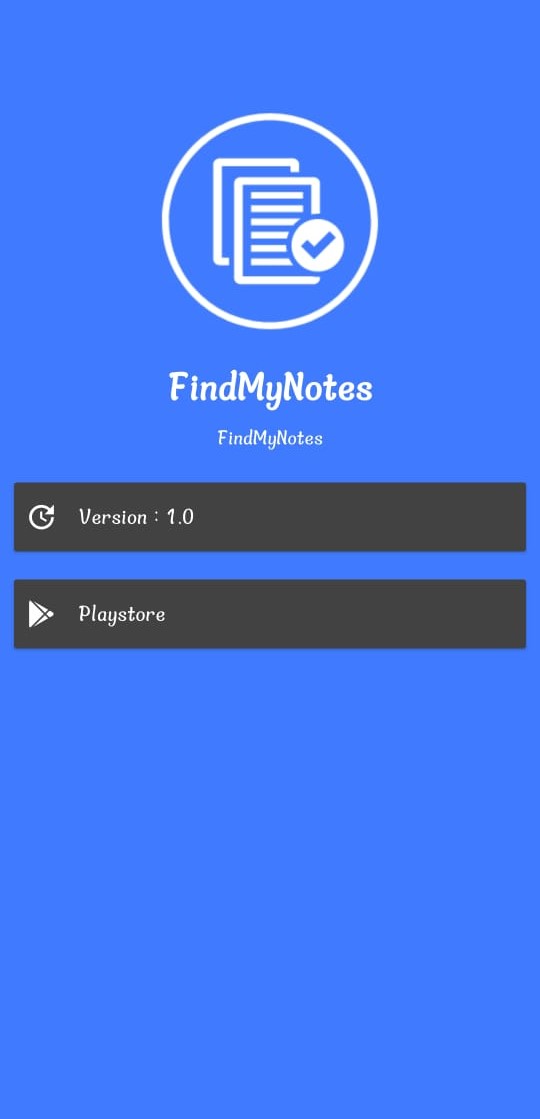
**Share:-**

**Rate Us:-**

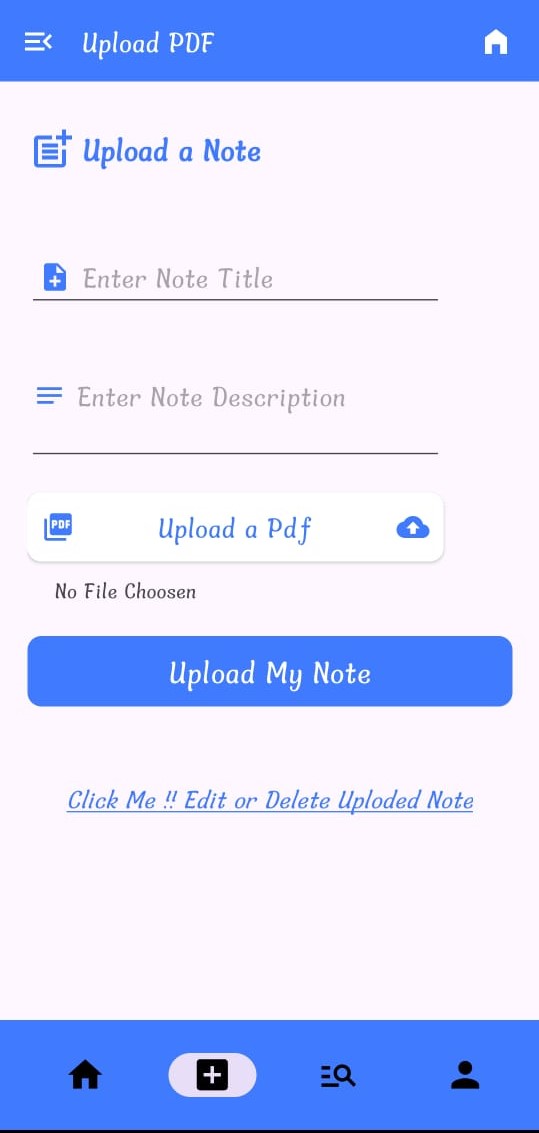
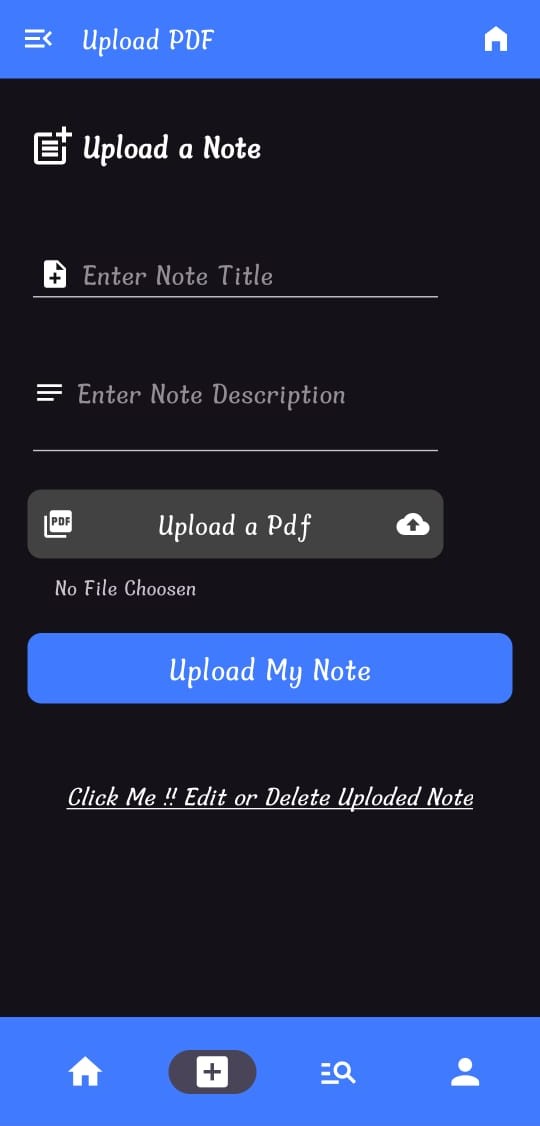
 

**About Us:-**



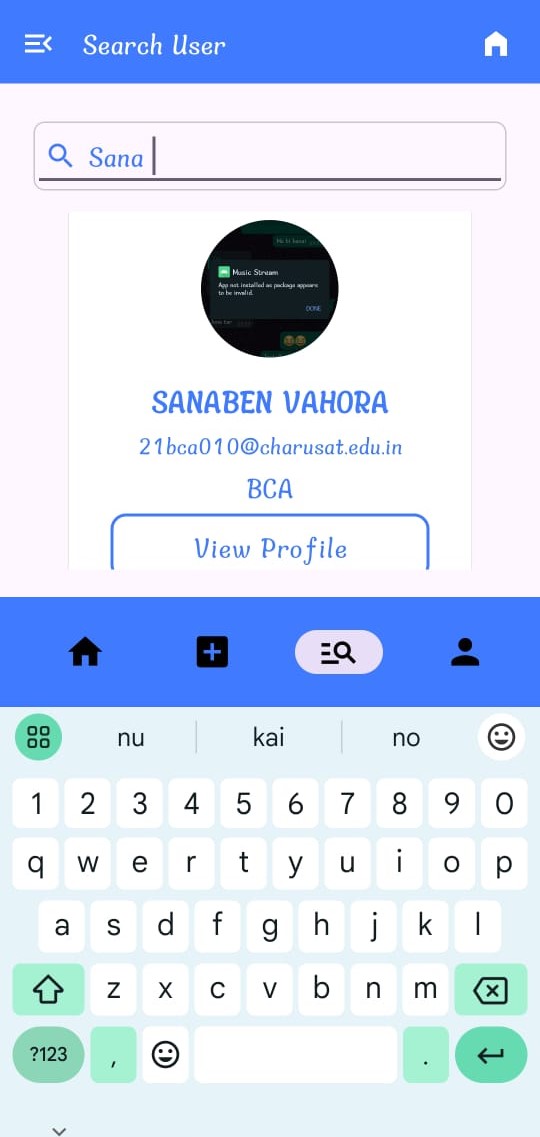
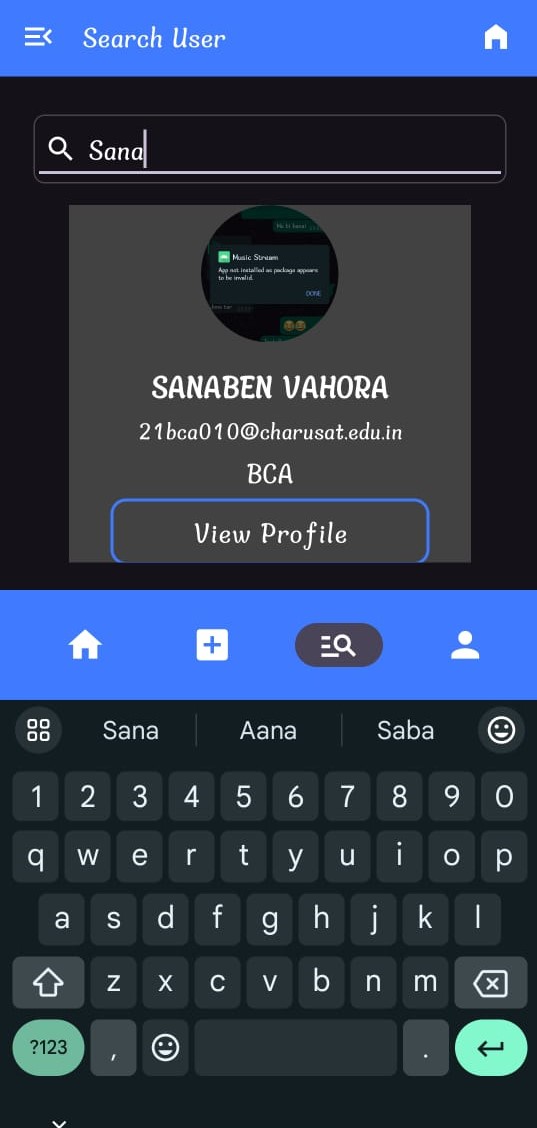
**Upload Notes:-**

* By clicking on the upload button below, the update notes can be uploaded and given a name.

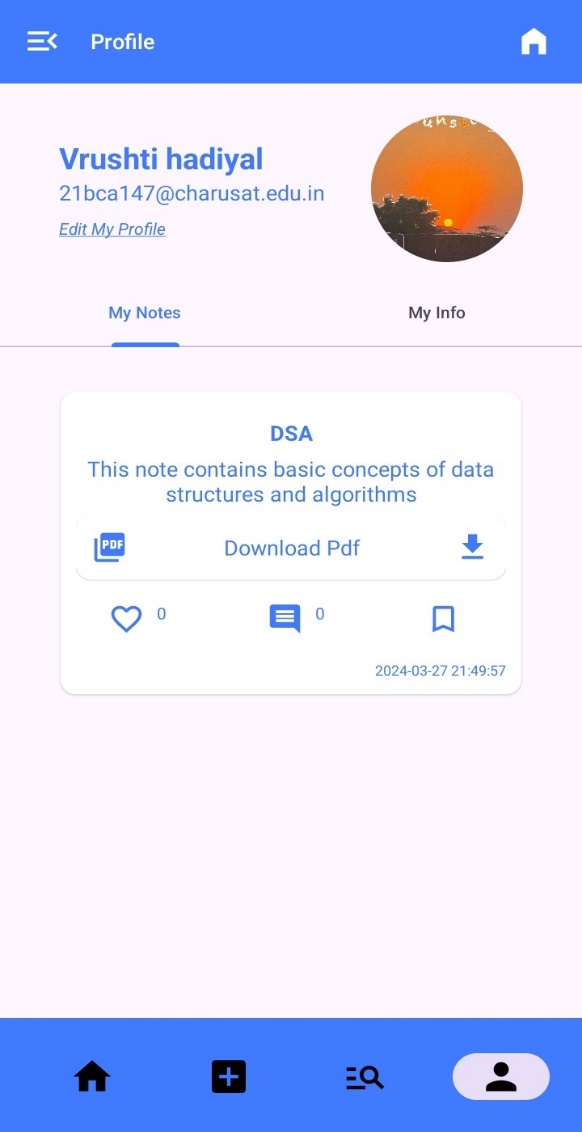
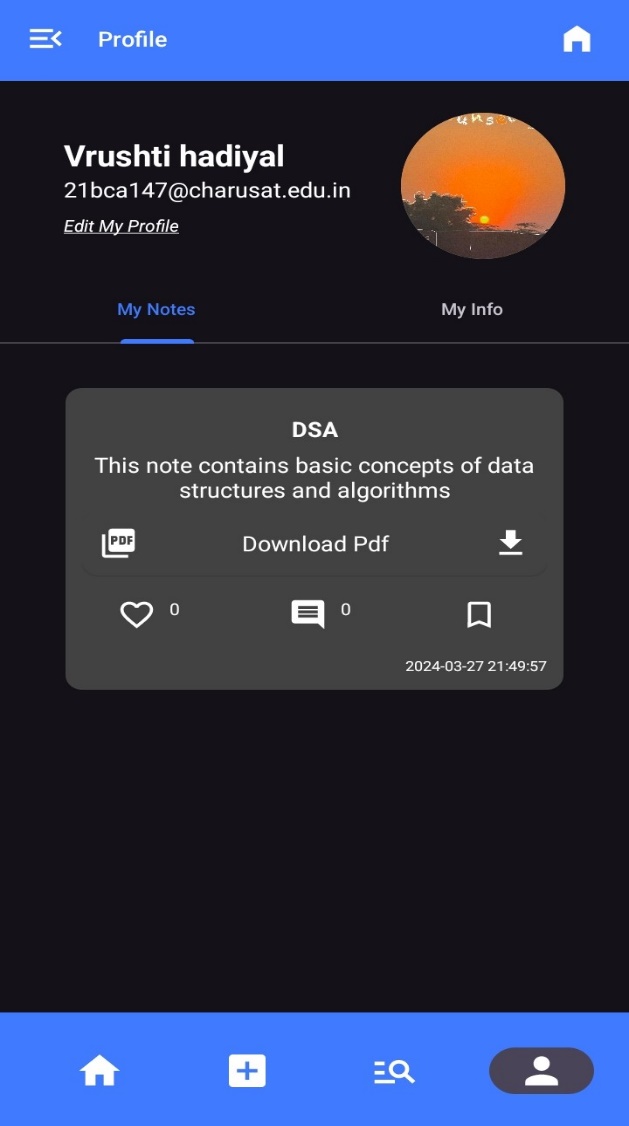
 

**Search :-**

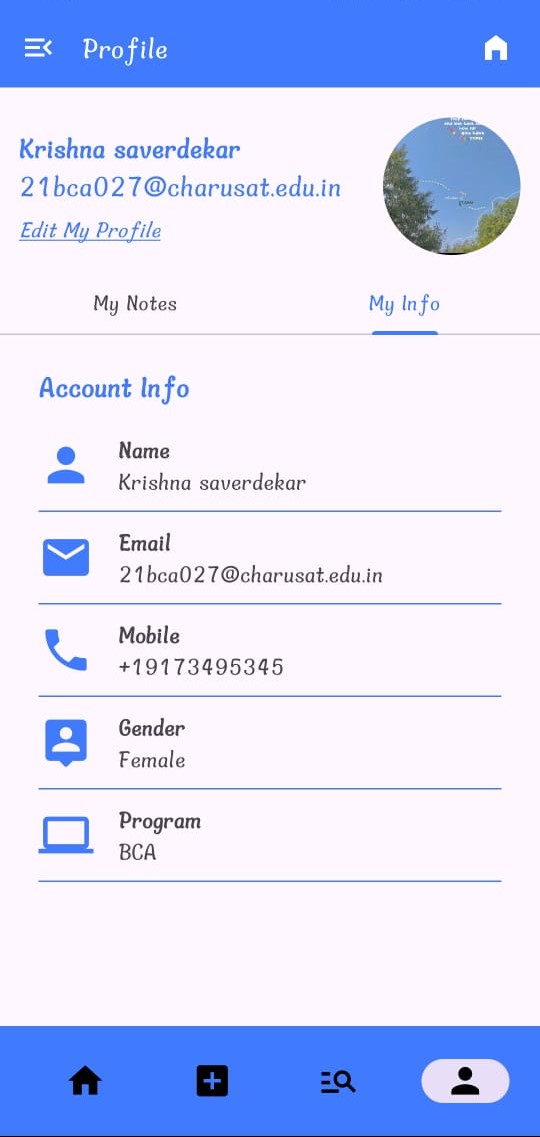
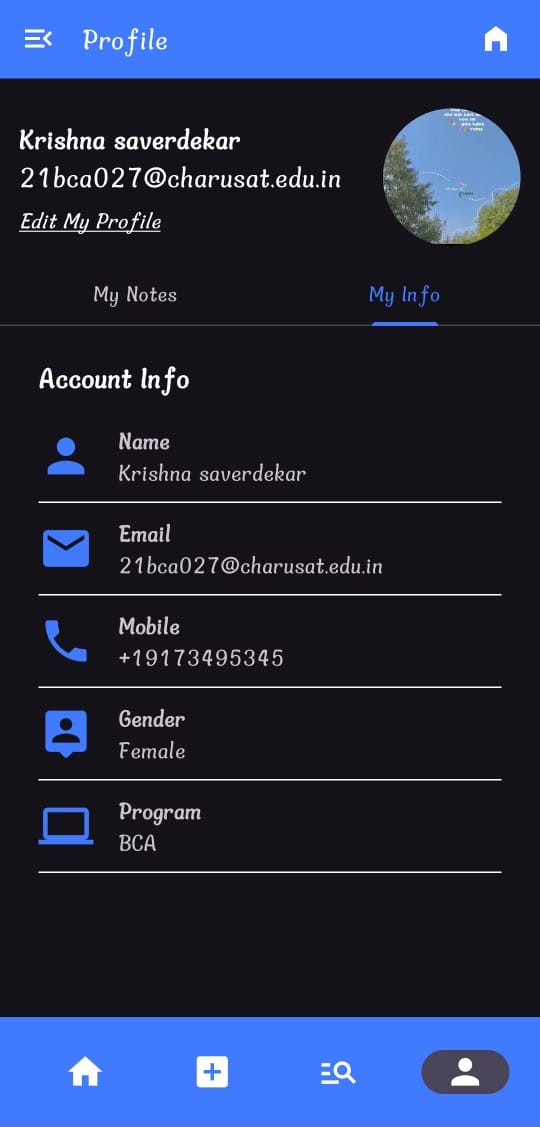
* You can search the user in the search option

**My Notes:-**

**User Account info:-**

System Testing

Testing Strategies and Test Cases:

Tested the application by registering the student and on basis of student login and uses which includes searching book and request for reserving the book and on basis of librarian login and uses which includes adding/updating/deleting books and issue/submit books

Test Cases:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Case no: | Functions | Input values | Expected O/p | Actual O/P | Remarks |
| 1. | Name |  | Enter name | Enter name |  |
| 2. | Name | Neel |  | Neel | PASS |
| 3. | Student Email |  | Enter Student ID | Enter Student ID |  |
| 4. | Student Email | 21bca027@charusat.edu.in |  | 21bca027@charusat.edu.in | PASS |
|  |  |  |  |  |  |
| 5. | Gender |  | Enter Gender | Enter Gender |  |
| 6. | Gender | Male |  | Male | PASS |
| 7. | Gender | Female |  | Female | PASS |
| 8. | Gender | Prefer not to say |  | Prefer not to say | PASS |
|  |  |  |  |  |  |
| 9. | Course |  | Select Course | Select Course |  |
| 10. | Course | BCA |  | BCA | PASS |
| 11. | Course | MCA |  | MCA | PASS |
| 12. | Course | BSCIT |  | BSCIT | PASS |
| 13. | Course | MSCIT |  | MSCIT | PASS |
|  |  |  |  |  |  |
| 14. | Password |  | Enter Password | Enter Password |  |
| 15. | Email Password | Admin |  | Admin | PASS |
|  |  |  |  |  |  |
| 16. | Search Note |  | Search any note | Search any note |  |
| 17. | Search Note | DSA notes |  | DSA notes | PASS |
|  |  |  |  |  |  |
| 19. | Search User |  | Search any user | Search any user |  |
| 20. | Search User | 21bca001 |  | 21bca001 | PASS |
|  |  |  |  |  |  |
| 21. | Post Note |  | Enter Note Title | Enter Note Title |  |
|  | Post Note | SAD notes |  | SAD notes | PASS |
|  |  |  |  |  |  |
| 22. | Post Note |  | Enter Note Description | Enter Note Description |  |
|  | Post Note | This SAD notes contains basics concepts |  | This SAD notes contains basics concepts. | PASS |
|  |  |  |  |  |  |
| 23. | Post Note |  | Select PDF | Select PDF |  |
|  | Post Note | SAD\_NOTES.pdf |  | SAD\_NOTES.pdf | PASS |
|  |  |  |  |  |  |
| 24. | Image Note |  | Select Image | Select Image |  |
| 25. | Image Note | Image.jpg |  | Image.jpg | PASS |

Future enhancement

**Future enhancement:**

Search Filters: Implement more advanced search filters, such as filtering notes by upload date, author, rating range, or file type.

Offline Mode: Implement offline support to allow users to access previously viewed notes and continue browsing, searching, and reading notes even when they're offline.

Note Recommendations: Implement a recommendation system to suggest relevant notes to users based on their interests, browsing history, and interactions with the app.

User Profiles: Enhance user profiles with additional information such as academic interests, educational background, profile customization options, and achievements.

Editing: Enable collaborative editing features for notes, allowing multiple users to contribute to and edit the same note simultaneously.

Bibliography/ References

* [Kotlin Tutorial - Kotlin Programming Language (geeksforgeeks.org)](https://www.geeksforgeeks.org/kotlin-programming-language/?ref=shm)
* [notes-app · GitHub Topics · GitHub](https://github.com/topics/notes-app?l=kotlin)
* [Notes App - CRUD SQLite Database in Android Studio using Kotlin | Create Read Update Delete Data (youtube.com)](https://www.youtube.com/watch?v=BVAslimaGSk&t=345s)
* [Login and Registration in Android using Firebase in Kotlin - GeeksforGeeks](https://www.geeksforgeeks.org/login-and-registration-in-android-using-firebase-in-kotlin/)
* [Using the Trigger Email extension  |  Firebase Extensions (google.com)](https://firebase.google.com/docs/extensions/official/firestore-send-email#pre-installation_setup)
* [How to map an array of objects from Realtime Database to a List of objects? | by Alex Mamo | Firebase Developers | Medium](https://medium.com/firebase-developers/how-to-map-an-array-of-objects-from-realtime-database-to-a-list-of-objects-53f27b33c8f3)
* [How can an error message be set for the Spinner in Android? - Stack Overflow](https://stackoverflow.com/questions/28235689/how-can-an-error-message-be-set-for-the-spinner-in-android)