



Notebase

Requirements Document

by
CakeTec

Table Of Contents

1	What is Notebase?	3
2	Major Features	4
3	How does it work?	5
4	Using Notebase	6
4.1	Entry Screen.....	6
4.2	Home Screen	8
4.3	Search Screen	9
4.4	Profile Screen	10
4.5	Upload Screen	11

Table Of Figures

Figure 1 - Login Frame	6
Figure 2 - Register Frame	7
Figure 3 - Main Frame	8
Figure 4 - Search Frame	9
Figure 5 - Profile Frame	10
Figure 6 - Upload Frame	11

1 What is Notebase?

Notebase is an application that allows users to download and upload handwritten study materials. It was designed for university students from all over the world, in order to help each other study from different sources.

Notebase helps students by providing extra handwritten study materials, which allow them to study from a plethora of different notes from a specific course. It also provides a mutual trust system among peers where a student needs to upload a handwritten material, to see other study materials. Hence it will encourage students to upload their handwritten notes that they have at their disposal. This doesn't only encourage students to contribute and study more, but also increases the amount of authentic study materials in the system, thereby creating a community among students.

2 Major Features

Major features of Notebase include:

- Uploading a study material
- Downloading a study material
- AI system for checking authenticity and legitimacy
- Searching for a specific course or material
- Recommendation, based on the user's location and preferences
- Profile page for the user to see the previous uploaded and downloaded study materials.

3 How does it work?

Notebase works by providing students a network where they can easily share their handwritten study materials between each other inside of a community.

The application starts with user authentication. After the user has authenticated, they will be introduced to the home screen. This is the initial landing screen after authentication where the users can browse through the materials that are currently on the system. However, they cannot access the materials directly.

In order to download or access the study material, the user needs to upload one of their own handwritten study materials to the system. Users can upload a study material by simply navigating to the profile screen by using the bottom navigation bar and clicking the upload button on the profile screen.

Each user has their own profile screen. This screen allows users to check their upload/download ratio and display their previously downloaded and uploaded study materials. The profile screen also provides an upload button where it takes the user to the upload screen.

Upload screen is the most important and crucial part of the Notebase application. In this screen, users will be prompted to upload their study materials and several meta-data concerning this material. The application backend analyzes the soon-to-be uploaded material in a meticulous manner.

Notebase backend inspects the uploaded materials and decides whether the material is "authentic" and "handwritten" or not. The application achieves this via utilizing an AI system on the backend and storing the hash code of the material on the database.

4 Using Notebase

4.1 Entry Screen

When the application opens, Notebase greets the user with the entry screen, where it prompts the user their credentials to login or register.

4.1.1 Login Screen

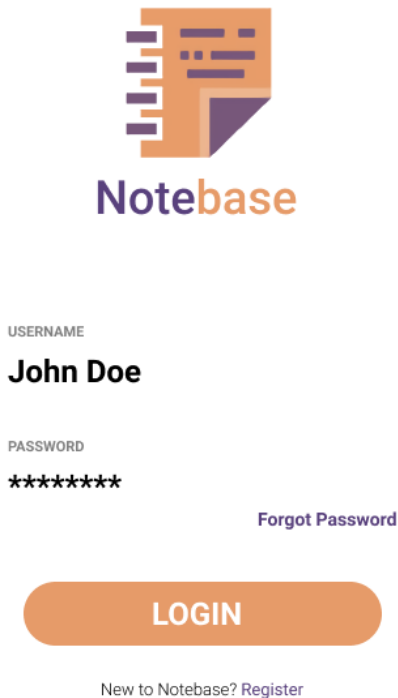



Figure 1 - Login Frame

- Once the user correctly enters their credentials, the home screen will be displayed where the user can select different personalized courses and study materials or search them. User can also navigate through their profile page in this screen.

4.1.1 Register Screen



USERNAME
John Doe

EMAIL
admin@root.com

PASSWORD

CONFIRM PASSWORD

[Forgot Password](#)

REGISTER

Already have an account? [Login](#)

Figure 2 – Register Frame

- If the user doesn't have a credential yet, he or she can register within this screen. After clicking the register button, the application will redirect the user to the login page.

4.2 Home Screen

After the user authenticates with the application, a home screen will be displayed. The user can browse different courses and materials in this screen. It can also search for a specific material by clicking the search icon on the top right of the navigation bar.

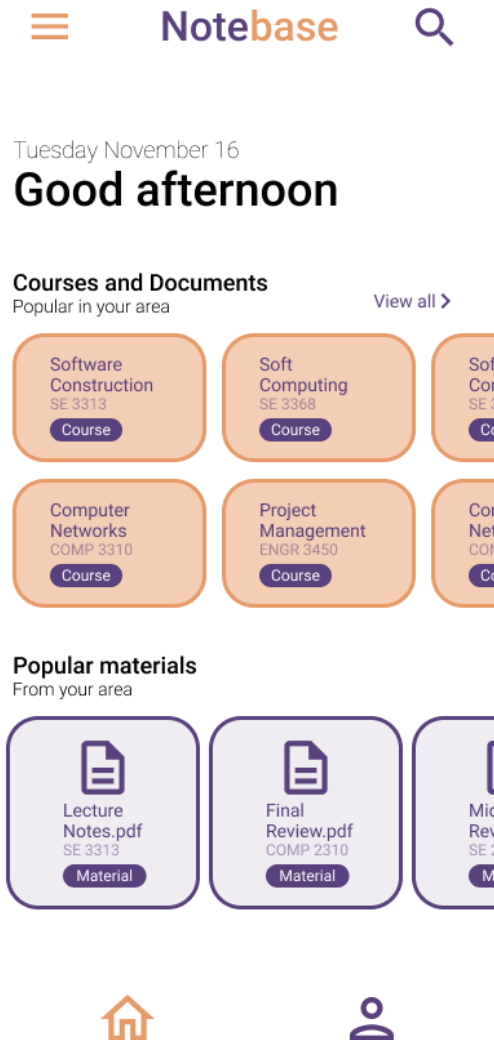


Figure 3 – Main Frame

- This is the landing page of the application after authentication process. The courses and materials recommended in this screen will depend based on the user's location and preferences.
- User can also go to their profile page where all the uploaded and downloaded materials will be displayed.

4.3 Search Screen

After clicking the search button on the right of the navigation bar in home screen, application will display a search screen where the user can query for a specific course or study material of their preference.

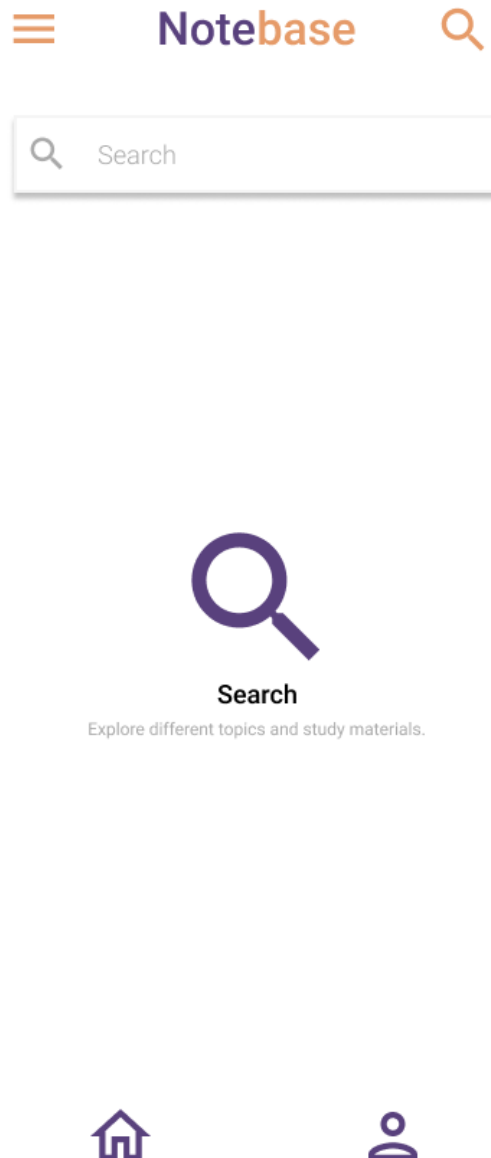


Figure 4 – Search Frame

- This page will provide all the specific course materials queried by the user.

4.4 Profile Screen

Notebase provides their users a ratio-based course material access system. In order a user to download and/or display a study material, he or she needs to upload their own materials themselves. Users can see their own upload/download ratio on the top right of their profile screen.

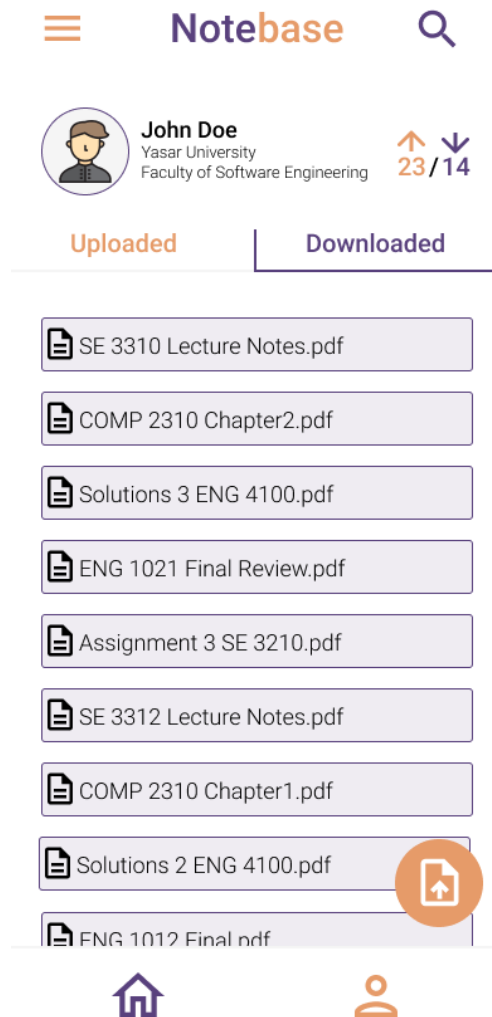
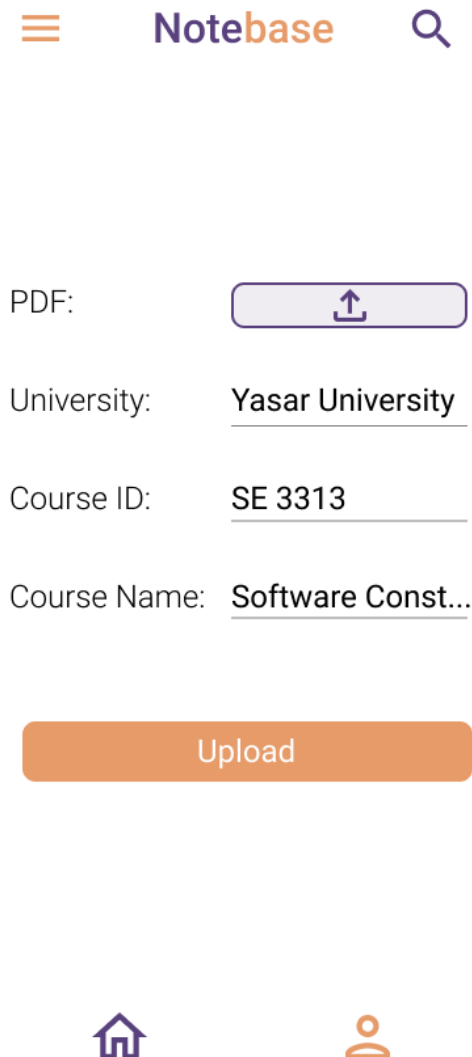


Figure 5 – Profile Frame

- A user can access to their previous downloaded and uploaded study materials in their profile screen.
- They can also see their upload/download ratio to make sure they have enough “credits” to display a new study material.
- Users can click the upload floating action button to upload new study materials.

4.5 Upload Screen

Whenever a user wants to upload their own study materials to the system, they can click the floating action button with the upload icon on their profile screen.



PDF:

University:

Course ID:

Course Name:



 

Figure 6 – Upload Frame

- Upload page is responsible for uploading the “authentic” and “handwritten” materials to the system. It asks the user the material itself and other meta-data to be used for query and recommendation purposes.
- After clicking the upload button, the backend will analyze the to-be-submitted material to ensure that it is in fact “authentic” and “handwritten”.