

A Minor Project Proposal Report

NOTESCONNECT

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1. Introduction

Students and teachers can exchange and access educational resources, study materials, lecture notes, and other pertinent stuff in a digital setting thanks to note-sharing websites. These platforms enable group learning, knowledge sharing, and easy access to a variety of educational resources. These platforms make use of technology to facilitate quick and easy access to educational information, which is advantageous for both students and teachers. An education material notes sharing platform's main goal is to provide an easily searchable, accessible, and shareable central repository of educational resources. It enables students to extend their learning beyond what is taught in the classroom by having access to additional study materials. In order to promote a culture of information sharing and cooperation, educators can also give their skills and resources. These platforms frequently provide functions including user registration and authentication, content organizing and uploading, search functionality, user profiles, and social interactions. To share with the community, users can post their own notes, presentations, study guides, or other pertinent educational materials. To access content donated by others, they can also conduct searches for particular themes, categories, or keywords. The capacity of note-sharing systems for education to encourage collaborative learning is one of their key benefits. The shared resources are open for discussion and insight sharing, questions, and feedback from the students. This connection increases involvement, fosters interest, and improves the entire learning process. Platforms for sharing educational notes also help teachers by giving them a way to share their expertise outside of the walls of the classroom. They can share their lesson plans, lecture notes, and resources to reach a wider audience and improve education outside their personal sphere of influence. Additionally, these platforms frequently include tools to guarantee the dependability and quality of the shared content. Users may trust the shared resources to meet their learning goals because of user

ratings, reviews, and feedback methods that assist authenticate the usefulness and correctness of the contents.

In conclusion, platforms for exchanging educational content notes give students and teachers a digital environment where they may share, access, and work together on educational resources. These platforms improve learning possibilities, boost collaboration, and advance knowledge exchange by offering a consolidated library of resources. They enable teachers to have an impact outside of the typical classroom setting and empower students to further their education.

2. Problem Statement:

Students are left to their own devices to gather and compile notes when numerous institutions affiliated with a single university have the same curriculum but lack the infrastructure to share study materials. Students that belong to a specific year compile notes and take the tests. After exams, the notes are either thrown away or given to a friend or relative; they are never uploaded to a shared platform.

As a result, every year a different group of pupils tells the same story. This led to significant losses in time, money, energy, and paper (photocopied notes).

3. Objectives:

- To make notes easily and fast accessible
- To access complete notes of every subjects

4. Scopes:

1. User registration and profiles: Give learners the ability to register and edit their profiles. Give users the option to add affiliations with particular universities and add profile images and bio sections.
2. Note Sharing: Give students the option to upload and distribute personal study resources, such as presentations, lecture notes, and summaries. To make

navigating easier, consider categorizing the notes by subject, course, or college.

3. Document management: Create a system for managing and organizing shared documents, including suitable categorization, tagging, and search features. This will make it easier for users to find and access relevant resources.
4. Question and answer forum: Organize a forum where students may post inquiries about various subjects.

5. Literature Review

Note sharing online applications have received a lot of attention as excellent tools for improving collaboration and knowledge sharing in a variety of scenarios. The purpose of this literature review is to investigate the available research on note sharing web applications, with an emphasis on their features, benefits, and impact on collaboration and knowledge exchange. Some of the note sharing platforms are follows:

- Evernote: Evernote is a note-taking and organization tool with many features and functionalities. Here are some of Evernote's main attributes:
 1. Note Creation and Formatting: Using several formatting options including headings, bullet points, numbered lists, and font styling, users may create and format rich text notes. Better visual appeal and organization are made possible by this.
 2. Support for attachments and multimedia: Evernote lets users attach documents, photos, audio files, and even PDFs to their notes. Users can add pertinent content to their written notes by using this function.
 3. Web Clipper: Users may save articles, webpages, and screenshots directly into their Evernote accounts with the Web Clipper browser extension from Evernote. For reference purposes, research, and bookmarking, this tool is quite helpful.
 4. Organization and Tagging: Evernote provides strong organizational tools, enabling users to organize their notes into

stacks and notebooks. Users can add tags to notes for additional categorization and simple retrieval.

5. **Powerful search functionality:** Users may rapidly locate particular notes using Evernote's robust search engine, which can be based on keywords, tags, or text contained inside the notes themselves. Users can efficiently find information with this functionality.
6. **Synchronization across Devices:** Notes are synchronized across all devices, including tablets, smartphones, and desktop PCs, thanks to Evernote. As a result, wherever users are working, notes are available and current.
7. **Collaboration and Sharing:** By allowing access to particular notebooks or individual notes, users can work with one another and share their thoughts. Real-time viewing, editing, and commenting on shared notes is possible between team members.
8. **Alerts and Reminders:** Evernote users can set alerts and to-do lists inside their notes. Users may keep organized and on top of their work with the aid of reminders, which can be date- or location-based.
9. **Offline Access:** Evernote provides offline access to its users' notes, allowing them to access and edit them even when they are not connected to the internet. Users who commonly work in offline conditions will find this functionality to be especially helpful.
10. **Integration with Third-Party Apps:** Users can improve their note-taking experience by integrating Evernote with a number of third-party apps and services. Along with this, productivity software like Google Drive, Slack, and Microsoft Teams are integrated.

- Quora: Popular question-and-answer website Quora has a number of features to encourage user interaction and knowledge sharing. These are some of Quora's main characteristics:
 1. Q&A format: Users can pose questions on a variety of topics, and other users can respond with knowledge and expertise.
 2. Topics and Interests: Depending on their preferences, members of Quora can explore and follow particular topics and interests. This aids users in finding appropriate questions, solutions, and debates related to their areas of interest.
 3. Person biographies and profiles: Every person on Quora has a profile that highlights their knowledge, passions, and contributions. To demonstrate credibility, users can submit a biography, a list of their qualifications, including their education, professional history, and areas of specialty.
 4. Upvotes and Downvotes: Users may upvote or downvote replies according to their worth, usefulness, and significance. This function gives users feedback and assists in highlighting the most useful and informative responses.
 5. Comments and Discussions: Users are able to comment on questions and replies and participate in discussions. This enables further discussion, clarification, and the sharing of new information and viewpoints.
 6. User following and alerts: Users can get alerts about other users' activities, such as when they add new replies or comments to debates, by following particular users.
 7. Quora Spaces: Users can establish and join Spaces to meet people who share their interests, exchange expertise, and participate in debates in a more concentrated group.
 8. Question and Topic Following: Users are able to participate in ongoing conversations and remain up to date on relevant issues thanks to this.

9. Quora Digest: According to user preferences and activities, Quora emails users a daily or weekly digest. The digest keeps readers interested in pertinent content by including personalized recommendations, trending queries, and solutions in the topics they follow.
10. Quora for Business: Quora provides tools for businesses, enabling them to set up branded accounts, participate in the community, and advertise their goods and services through focused advertisements and sponsored content.

6. Proposed Methodology

The methodologies that we will be following for this project are described below:

6.1 Software Development Life Cycle (SDLC):

SDLC refers to the number of phases that are involved in developing a software. The main objective of SDLC is to provide high quality software that meets the customer requirement with estimated cost and time.

In this project, we will be using 'agile' model for developing our application. In agile SDLC, iterative and incremental process models are combined. It prioritizes process adaptability and customer satisfaction by delivering functional software products quickly. The product is divided into small incremental builds under the Agile SDLC. These builds are then provided into iterations. Each iteration in agile model consists of these phases:

1. Planning
2. Requirement analysis
3. Design
4. Development

5. Testing
6. Deployment

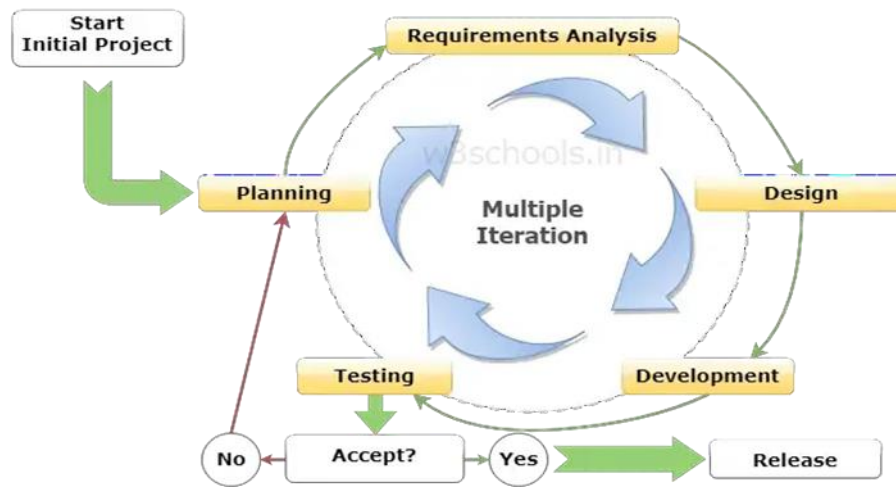


Figure 1: Agile SDLC model

6.2 Proposed System Flowchart

The diagrammatic representation of how our web application will be working is explained using flowchart below:

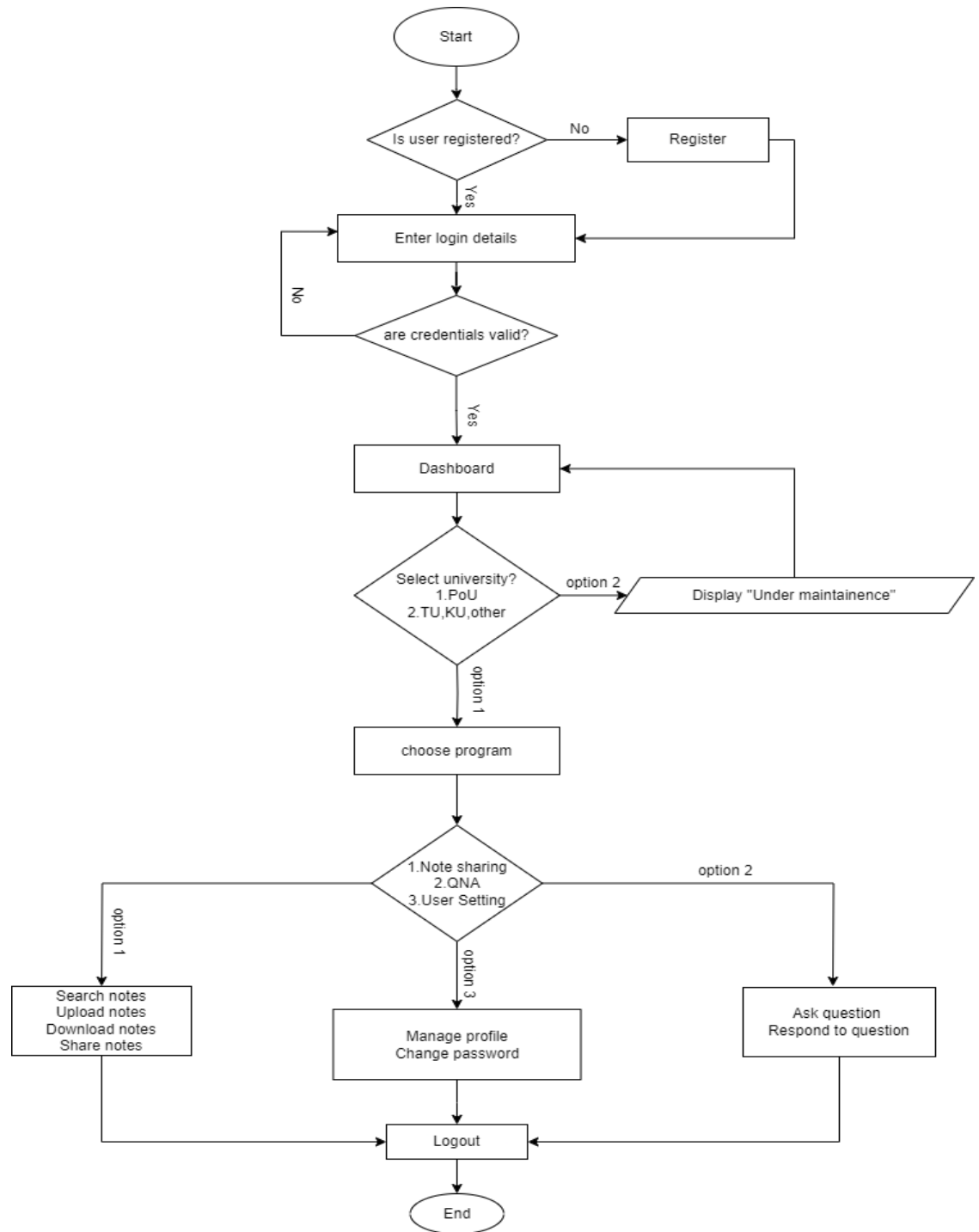


Figure 2: Proposed system flowchart of NOTECONNECT

6.3 Admin Flow Chart

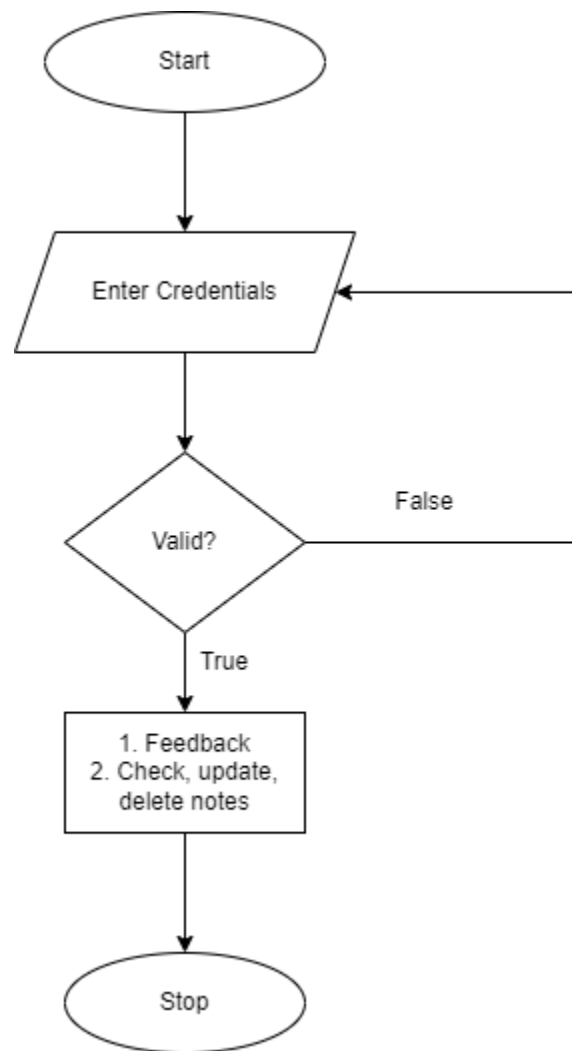


Figure 3: Admin Flowchart

6.4 Use case diagram



Figure 4: Use case Diagram

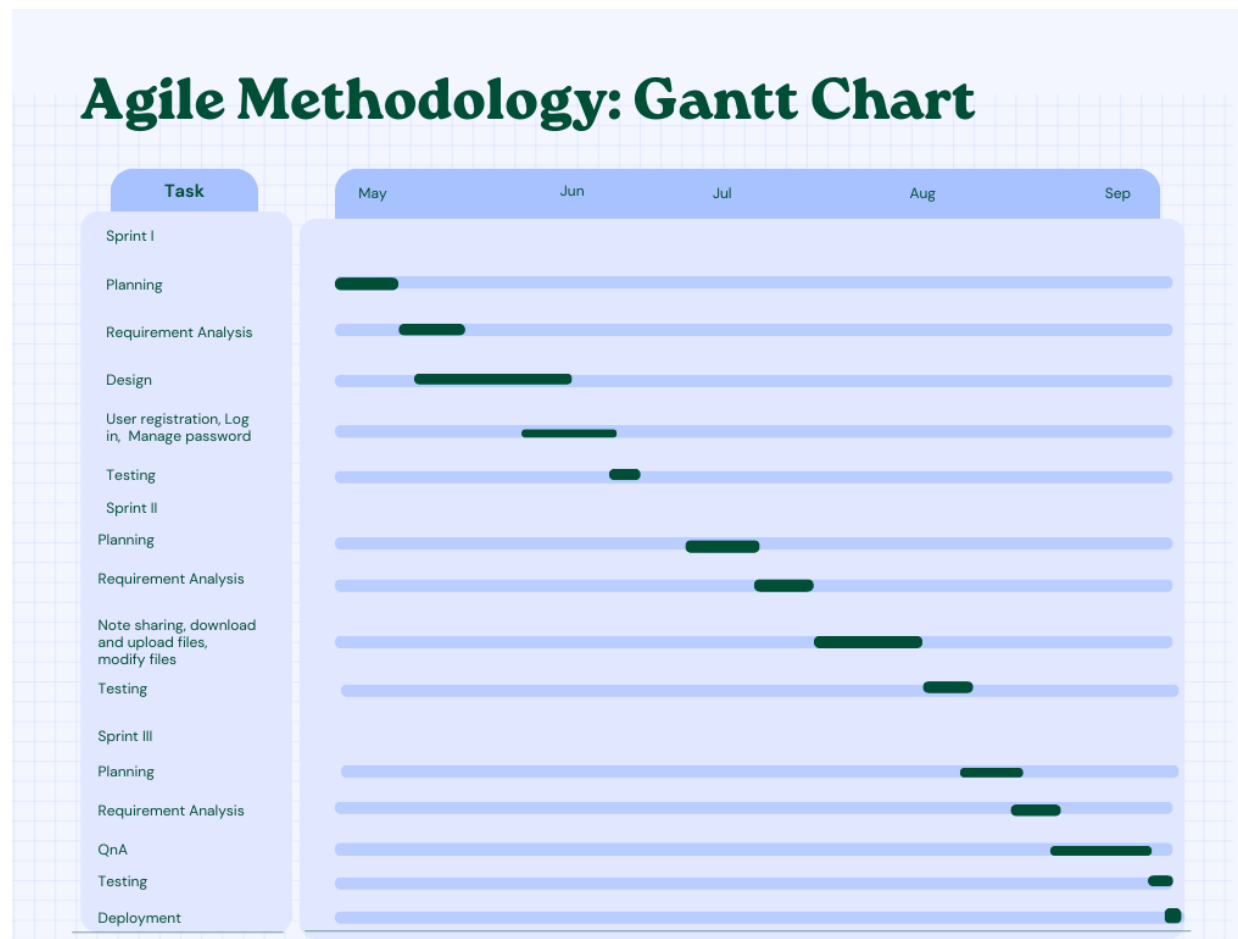
6.5 Tools and Technologies to be used

Various tools and technologies that we will be using to develop our web application are mentioned in table below:

Tools/Technologies	Use
HTML,CSS, JavaScript	Frontend
Python and Django	Backend
PostgreSQL	Database
Figma	UI design

Table 1 Tools and technologies used

6.6 Gantt Chart of Agile Methodology



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