REVA UNIVERSITY
Bengaluru, India

Project: Notes Ninja!

Team Members:

1. Ghanavanth (R22EF071)
2. Bhuvan Shridhar (R22EI005)
3. Pritam (R23EI027)
4. Mahalasa SP (R22EF285)

Scrum Mentors:

1. Amogh Padukone
2. SNG Viraj Reddy

PROBLEM/PROJECT STATEMENT

The current systems used for sharing educational materials, such as notes, are not user-friendly and are dispersed, causing difficulty for students to locate required resources. Additionally, teachers encounter challenges in efficiently sharing materials due to the lack of user-friendliness and inclusivity in existing platforms. This hinders the smooth exchange of educational content.

Solution Proposal ("Notes Ninja"):

We have a solution called "Notes Ninja." It's a simple website that makes it easy for students to share and access notes. This platform brings all educational resources together in one place, so students from different schools can easily find what they need. It also makes it simple for teachers to share their materials with everyone.

INTRODUCTION

Notes Ninja, your gateway to a smarter and more accessible learning experience! In a digital era where education is key, we present a revolutionary web development project that aims to simplify the way students access study materials and how teachers share their expertise.

Notes Ninja is not just a platform—it's a solution.
We've crafted a user-friendly space that makes it a breeze for teachers to upload notes and ensures students from various schools can easily access quality educational content. Join us on this journey towards a more connected and efficient educational ecosystem. With Notes Ninja, learning is just a click away.Embrace the future of accessibleeducation!

Key Features of Notes Ninja:

User-Friendly Interface:
Intuitive design for seamless navigation, ensuring a user-friendly experience for both students and teachers.
Effortless Note Sharing:

Streamlined upload process for teachers, making it easy to share notes and educational materials with students.
Universal Accessibility:

Accessibility for students from various schools, breaking down geographical barriers to education.

Extensive Note Repository:

Comprehensive repository offering a diverse range of notes across subjects, providing a one-stop solution for students.

Reference Pages:

Dedicated reference pages allowing students to explore and access various online books, enriching their learning experience.

Teacher-Student Interaction:

Contact page facilitating direct communication between students and respective teachers for clarification of doubts and additional support.

Responsive Design:

Ensures a seamless experience across devices, allowing users to access educational resources from desktops, tablets, and smartphones.

Search and Filter Functionality:

Robust search and filter features for efficient browsing, enabling students to quickly locate specific notes and reference materials.

Collaborative Learning Spaces:

Interactive features, such as discussion forums, fostering a collaborative environment where students can engage in knowledge-sharing.

Feedback Mechanism:
Built-in feedback system allowing users to provide insights, contributing to the continuous improvement of the platform.

Secure User Data:
Prioritizing the security and privacy of user data, instilling trust and confidence in the Notes Ninja platform.
Scalability:

Designed with scalability in mind to accommodate a growing user base and evolving educational needs.
Notes Ninja is more than just a web development project; it's a comprehensive solution aimed at transforming the learning experience, making educational resources accessible, interactive, and enriching for students and teachers alike.

Highlight Features:

1) Quick access: Quick access to refer and upload the notes.

2) Feedback: users experience for referring the notes

3)References: to refer the refer the textbooks as well as related textbooks with respect to the subjects.

4)Upload button: only selected users can upload the notes on the website

FUTURE ADVANCEMENTS

In the coming weeks we hope to achieve the following :-

- Complete Responsiveness on all displays
- A working back-end + database with authentication
- Authentication with 3rd party services such as Google, discord, GitHub accounts.
- Reword the entire the website using frameworks and MERN stack.

Enhanced Key Features of Notes Ninja with AI Integration:

AI-Powered Word Meanings:
Integration of an intelligent AI bot for on-the-spot word meanings, providing instant assistance to students encountering unfamiliar terms within the notes.

Contextual Text Explanation:
AI-driven functionality offering easy explanations for complex text within notes, enhancing understanding and facilitating a smoother learning experience.

By incorporating these AI-powered features, Notes Ninja goes beyond traditional note-sharing platforms, providing students with real-time support and insights to foster a deeper understanding of the study material.

OVERALL EXPERIENCE

As all the team members are novices to intermediates in terms of knowledge about web development, going into the project was intimidating at first. But with the help of each member in the group and the team lead, the first initial design was created using Figma. Discussions on what the website should contain and display, data scraping for images, watching tutorials to implement certain/many aspects on the website, and initial issues faced with a lack of knowledge on how to use Git and GitHub. The first week was spent learning the usage of Git and designing the initial draft of the website. In the second week, after the design in Figma was created, everyone worked towards making that design a reality using Reactjs and Tailwind CSS. Also, discussions about what new aspects should be added to enhance the user experience were held, including elements such as a menu, carousel (test designs), pages for Logging in, buttons for navigating through the website were added, and efforts to increase the visual appeal of the website. In the third week, we started learning how the backend works and implemented it on the fourth week. Commits to GitHub were made every week as soon as a particular section of the website was completed by every member.

Indeed it was a nice experience with helpful teammates and mentors.

TECH STACK

(APPLICATIONS AND FACILITIES USED IN DEVELOPMENT PROCESS)

For Web-development,

Frontend

1. Tailwind CSS
2. React js

Backend

3. Firebase

For Communication,

1. Discord
2. WhatsApp

Repository/version control

1.Github

INDIVIDUAL CONTRIBUTION

1. Ghanavanth T

- Login page
- Course page
- Semester page

2. Bhuvan Sridhar

- Navbar
- Feedback page

3. Pritam

- Home page
- Unit page

4. Mahalasa SP

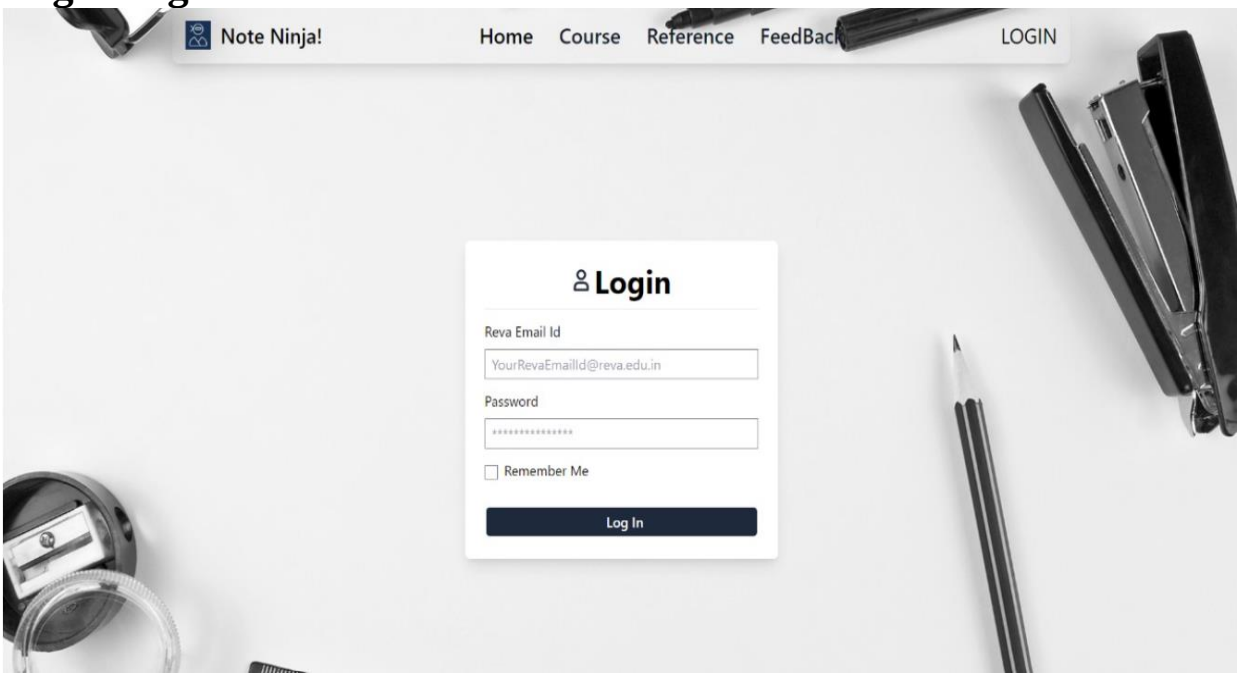
- UI
- Reference page

Quick Access link

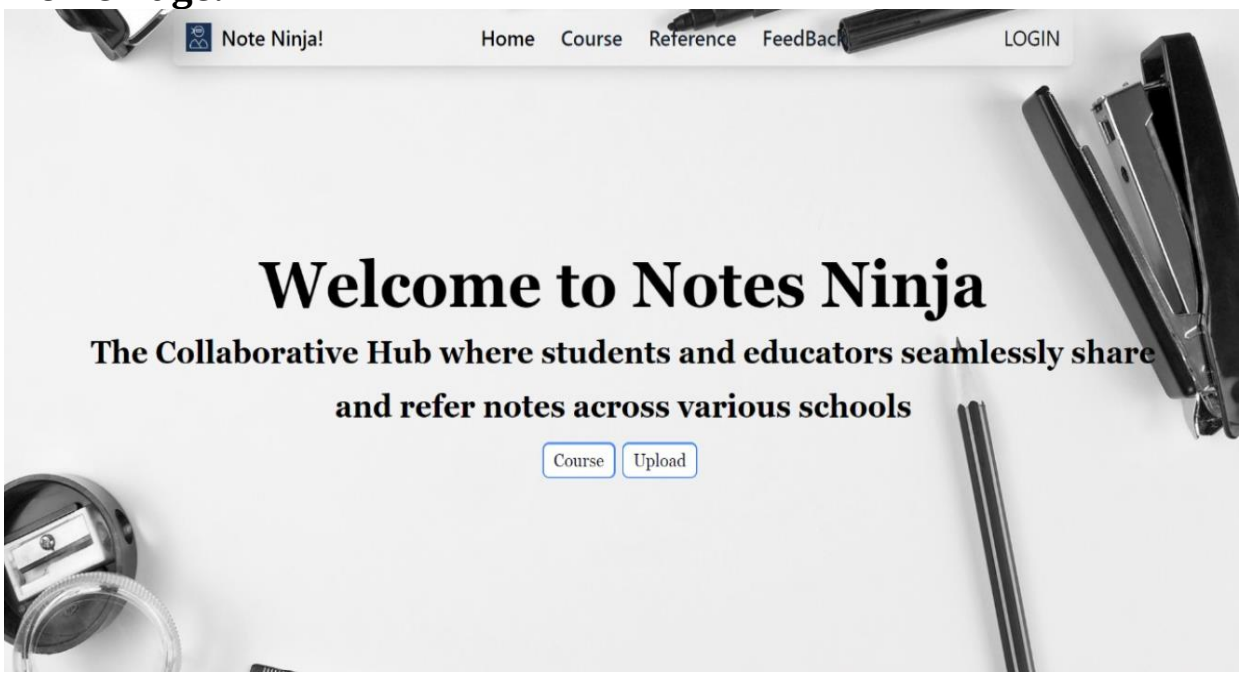
Github link 1
https://github.com/Ghanavanth-T/WebDev52
Github link 2
https://github.com/PritamP20/Notes-App

OUTPUT SNAPSHOTS

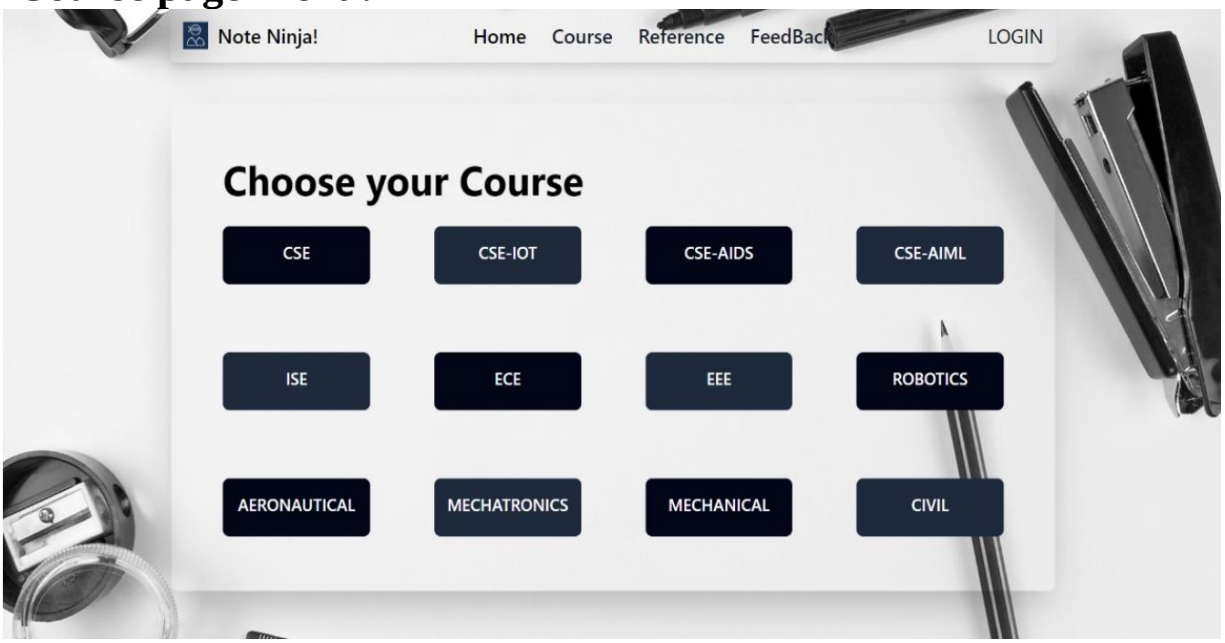
Login Page :



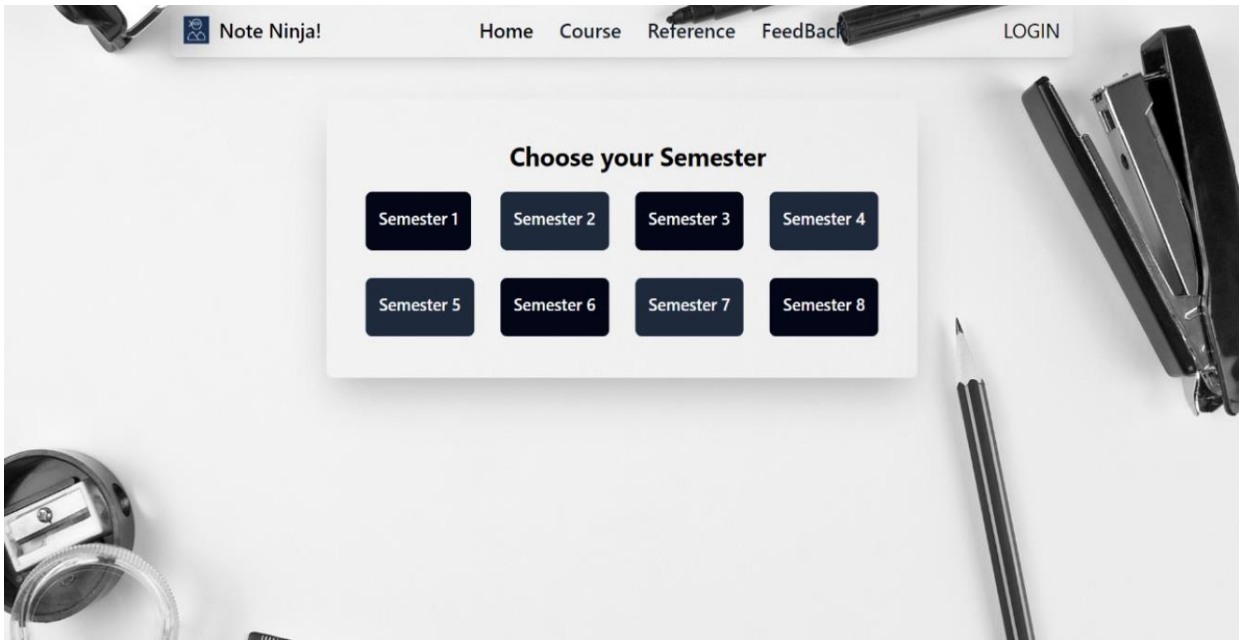
Home Page:



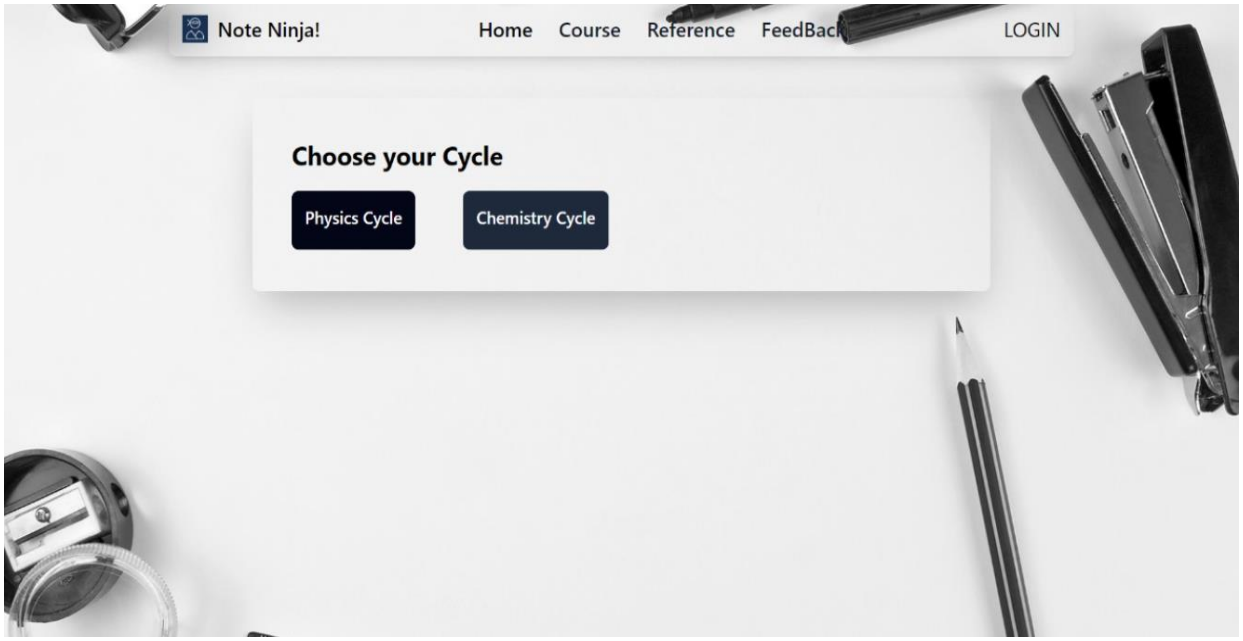
Course page Menu:



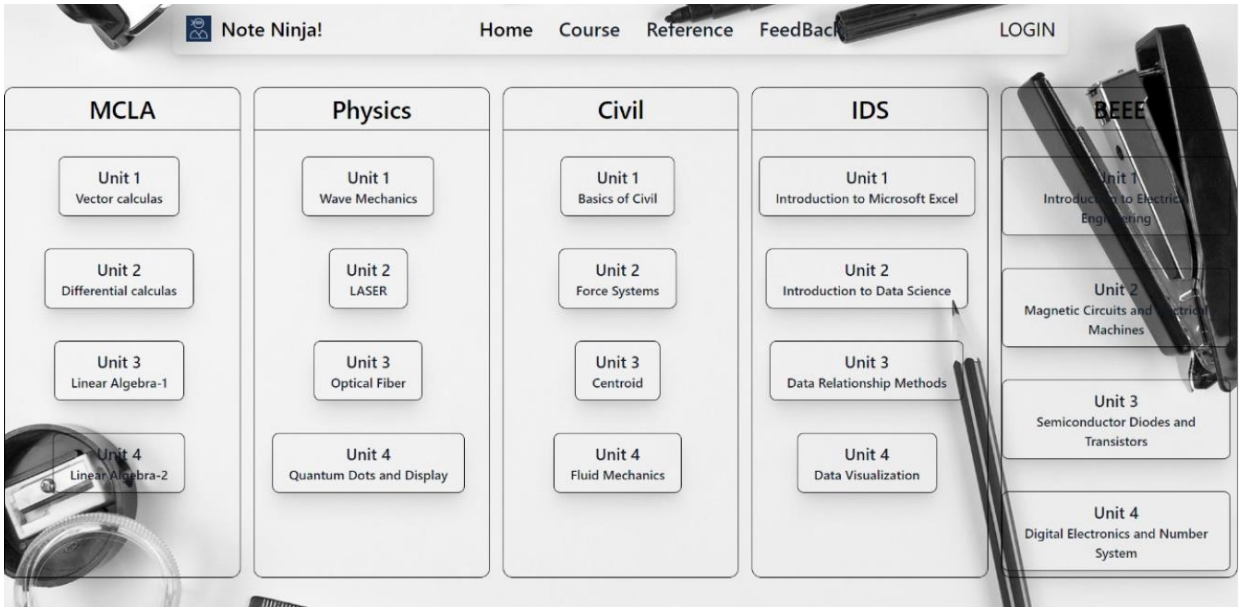
Semester page:



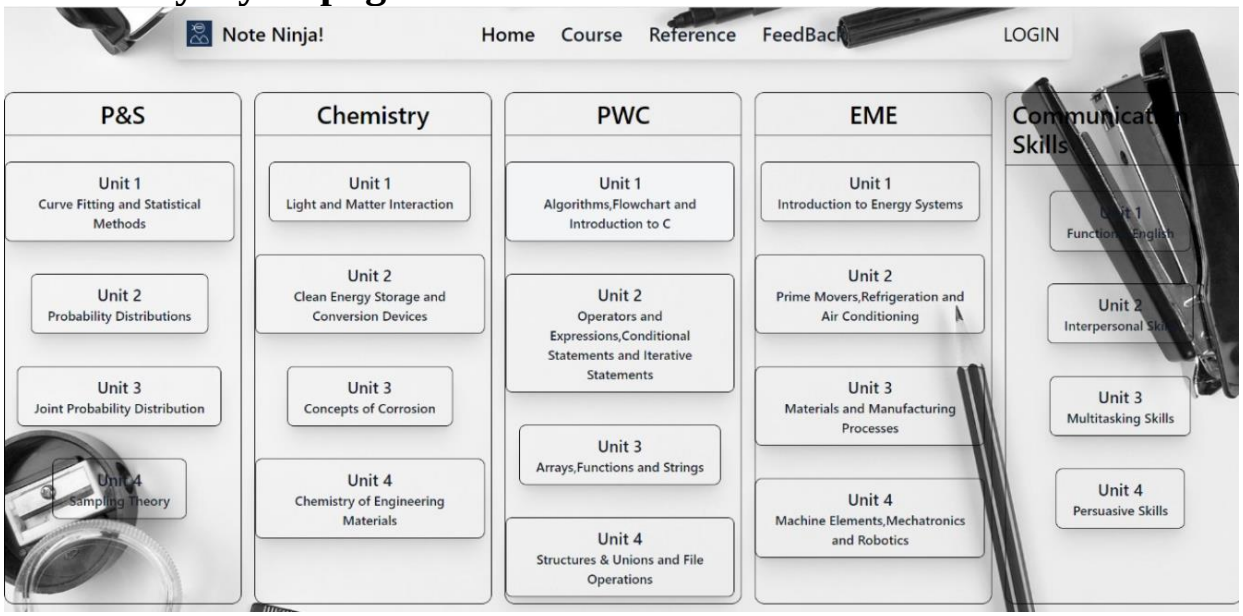
Cycle page:



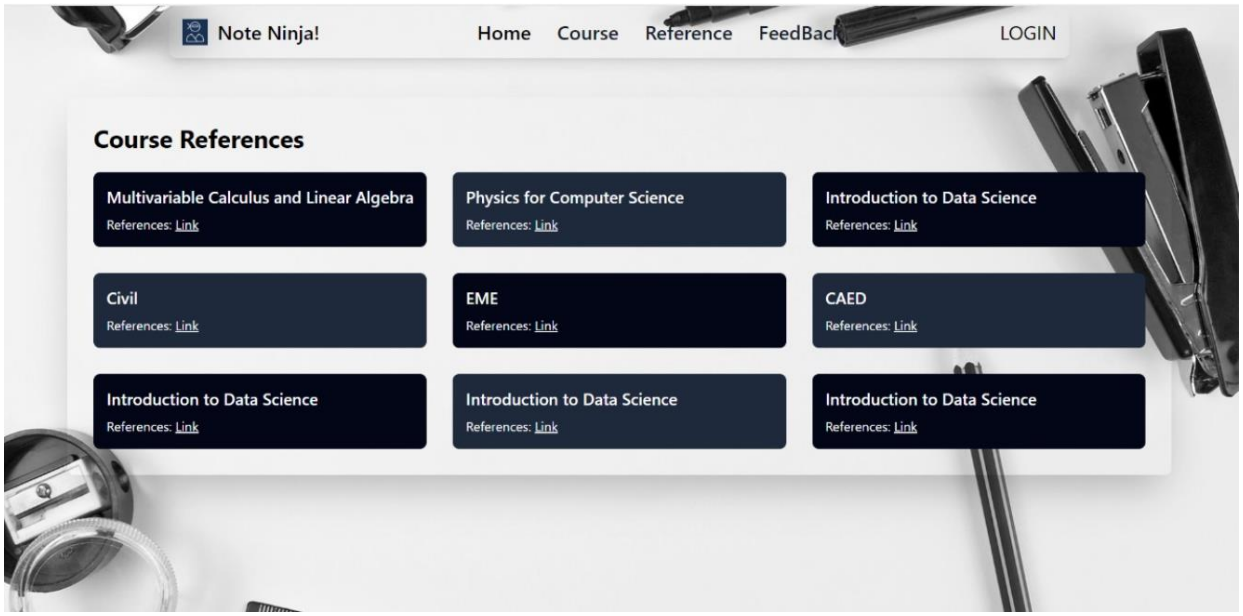
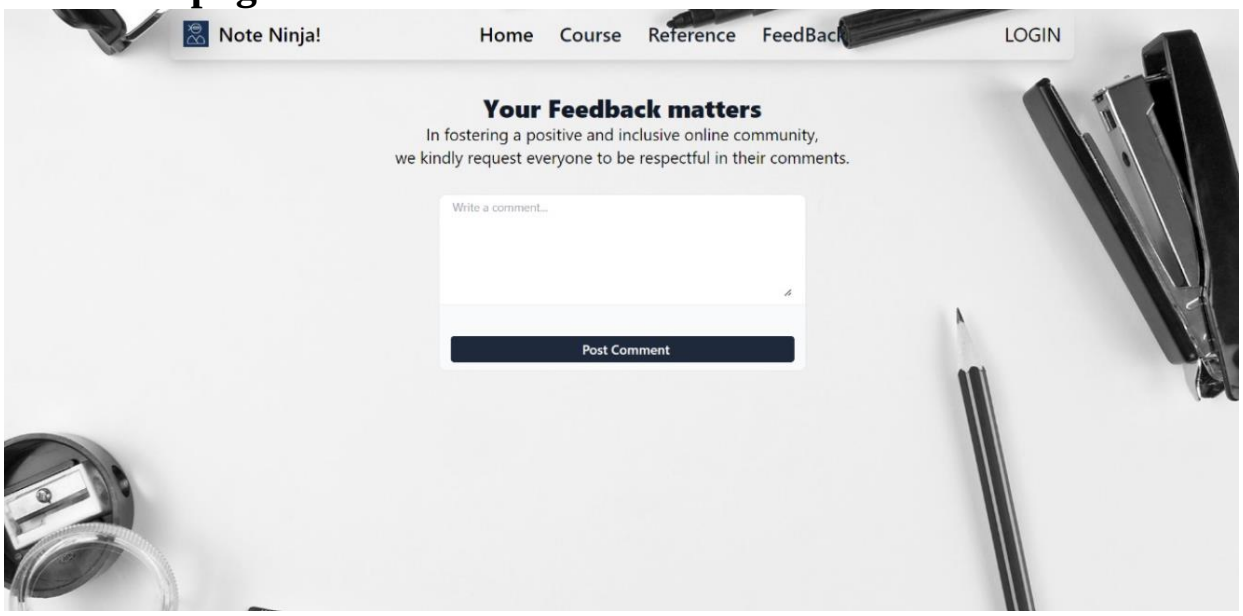
Physics Cycle:



Chemistry Cycle page :



Course Reference Page



Feedback page: