



Spring 2023 ITS Demo Swift App (Frontend Team)

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Presentation Overview - Sakshi

1. Initial Problem Space
2. Project Overview
3. App Feature Contributions
4. Tasks for Next Semester
5. Q & A



Project Overview - Sakshi

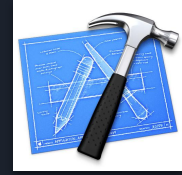


Initial Problem:

Existing ITS tools are not targeted for IOS devices and on-the-go studying

Existing app created to fix this was the Android Application but it was not supported by IOS devices

Project Overview - Sam



Semester Goals:

- Enhance the existing iOS application by adding new features and fixing existing bugs
 - Add new features such as a navigation bar, and flash card flip, settings page etc.
 - Improve the look of the app overall and enhance usability and have a complete front-end UI

Future Goals:

- Work with the ChatGPT team to help students with questions they are struggling With
- Combine the front-end and the backend so that the app is complete

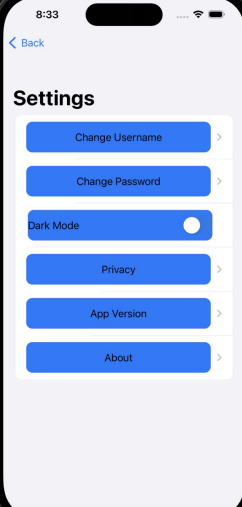
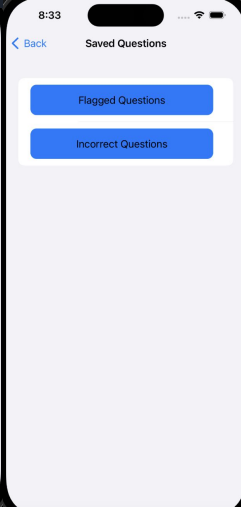
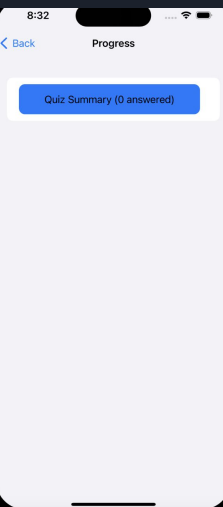
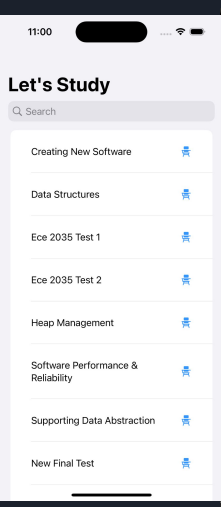
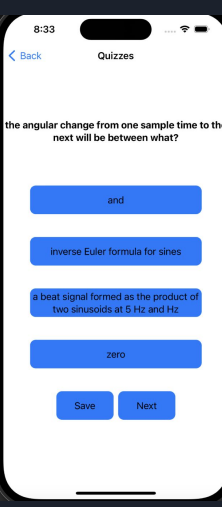
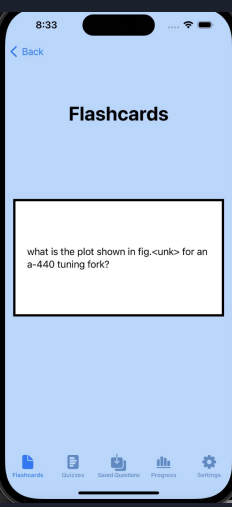
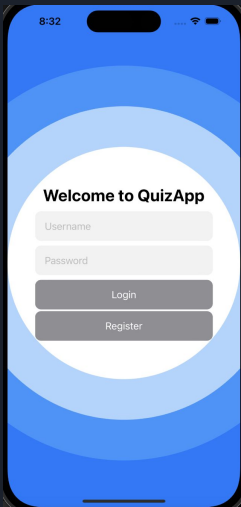




Restructure Code Base - Varun

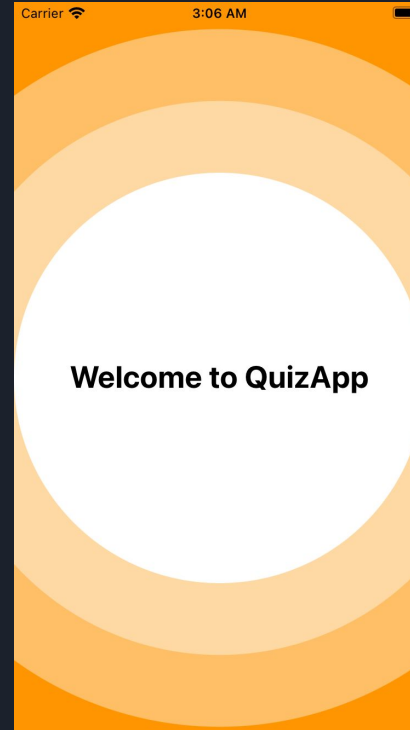
- All code was written in one file (LogIn.swift)
- Had to restructure and refactor all code to create separate files
- Reduce coupling and have high cohesion

Updated App UI - Sakshi



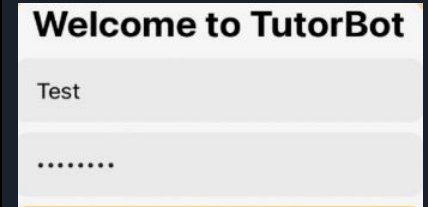
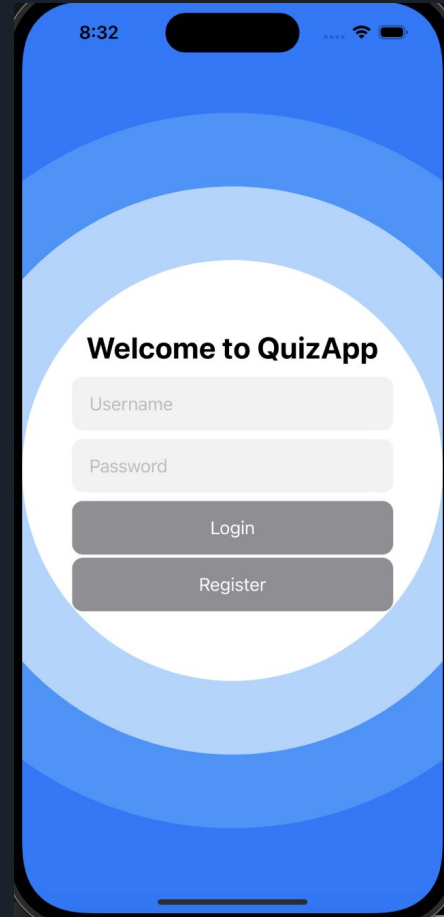
Splash Screen - Varun

- Edited android manifest and intent to create start screen
- Coded 2 second timer for initial screen
- Spawns on every instance of the app




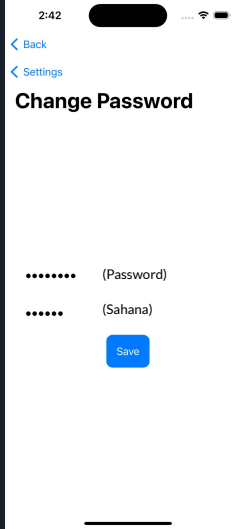
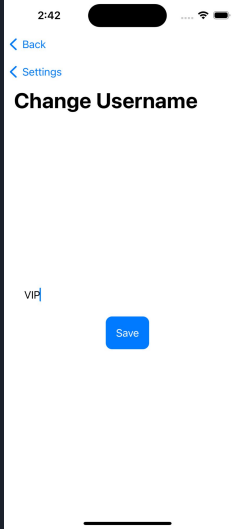
Login Screen -Varun

- Edited password so that the textfield is kept hidden
- Worked with cleartext fields to make them encrypted fields.



Change Username/ Change Password - Sahana

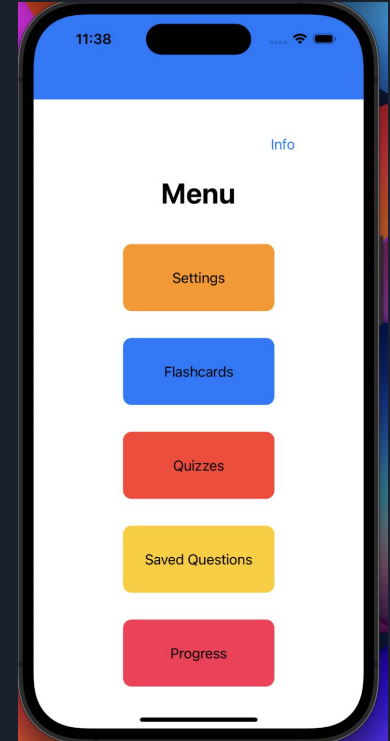
- Before no functionality for change username and change password
- Steps:
 - User enters new username or password
 - Goes back to login page
 - Password and username are checked
 - If it passes, then the user goes back to the menu page
- Future goal
 - Two-factor authentication system



```
if username.lowercased() == fromUser() {  
  wrongUsername = 0  
  if password.lowercased() == fromD() {  
    wrongPassword = 0  
    showingLoginScreen = true  
  } else {  
    wrongPassword = 2  
  }  
}  
  
else {  
  wrongUsername = 2  
}
```

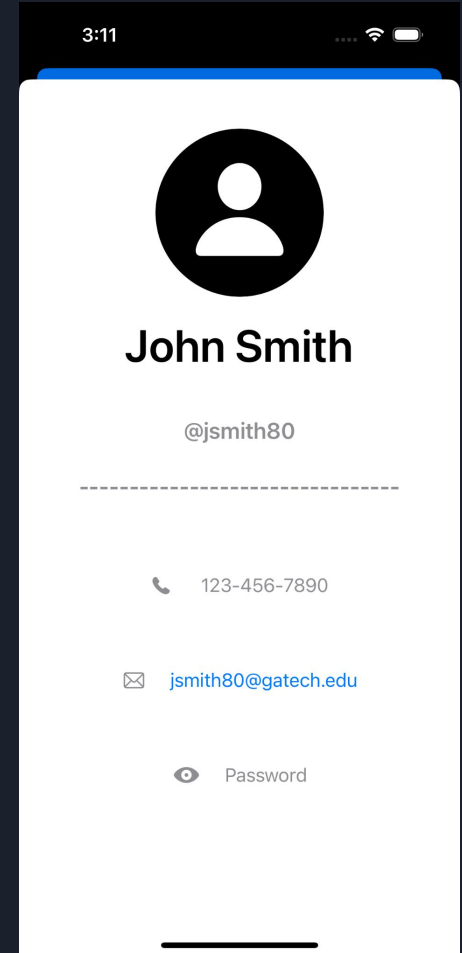
Menu Page Functionality/ UI - Sanjit, Varun

- The Menu page was created in order to be able to jump around to the different features offered
- Some buttons of the menu page were non-functional
- Redesigned the layout of the menu page
- Added functionality so that it centers all the values for the menu bar
- Adaptive to any device size



Info Page - Sahana

- The info page was created this semester for the user to have a personalized account on QuizApp
- Incorporated:
 - Name
 - Account Username
 - Phone Number
 - Email
 - Password
- Will Incorporate:
 - A point system
 - Current Level :
 - Bronze
 - Silver
 - Gold

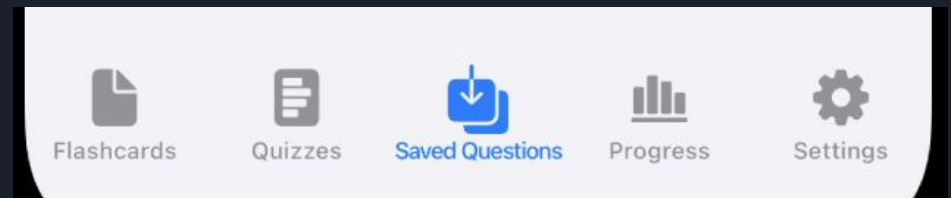
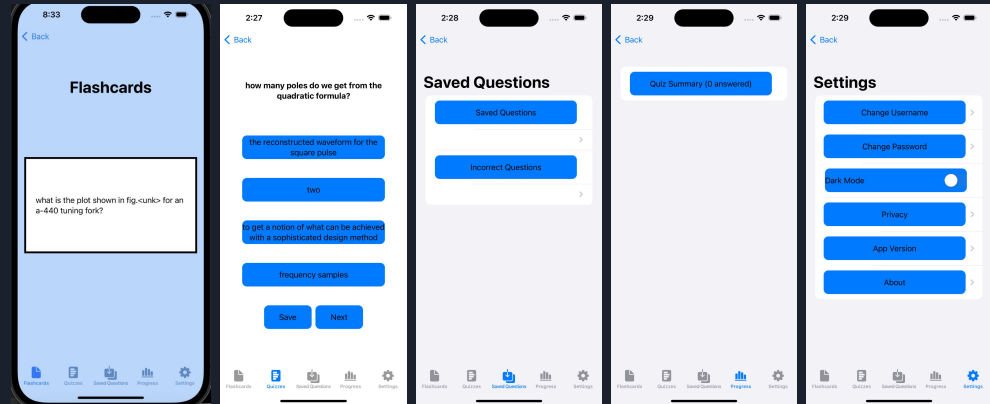


Navigation Bar - Sahana

Once the user clicks on one of the options on “Menu”, it goes to the page that was clicked, and on the bottom there is a navigation bar that follows through every page

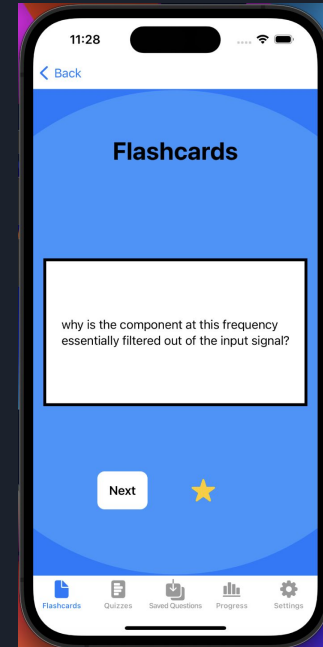
Before the user had to click the back button to navigate to another page

With the option of having a navigation bar, the user is now able to get to specific pages in an efficient manner



Updated Flashcard Question Screen - Sanjit

- This is the front of the Flashcard
- Clicking it will flip it to the back
- Several issues with old design
 - Was not able to flip over properly
 - Did not look like a flashcard
 - Too large
 - Background color made text hard to read
- Next button
- Star button



Search Page - Sam

The user can start by searching

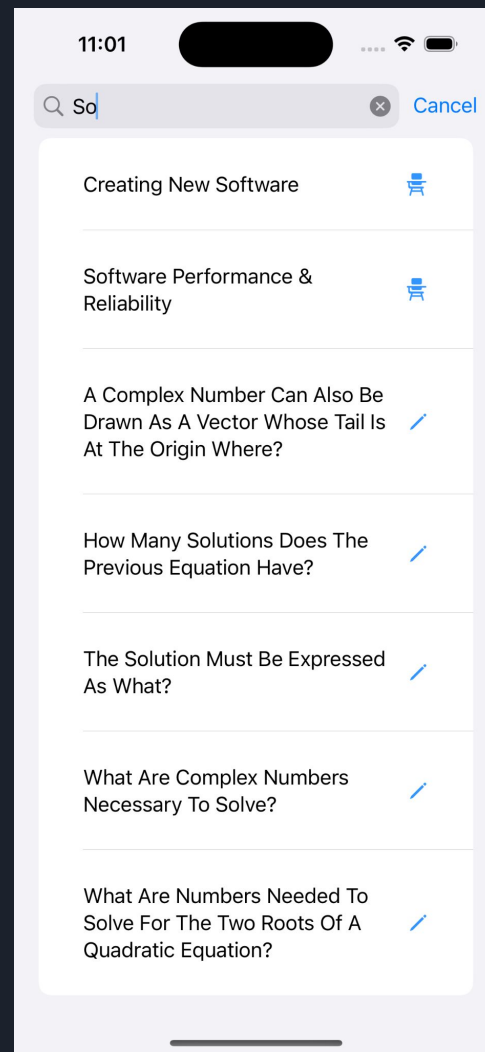
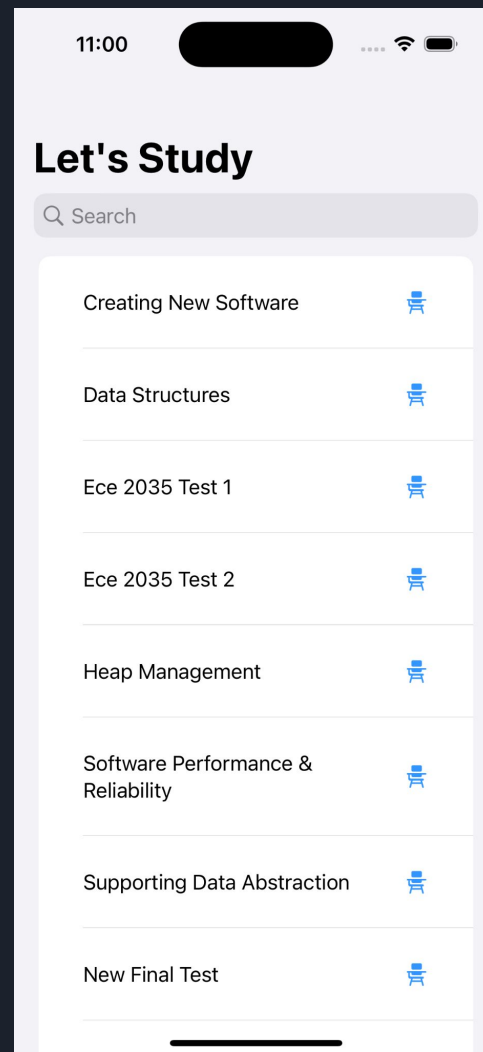
Can be Question or whole set

A desk icon represents Set

A pencil icon represents Question

Autocomplete feature enabled

Still need to be able to redirect to flashcard



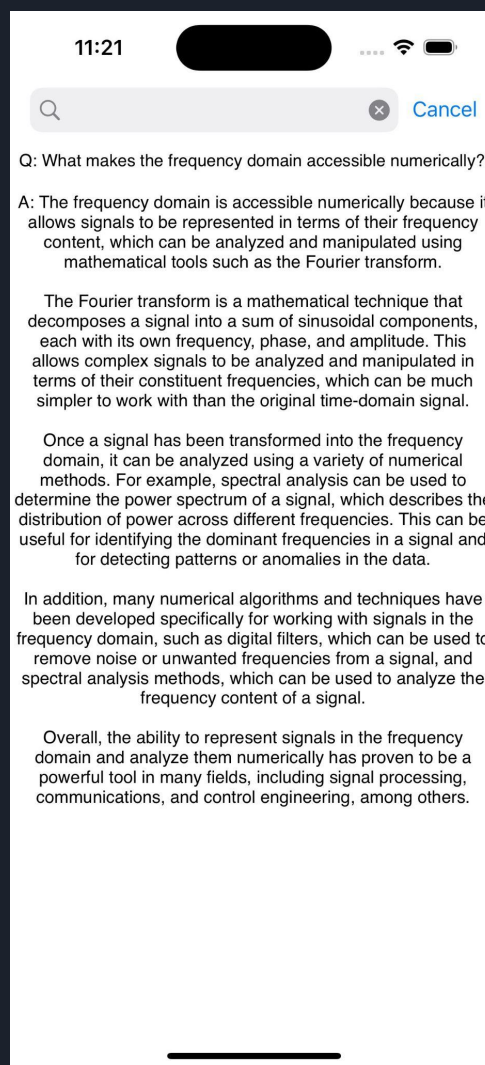


ChatGpt Functionality- Sam

The user can input question into the search page as is and expect a output from ChatGpt

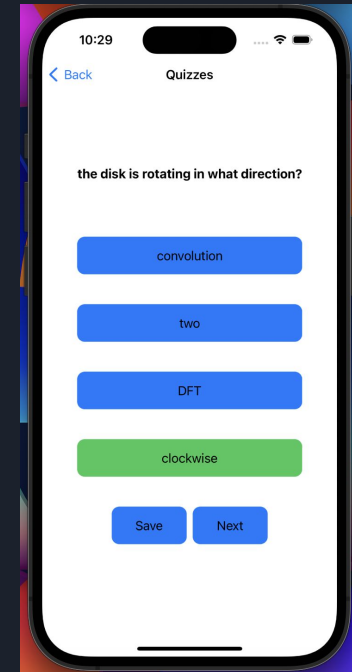
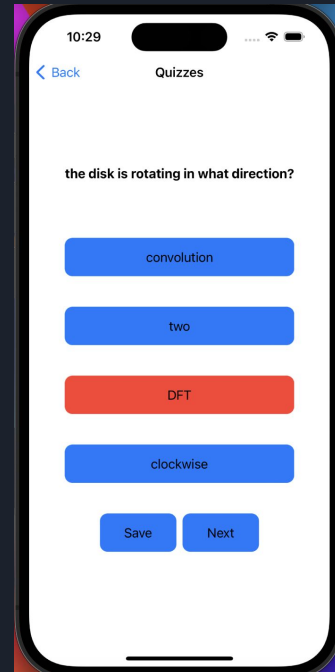
This is a very basic functionality that pulls form GPT-4 API

Still need to limit it to only be able to ask questions relating to topic



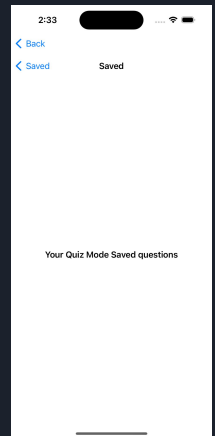
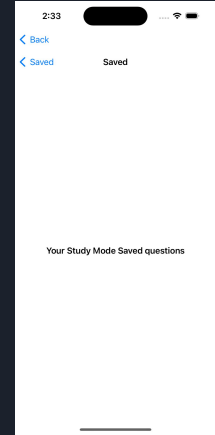
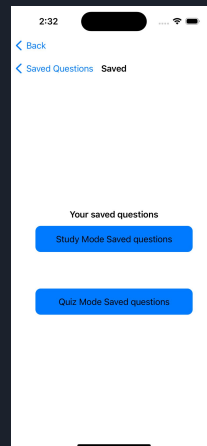
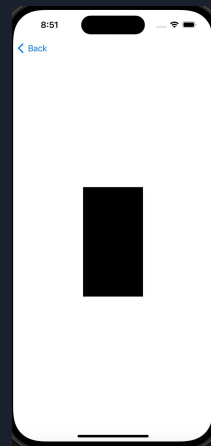
Updated Quizzes Question Screen - Sanjit

- Previously, the Quizzes Question Screen did not function properly
 - No Functionality
- Correct answers highlighted in green
- Wrong answers highlighted in red
- Next button



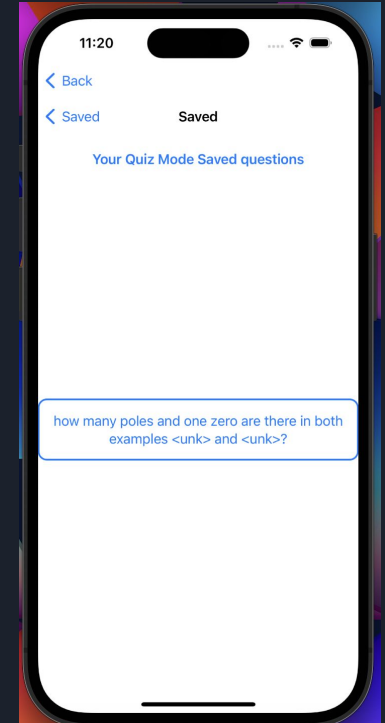
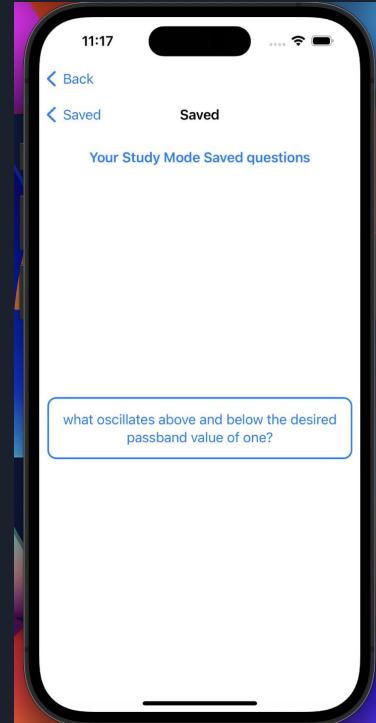
Saved Questions Page - Varun/Sahana

- Saved Questions Page was non-existent
- Created two options for the user
 - Flagged Questions
 - Incorrect Questions
- Saved/Incorrect Questions Tab leads to the “Study Mode Saved/Incorrect Questions” & “Quiz Mode Saved/Incorrect Questions”
- What is Study Mode?
 - Allows students to take more time on thoroughly learn the concepts
- What is Quiz Mode?
 - Allows students to quickly answer questions and check to see if they know the content well.



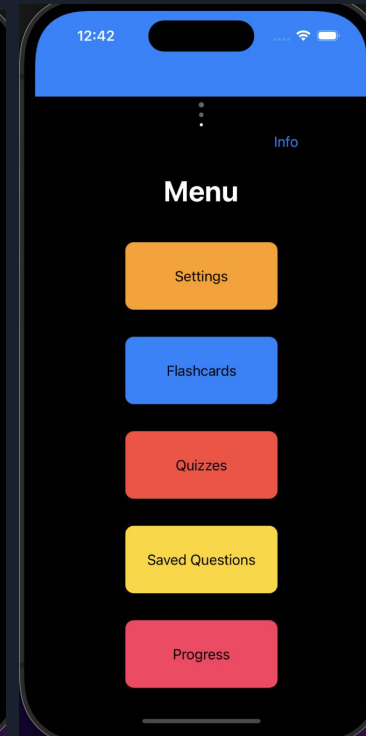
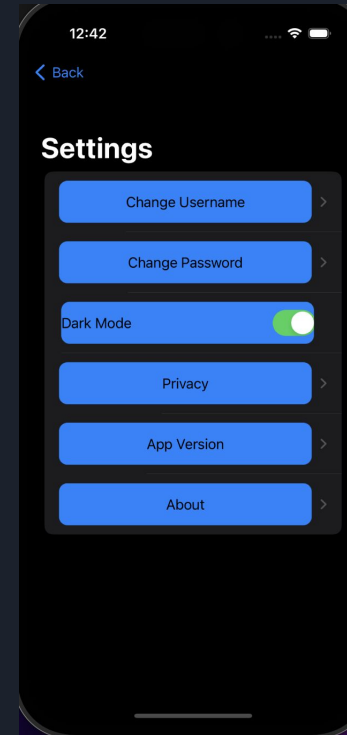
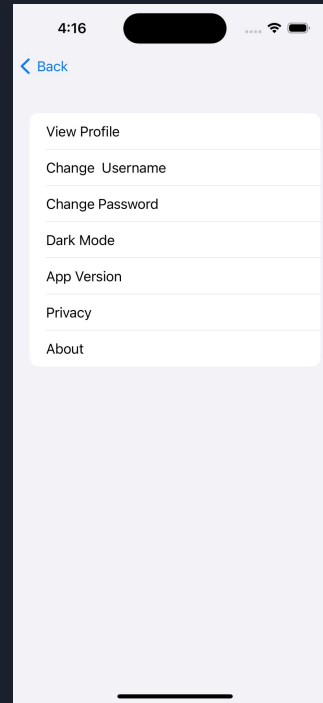
Saved/Incorrect Questions Tab - Sanjit

- There was no functionality for this page before
 - Study Mode Saved questions led to nothing
 - Quiz Mode Saved question led to nothing
- Functionality
 - Star button on flashcards
 - Flag button on quizzes
 - Saves the questions into lists
 - Displays into a text box on this field



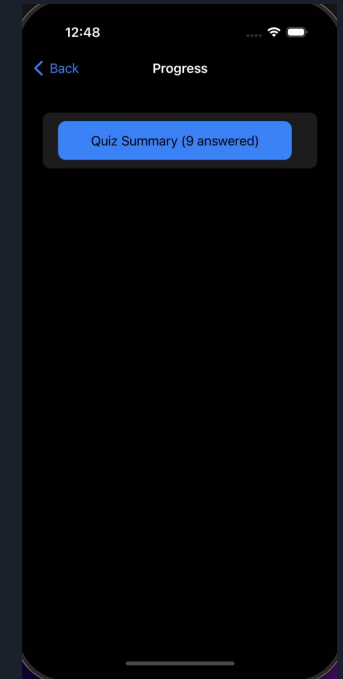
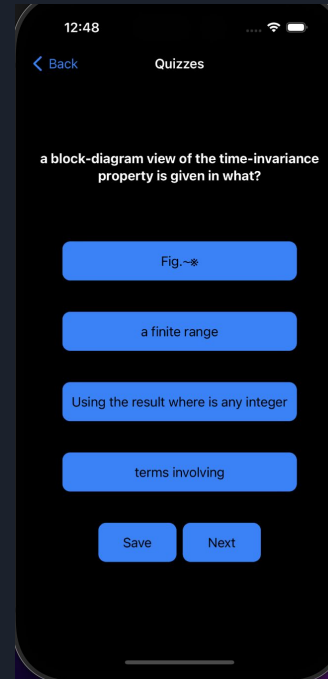
New Settings Page/Dark Mode -Varun

- I was able to add buttons to make it nicer
- Was able to be consistent with rest of the UI
- Learnt about system dynamics to code dark mode
- Able to keep dark mode consistent in app
- Dark mode stays on even when user exits app



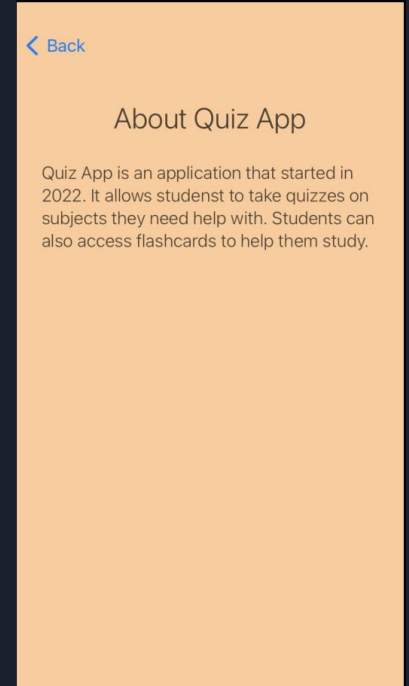
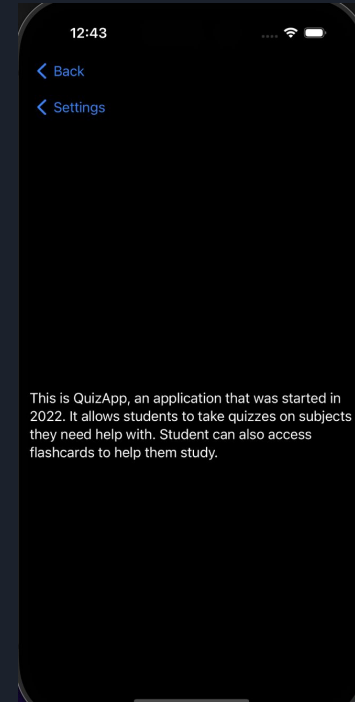
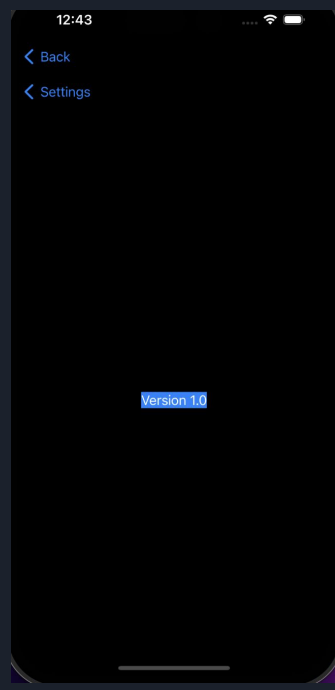
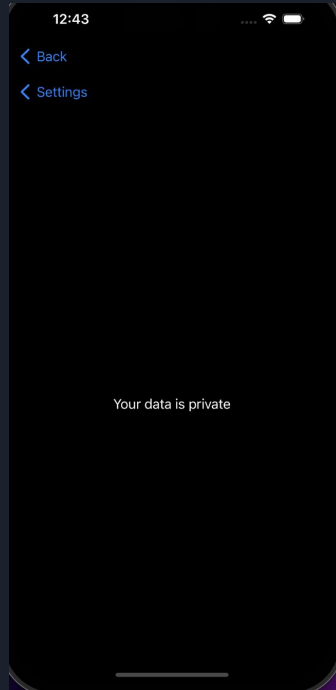
Quizzes Progress Feature - Varun

- Created progress for quizzes
- Allow user to see how many questions they use
- Working on saving question feature with Sanjit
 - Goal for next semester is to finish this



Privacy/Version/About Page

- Sakshi



Tasks for Next Semester: - Sam/Sakshi

- Work with ChatGPT team to see if we can integrate their functionality in a more thorough manner
- Try to merge the code from the backend to the front end
- Make sure that the progress screen is working and the backend works by saving the users progress
- Saving user progress so that it does not disappear every time you login



Questions?

