

CS385FZ Mobile Application Development

Lab 2 - tab navigation, user settings, and theme customization

Instructions

Based on the existing starter project (Moodle-CS385FZ-Week5-Example code 2), implement the following features:

1. Bottom Tab Navigation

Create two tabs:

- **Home** tab - Display RedNote-style posts, when a user taps a post, navigate to the Detail Page, show full post content and comments.
- **Me** tab

2. “Me” Page ((tabs)/me)

- If the user is logged in, display the username.
- If the user is not logged in, show “You are not logged in” and display Login and Register buttons.
- The Login button should navigate to the Login page, and the Register button should navigate to the Register page.
- The user account data should be stored in the `data/users.ts` file.

3. Drawer Navigation

- Add a Settings button on the “Me” page.
- When tapped, open a drawer navigation sliding in from the right side.

Hint: Use multiple _layout.tsx files to organize tab, drawer, and root navigation.

4. Language Settings

Inside the Settings page, allow the user to switch between Chinese and English.

The interface text should update immediately when the language is changed.

Hint: Implement language switching using expo-localization and i18next.

5. Light/Dark Theme

In **Settings**, allow the user to manually toggle between **Light Mode** and **Dark Mode**.

Bonus Task (Optional) :

6. Automatically switch themes based on system time:
 - Sunrise → Light Mode
 - Sunset → Dark Mode
7. Add an option to “**Follow System Theme**”, so that the app automatically adjusts to the system’s light or dark mode.

Submission Requirements and Grading

Project Code

- Submit your project code as a single ZIP file.
- The naming format should be: CS385_lab2_name_MU-student-number.zip
(Example: CS385_lab2_AlexSmith_MU12345678.zip)

Lab Report

- In addition to the code, submit a PDF report that clearly presents what you have done in the lab.
- The naming format should be: CS385_lab2_name_MU-student-number.pdf
(Example: CS385_lab2_AlexSmith_MU12345678.pdf)

There are five tasks in total. Each question is worth 20% of the total score.