CSCC01 Final Team Demo Outline

## I. Introduction

* App: Fitbook
* Description: Social Media Workout App
* Date: Thursday, Aug 10th

In the modern digital age, maintaining a consistent fitness routine often becomes challenging due to a lack of motivation and accountability. This is where Fitbook steps in. Envisioned as a groundbreaking fusion of fitness tracking and social networking, Fitbook caters to those passionate about health and wellness. This diverse group, characterized by their active lifestyle or desire to lead one, frequently interacts on social media platforms to connect and showcase personal accomplishments. Fitbook offers these individuals a unique space to not only display their fitness milestones but also immerse in a supportive community dedicated to health and fitness. Through our platform, users can seamlessly share workout regimes, engage with fitness-driven content, and monitor their physical progress, all while enjoying the camaraderie of a community that promotes positive competition and mutual encouragement. First, a prototype of our product.

## II. Presentation Components

### Demo (5 minutes)

#### A. Introduction and Landing Screen

- Introduction of FitBook.

- Demo the landing page for new users.

#### B. Authentication

1. Sign Up:

- Show how a prospective FitBook user can register an account.

- Indication of sign-up failures and reasons.

2. Login:

- Demonstrate login page and the process of entering credentials.

- Display visual indicators for invalid username/password.

- Logging in using email and password.

3. Forgot Password:

- Illustrate the "Forget Password" button on the login page.

- Demonstrate the process of entering an email to receive a verification code.

- Showcase the password reset screen.

4. Settings & Logout:

- Display how a user can access account settings and manage preferences.

- Demonstrate the logout feature.

#### C. User Profiles

1. Creating Profiles:

- Uploading user details: name, username, bio, and profile picture.

- Changing profile details.

2. Viewing Profiles:

- How to view one's profile details including name, workouts, and statistics.

#### D. Home Page & Feeds

1. Home Page Overview:

- Introduction and suggested followers.

- Navigation to different parts of the app.

- search other users

2. Viewing Posts:

- Demonstrate viewing workout posts from followers.

- Showcase the difference between user feed and homepage feed.

#### E. Workout Features

1. Workout Workflow:

- Display the exercise list for adding to workouts.

- Introduce routines - seeing created workouts and creating new routines.

2. Logging Workouts:

- Recording exercises, reps, weight, and number of sets.

- Visualize progress over time through fitness progression features.

#### F. Social Features

1. Searching Users:

- Illustrate how to search for other users.

2. Friend Management:

- How to follow and unfollow users from the friends screen.

#### G. UI & Miscellaneous Features

1. Image Picker Functionality:

- Demonstrate accessing the camera and gallery for image uploads

2. Initial App Introduction for Sign-Up.

3. Backend Features:

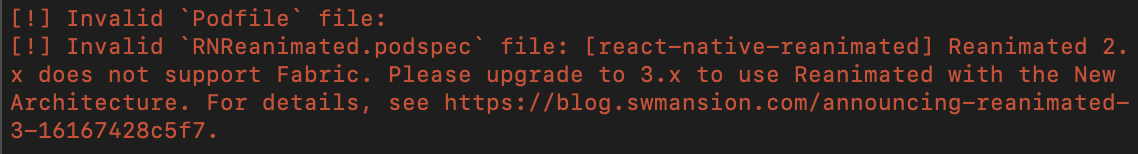
- Showcase user backend support for profile pictures and posts.

- Mention user followers and following backend mechanisms.

### Process Discussion (3 minutes)

* + Overview of the team's workflow.
    - Good, we all worked hard to complete the required tasks.
  + Communication methods.
    - Slack, Voice Calls, Share Screens
  + Usage of Git/GitHub.
    - PR Reviews
    - Branches
  + Task division.
    - Landing
    - Authentication
    - User Profiles
    - Home Page & Feeds
    - Workout Features
    - Social Features
    - UI & Miscellaneous Features
  + Significant decisions made during the project and their rationale.
    - User posts, posting workouts, differentiates us from other social media platforms
    - Creation of PR channel on Slack, streamline process
    - Decreasing the overall scale of the application after realizing that the number of features initially planned for the application was too large?
    - Primarily assigning tasks to team members by user story

### Technical Discussion (3 minutes)

* + React-native-simple-toast compatibility issues:
    - Conflicting compatibility issues with older versions of libraries in use (notably react-native-reanimated). React-native reanimated version 2.x was in use due to previous compatibility issues with a team member on a non-macOS system, which had conflicts with the simple-toast library. Thus, the solution was to find a different library that served a similar purpose without any compatibility issues.
    - Error messages  
      Initial error message when building the project with simple-toast:  
      CompileC /Users/user/Library/Developer/Xcode/DerivedData/BinBuddy-easgtqwgvhpqvoborkrbeezjoopp/Build/Intermediates.noindex/Pods.build/Debug-iphonesimulator/react-native-simple-toast.build/Objects-normal/arm64/RNSimpleToast.o /Users/user/Documents/CSCC01/final-project-s23-algo-assassins/front-end/node\_modules/react-native-simple-toast/ios/RNSimpleToast.mm normal arm64 objective-c++ com.apple.compilers.llvm.clang.1\_0.compiler (in target 'react-native-simple-toast' from project 'Pods')  
      (1 failure)  
        
      Attempts at installing simple-toast with:  
      yarn add react-native-simple-tast  
      cd ios && RCT\_NEW\_ARCH\_ENABLED=1 pod install  
        
      Which indicates incompatibility with react-native-reanimated version 2.x
    - Main insight gained involves debugging technical issues such as library compatibility issues. The initial error received gave several possibilities for sources of error, including outdated XCode, possible hardware issues with the new m1 silicon chip, etc. After trial and error on suggested solutions, we were able to find the root cause by visiting the simple-toast official documentation
  + User profile implementation issues
    - Each user that signs up for FitBook can add their personal information and display it in their respective user profiles. However, after editing the user information in the edit profile component of the profile screen, the information would not immediately refresh on the profile screen. The issue was that the information was being updated in the backend, meaning the API is working but it was not rendering the updated user information again on the profile screen
    - This problem also extended to another functionality: if the user would like to search for another user, how would their profile be generated dynamically?
    - Solution: We created a user method in backend that can be called and using the useIsFocused library in react native, we were able to make it so that every time the user physically navigates back to the profile screen, we have a useEffect that queries the user information and thus updating it on the screen and displays the user’s edits. For other users other than the current user, we created another page that is meant for rendering all other FitBook users other than the current user. Using a similar concept, a callback function is used to query respective user information that passes in a specific user’s email from the search bar (assuming that user exists in the database).
  + Description of 1-3 technical challenges/issues faced.
  + Illustration through code snippets, screenshots, or other artifacts.

### Software Architecture (3 minutes)

* + Breakdown of software components and their roles.
    - Front-end
      * React-native
        + IOS & Android
        + Screens

Landing

Login

Signup

Tabs

Home

Workout

Profiles

Routines

Profiles

Friends

Workout

Settings

* + - * + Components

Profile Header

Progress Chart

Image Picker

Post Card

Search Bar

Follow Card

Welcome Card

* + - * + Utils functions

User

* + - Backend
      * Express.js & MongoDB
        + User
        + Routine
        + Exercise
        + Workout
  + Interaction between software components
    - Sign up posts a new user
    - Login calls user to auth functions
    - Home queries for user details
    - Workouts post workouts, query workouts, query user workouts
  + Overview of technologies and tools utilized.
    - React-native
    - MongoDB
    - Typescript
    - Express.js
    - IOS & Android
  + Discussion of unique technical challenges and techniques used
    - .

### Individual Contribution (1 minute per team member)

* + Each member's main contributions.
  + Lessons learned by each member.

#### Henry

Some of my main contributions are the app initialization and app outline,I also did the Front-end pr reviews and lots of testing/bug fixing. One thing I learned, is that it is important as a front-end lead to do proper testing and to do it on time in order to push out features faster when there are lots of prs to review.

#### Kenny:

My main contributions include the implementation of the sign-up front-end, and connecting it with the back-end API to enable users to sign up for an account on Fitbook. I also implemented the posting of workouts to our database, as well as the posting of routines to the database. I designed the schema for workout objects and routine objects, and implemented the corresponding endpoints as well.

#### Aliel:

Main contributions were involved in the full stack development of workouts and routines. I implemented the front-end and back-end of starting workouts and adding exercises to workouts, and also displaying a user’s saved routines. Another contribution was the implementation of getting and displaying workout progress through the workout progression chart. I also implemented the library for the front-end component to take pictures with the camera or select images from the gallery. One thing I learned from this project was working with different react native libraries and their compatibility with the app.

#### Jerry:

My main contributions involve designing the user interface for our application in Figma and overseeing front-end implementations for all features of our product. In terms of full-stack development, I was mainly responsible for the user profile services, creating methods to retrieve user profile information in the back-end using an API to generate user information and portray it in an aesthetic manner. Also implemented a settings screen and contributed to the friends screen as a part of the user profile for the user to see their friends and log out of the app.

#### Eric:

My main contributions to the project involved contributions to documentation, the initial landing screen, a part of the user authentication process (resetting login credentials), and an attempted aid with user posts (which was dismissed due to time limitations). Like other team members, as a full-stack developer, I was responsible for creating the necessary front-end components, such as screens for users to access the feature, and the backend endpoints to make updates to the database. Throughout the experience, I was able to familiarize myself with popular frameworks like React Native and Express JS, as well as learn of RESTful methods for communication. Lastly, I was able to experience working on a project as a team and the necessary use of project management tools, like JIRA and GitHub.

Jeremy:

My main contribution to the project involves setting up backend and then working on creating endpoints for tasks that needs to be accomplished. When setting up backend, I created a folder for routers for people to design endpoints in. As well as a models folder to design objects that are needed to store into the mongodb. I also connected our project to mongodb and managed any issues involved with that. I created endpoints that can store images to our databases as well. During the project I learned how to interact with team better as we worked through each sprint. That means utilizing Jira to the full potential to see which tasks are assigned to me and how long the task is expected to take. As well, I learned more about how to properly write a github pull request for people to review when I want to merge.

#### Ethan:

During this project, my main contributions were centered around full-stack development. I was responsible for implementing the login screen, the sign-up introduction screen, the friends screen, and the search bar functionality. I also generated the front-end documentation.In terms of learning, this project was my first introduction to the REACT framework, as well as the concept of front and back end. I also learned how to properly use JIRA with user story points, as for previous projects we used JIRA in more of a checklist manner.

## III. Q&A Session

* Anticipation of technical questions.
* Queries about team dynamics and collaboration.

## IV. Logistics

* Total time: 15-20 minutes.
* Date: Wednesday, Aug 9th - Thursday, Aug 10th.
* Registration details.
* Platform: Zoom, with further details to be provided.

## V. Evaluation Criteria

* Clarity and focus of the presentation.
* Value proposition to the users.
* Presentation quality and flow.
* Q&A handling and understanding.
* Overall project evaluation, including effort, work quality, and insights gained.