### **Weekly Notes (March 22 – 28)**

#### **Unaisa**

**Total Hours Worked:** 15

**Tasks Completed:**

* Changed the theme to a more modern style as per TA’s suggestion.
* Replaced the “dark mode” button with Moon and Sun icons for better UX (as suggested by Professor).
* Implemented the ability to edit and delete playlists.
* Added the "Add to Playlist" option next to the play button.
* Improved UI/UX by refining color schemes, layout consistency, and implementing dark mode toggle.
* Debugged and fixed issues related to couple functionality.
* Integrated real API fetching for AI recommendations (still using mock data, needs real API integration).
* Implemented a search results section to display recent search results.
* Successfully connected Last.fm API to fetch:  
  + Trending Songs
  + Search Results
* Refined UI components.

**Tasks for Next Week:**

* Implement image integration in musicHub.html (e.g., album covers, artist images).
* Ensure smooth frontend-backend communication.
* Replace mock AI recommendations with real API data.
* Possibly explore third-party music recommendation APIs (to discuss with the frontend team).

#### **Brandon Maweu**

**Hours Worked:** 10

**Accomplishments:**

**Frontend Development**

* Set up the Login and Register pages using modern UI components.
* Ensured responsive layout and intuitive UX.
* Validated input fields to catch common form errors.

**Backend Integration**

* Connected Login and Register pages to backend using HTTP requests.
* Verified request/response handling for authentication and account creation.

**API Routes**

* Created /login and /register routes.
* Ensured RESTful API design with proper status codes and messages.

**Security**

* Implemented basic validation and error handling.

**Next Steps:**

* Add JWT-based authentication to protect user sessions and API endpoints.
* Hash important details such as passwords when transmitting them.
* Implement error feedback on the frontend for failed login or registration attempts.

#### **Vijay**

**Total Hours Worked:** 10 (20 over spring break)

**Tasks Completed:**

* Fixed stock input to handle all 503 S&P 500 stocks.
* Improved recommendation accuracy based on competitors.
* Refined summary output.
* Completed the entire Music Recommender module.

**Tasks for Next Week:**

* Integrate music and stock features into the backend.
* Support frontend development for sports video output.

#### **Aidan Turgut**

**Hours Worked:** 7

**Tasks Completed:**

* Began frontend-backend integration discussions with Brandon and Vijay.
* Took notes on integrating ChatGPT API for AI assistant.
* Created welcoming page, sign-in page, and login page:  
  + Sign-in/login include JavaScript variables for user data.
  + Sign-in page shows file name upon file upload.
* Integrated Unaisa’s page into the app.

**Tasks for Next Week:**

* Collaborate with Brandon, Vijay, and Aisha to integrate their work into UI.
* Start using backend APIs (e.g., stock data).
* Improve page styling using CSS/CSS frameworks.
* Add functionality enhancements if needed.

#### **Aamir Mohammed**

**Hours Worked:** 11

**This Week:**

* Designed modern and clean UI/UX for the sports page.
* Researched and started using Bootstrap 5 for future-proof styling.
* Brainstormed interactive ideas (e.g., rotating score cards).

**Next Week:**

* Finalize UI/UX and implement page functionality.
* Work on welcome page UIUX design as well
* Integrate APIs for sports scores/news.
* Collaborate with backend team to connect data and AI features.

**Aisha**

**Tasks completed: (20 hours)**

* Faced multiple dependency issues and import errors with spring boot security packages
* After back and forth, fixed the dependency problem by cleaning and correctly importing required Security packages.
* Faced 401 Unauthorized and 403 Forbidden errors repeatedly.
* Also tested using postman to narrow down the issue- getting same error
* tried removing spring security dependency temporarily
* tried adding basic auth in Postman
* None worked because Spring Security was still auto-configuring and expecting credentials.
* realized problem with one of the packages
* Missing imports due to incorrect or incomplete Maven dependency.
* Fixed by cleaning project, re-adding dependencies, and refreshing Maven.
* All security issues are now cleared and new issue started: 400 Bad request while testing register user API
* Discovered that PostgreSQL users table had a password column marked as NOT NULL but existing old rows did not have values → causing DDL errors and application startup failures.

Tasks for Next week:

* Drop the existing users table in pgAdmin
* Fix 400 Bad request error
* re test register api
* implement login endpoint
* Add authentication filter using JWT.
* Implement Token Validation that will generate, validate and extract tokens