**Libraworks Milestone Master Plan**

**Grant Saylor, Kyle Smith, Anthony Tran, Jiayi Xu**

***Libraworks’ Virtual Library***

**01/14/2021**

**SPRINT 1:**

**Milestone Objective:**

*Database Usability: Database Structure and Login Functionality*

***Grant Saylor:***

**Development Focus:**

Login Screen Interfacing with Database

**Estimated Development Time: 9 hours (overestimation)**

**Notes:**

Figuring out how to connect the login screen activity with the Firebase database (i.e. I have registered my account, is it now in the Firebase?) Authentication via Google?

**Amendments to Original Plan:**

***Kyle Smith:***

**Development Focus:**

Filling out the Firebase NoSQL database

**Estimated Development Time: 9 hours (overestimation)**

**Notes:**

Determining the file system structure, how are files going to be appropriately stored into our database? How are multiple copies of books handled?

**Amendments to Original Plan:**

***Anthony Tran:***

**Development Focus:**

User Interface for Registration and Privacy Policy Integration

**Estimated Development Time: 9 hours (overestimation)**

**Notes:**

**Amendments to Original Plan:**

***Jiayi Xu:***

**Development Focus:**

Storing the JSON information in the Firebase and Utilizing it in the App.

**Estimated Development Time: 9 hours (overestimation)**

**Notes:**

Once we grab the information from the OpenLibrary API we need to use the JSON to display appropriate information in the application (display book cover, author name, etc.) Jiayi will research and code this functionality.

**Amendments to Original Plan:**

**SPRINT 2:**

**Milestone Objective:**

*Mapping and Searching: Map and Search Functionality*

***Grant Saylor:***

**Development Focus:**

Adding Pins and Associated UI to Map

**Estimated Development Time: 9 hours (overestimation)**

**Notes:**

Grant will need to figure out how to add more pins to the map. This could be adding a button and when clicked it allows you to add a pin in your area. When this pin is tapped it will pop up how many books are there and the name of the library. This data is then associated to the database. This will include using the layout editor and Firebase database. Grant and Kyle will work on the Mapping team of this sprint.

**Amendments to Original Plan:**

***Kyle Smith:***

**Development Focus:**

Working on Filling out the Database

**Estimated Development Time: 9 hours (overestimation)**

**Notes:**

Kyle will work on figuring out how to add library location data to the database, whether that is an address or lat/longitude, etc. This is associated with the map screen and he will work to organize this data in the Firebase database. This will include using the layout editor and Firebase database. Kyle and Grant will work on the Mapping team of this sprint.

**Amendments to Original Plan:**

***Anthony Tran:***

**Development Focus:**

Querying the Database (Book Search)

**Estimated Development Time: 9 hours (overestimation)**

**Notes:**

Anthony will work on building out the UI and functionality for querying the database on the Book Search screen which is accessed via the main screen of the app, this is to see all books in the app ecosystem, presenting the appropriate books at the appropriate library. This will include using the layout editor and Firebase database. Anthony and Jiayi will work on the Searching team of this sprint.

**Amendments to Original Plan:**

***Jiayi Xu:***

**Development Focus:**

Querying the Database (Library Screen Book Search)

**Estimated Development Time: 9 hours (overestimation)**

**Notes:**

Jiayi will work on building out the UI and functionality for querying the library circulation screen, which is to see what books are in one specific library. This will include using the layout editor and Firebase database. Jiayi and Anthony will work on the Searching team of this sprint.

**Amendments to Original Plan:**

**SPRINT 3:**

**Milestone Objective:**

*User Accounts:**User Account Features*

***Grant Saylor:***

**Development Focus:**

**Estimated Development Time:**

**Notes:**

**Amendments to Original Plan:**

***Kyle Smith:***

**Development Focus:**

**Estimated Development Time:**

**Notes:**

**Amendments to Original Plan:**

***Anthony Tran:***

**Development Focus:**

**Estimated Development Time:**

**Notes:**

**Amendments to Original Plan:**

***Jiayi Xu:***

**Development Focus:**

**Estimated Development Time:**

**Notes:**

**Amendments to Original Plan:**

**SPRINT 4:**

**Milestone Objective:**

*Synergy: Ensuring All Screens Connect and Interact Properly*

**Grant Saylor:**

**Development Focus:**

**Estimated Development Time:**

**Notes:**

**Amendments to Original Plan:**

**Kyle Smith:**

**Development Focus:**

**Estimated Development Time:**

**Notes:**

**Amendments to Original Plan:**

**Anthony Tran:**

**Development Focus:**

**Estimated Development Time:**

**Notes:**

**Amendments to Original Plan:**

**Jiayi Xu:**

**Development Focus:**

**Estimated Development Time:**

**Notes:**

**Amendments to Original Plan:**