

**Mybrary App Instructions**

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**Description**

This application is for the members of Mybrary, a school library for North Creek High School. It is a library management application that assists students to electronically handle and check-out/reserve books. It consists of several features, starting from login and sign up, which allows the user to verify that he/she is a North Creek High School Mybrary member. It also allows users to do much more, such as browse through a variety of books, check in and/or check out certain books, and put the books which are out of stock at that moment on hold. Furthermore, the application also effectively incorporates social media and lets the user like, comment and/or share certain books which spark the user’s interest. The application also provides a view of the library by displaying a map. This app is a very efficient way for high school kids to access the books available at Mybrary.

**Instructions**

**Installing the Application**

1. Download APK file on Android device from the location (<https://github.com/smartyshre/Mybrary/blob/master/mybrary.apk>)
2. Open the APK file from the device
3. This will install the Mybrary app on your device
4. Open the Mybrary App

**Launching the Application**

1. Open an android mobile device and tap on the “Mybrary” icon \*\*describe icon’s appearance\*\*
2. As soon as the application opens, wait about 3-5 seconds while the splash screen is displayed

**Using the Application**

1. …

**Exiting the Application**

**Environment**

**Compatibility**

The application is compatible with Android and Fire OS and runs on both platforms efficiently.

**Technologies Used**

**User Interface Layer:** This layer is the front end of the application for users to interact with the Library Management System.

* Android Studio – Written in Java and XML, this software acted as our application’s IDE. It was used to create the user interface and render user interaction.
* Balsamiq Mockups 3 – This software was used to create detailed and intricate sketches of the application’s user interface during the planning process.

**Back End Layer**: This layer has the database for all the books and transactions for user's checkout. In other words, this is the server-side layer.

* PHP – This script was utilized to identify user actions on the application and retrieve data from the front end to update the database accordingly. In other words, PHP was used to transmit data by connecting the database to the user’s side of the mobile application.
* MySQL workbench – This software was used as a database to store 2 types of data: user activity and the book catalogue. These two sets of data provided a collection of books available at Mybrary, while also providing user data, such as the amount of holds put on a certain book.
* Atom – This scripting software was used to write and develop the PHP code on the server’s side.

**Bugs and Enhancements**

**Bug History**

**Version 1.0.0** – All icons were not visible on the action bar of all screens.

**Version 1.0.1** – Some values pertaining to the sign-up page did not successfully get inserted into the database.

**Version 1.0.2** – Email formatting was not accurate in the “forgot password” screen.

**Version 1.0.3** – Library map was not zoomable.

**Version 1.0.4** – Action bar was constantly disappearing at certain screens.

**Version 1.0.5** – The “search” feature was not functioning properly.

**Version 1.0.6** – The notification feature was not functioning properly, and push notifications were inconsistent.

**Version 1.0.7** – The icon for “my account” and “bug reporting” was not as prominent and had to be changed.

**Version 1.0.8** – Notifications were not sending to the right device.

**Version 1.0.9** – Social Media employment was not correctly implemented, and the social media icons were linked to the wrong social media pages causing inaccuracies in social media integration.

**Version 1.1.0** – During the sign in process, each input was being described as an invalid credential.

**Enhancement Versions**

**Version 1.1.1** – The like and comment feature was added to the social media integration part of the application, allowing users to like the books that spark their interest, and comment their views on certain books through social media sites.

**Version 1.1.2** – The hold feature was added, and the holds per book was also tracked to assure that the same user does not hold the same book more than one time.

**Version 1.1.3** – The “forgot password” and “change password” features were added, in case the user had the need to alter his/her password.

**Version 1.1.4** – The zoom-in feature was added onto the image of the Mibrary map.

**Version 1.1.5** – The “save username” and “save password” features were added to the application for user’s convenience in remembering the username and password.

**Version 1.1.6 –** Scan to reserve book was added to make the user’s experience more convenient.

**Version 1.1.7** – The “search” feature was added to make it easier for the user to find a book amongst the variety of around 250 books. Along with that, the searches were being auto-populated based on the letter typed by the user.

**Version 1.1.8 –** The “pull to refresh” feature was added in order to refresh the application by pulling down on the screen.

**FAQs**

**Q:**

A:

**Q:**

A:

**Q:**

A:

**Support**