

**Mybrary Application 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, beginning with the 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 the catalog of books, check in/check out books, and put a hold on the books which are out of stock at that moment. 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. This application was developed by Shreshth Kharbanda, Kashish Kharbanda, and Rishabh Jain.

**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 with a head reading a book.
2. As soon as the application opens, wait about 3-5 seconds while the application loads and the splash screen is displayed

**Using the Application**

1. There are 3 tabs at the top of the screen: Catalogue, My Account, and Library Map.
2. The home screen of the app is the Catalogue view, which displays the list of books available at Mybrary. There is a database of 242 books available for the North Creek High students.
3. Scroll down on the Catalogue page to view the variety of books.
4. Each book has its title in black and bold font, its author in black font, its category/categories in red font, its call number in bold and blue font, and the amount of likes it has in grey font. (for more information on how to like a book, go to Step 15)
5. Tap on any book’s title and a context menu will appear at the bottom, asking the user to click on the preferred social media site’s icon to share it on that social media platform.
6. This share on social media feature allows a certain book to be shared on the social media platform of user’s choice, and it allows the user’s peers to like, comment, and share on the post.
7. There will be an option to report any bugs in the application on the top right of the screen, with a red lady bug icon.
8. Slide to the right to view the My Account screen, which asks for the user’s login credentials, i.e. the email ID and the password.
9. In case the user wants to verify the password they typed, click on the eye icon to the right of the password text box. This way, the application will display the user’s password.
10. If the user wants to hide the password again, click on the eye icon again. There should now be a line going through the eye icon.
11. Click on the save username and/ or save password to save the credentials. Click on stay logged in to keep the user logged in even if he/she exits the application. Since it is stored in the local cache, it is fully secure.
12. If the user forgets the password, click on the text that says forgot password. A dialogue box will appear, allowing the user to enter his/her email. Once the email address is entered, an email will be sent out to the user, allowing the user to reset his/her password.
13. If the user does not have an account yet, he/she has the choice to click on the text at the bottom that says “No account yet? Create one.”
14. That will open a new screen asking for several entries. Once those entries are completed, click the create account button.
15. Upon signing in or logging in, there will be a screen that mentions the user’s total fine. The screen will also mention the books checked out by the user.
16. The user will have an option to like any book(s) that they have checked out. To do this, the user must simply click on the thumbs up icon under the book’s details. The book will be liked once the icon turns blue.
17. There will also be the option for the user to log out at the bottom of the My Account screen.
18. There will also be a search icon in the top right of the screen, allowing the user to search the books checked out.
19. To the right of the search icon, there will be a lock icon which allows the user to change his/her password if needed.
20. As seen in the catalogue view, there will also be an option to report any bugs in the application on the top right of the screen, with a red lady bug icon.
21. Swipe right to open the library map.
22. Use two fingers to Zoom in or Zoom out of the library map.
23. Similar to the other two previous tabs, there will be an option to report any bugs in the application on the top right of the screen, with a red lady bug icon.

**Exiting the Application**

1. To exit the application, click on the home button of the device being used.

**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. [Resolved on ]

**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 process of creating a new account, each input field was described as an invalid entry.

**Modifications and Enhancements**

**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 Mybrary 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: Where can I download the Mybrary app?**

A: To install the application, downloaded the Mybrary.APK from the repository on GitHub (github.com/smartyshre/Mybrary).

**Q: How do I create an account if I don’t already have one?**

A: Open the app and go to the “My Account” tab. Then, click on the link at the bottom of the page, that reads “No account yet? Create one.”

**Q: I found a bug in the app. What do I do?**

A: Click on the bug icon in the action bar, and a dialogue box will appear. Once the dialogue box appears, enter the bug you have found. For more information, look at the support section of this document.

**Q: I want to scan the QR code of a book. Where do I do that?**

A: Open the application. Go to the “My Account” tab and sign in/login. Then, navigate to the “book database” tab on the bottom right side of the screen. Click on the “reserve book” icon, and then select “scan book.” Position the QR code so it aligns with the red horizontal laser inbuilt into the QR reader.

**Support**

If there are any questions or concerns that the users may have regarding the Mybrary application, please email us at [mybraryhelp@gmail.com](mailto:mybraryhelp@gmail.com) and we will get back to you within 3 business days.