**User Documentation**

**What This App Does**  
This Library Management System is an app to help organize a library’s items and people who can borrow them. Here’s what it can do:

* **Adding, Editing, and Deleting**: You can add books and magazines, change their details if need, or delete them if they’re not needed anymore.
* **Tracking Authors**: The app can keep a list of authors, including their name and birthdate, and shows which books they’ve written.
* **Managing Patrons**: It helps keep a list of people (patrons) who borrow items. Patrons can be students or employees, and each can be added, updated, or removed from the system.
* **Borrowing and Returning Items**: Patrons can check out books or magazines and then bring them back later.

**How to Use the Menu**  
When the app starts, a menu comes up with different options. Here’s each option, what it does, and what part of the project it covers:

* **1. Adam borrows Harry Potter**  
  Allows Adam to borrow "Harry Potter." This meets the borrowing requirement.
* **2. Mike borrows Vogue**  
  Lets Mike borrow "Vogue," which is another example of borrowing an item.
* **3. Adam returns Harry Potter**  
  This option lets Adam return "Harry Potter," covering the requirement to return items.
* **4. Mike returns Vogue**  
  Allows Mike to return "Vogue,” another part of the return feature.
* **5. Display all library items**  
  Shows everything in the library (books and magazines), helping see what’s available. This covers the requirement to manage and display items.
* **6. Display all patrons**  
  Shows all patrons in the system, helping keep track of everyone who borrows items.
* **7. Search for book by ID**  
  Finds an item using its ID, meeting the search requirement.
* **8. Search for book by Author**  
  Finds all items by a certain author, which is part of the search feature.
* **9. Search for book by ISBN**  
  Lets you find items by their ISBN, another search option.
* **10. Add The Hobbit to the library**  
  Adds a new item, "The Hobbit," showing how to add books to the library.
* **11. Remove The Hobbit from the library**  
  Removes "The Hobbit" from the library, meeting the requirement to delete items.
* **12. Add Garrett to patrons**  
  Adds a new patron, Garrett, showing how to add people to the library’s system.
* **13. Remove Garrett from patrons**  
  Removes Garrett from the system, covering delete patrons.
* **14. Edit Harry Potter’s ISBN**  
  Changes the ISBN for "Harry Potter." This shows how items can be edited in the library.
* **15. Add Harry Potter to J.K. Rowling’s written items**  
  Connects "Harry Potter" to J.K. Rowling, showing how authors and their items are linked.
* **16. Display all authors**  
  Lists all authors, the author management .
* **17. Add J.R.R. Tolkien to authors**  
  Adds a new author, J.R.R. Tolkien, for adding authors.
* **18. Edit patron Adam’s details**  
  Lets you update Adam’s details, to edit patrons.
* **19. Exit**  
  Stops the program and closes the menu.