

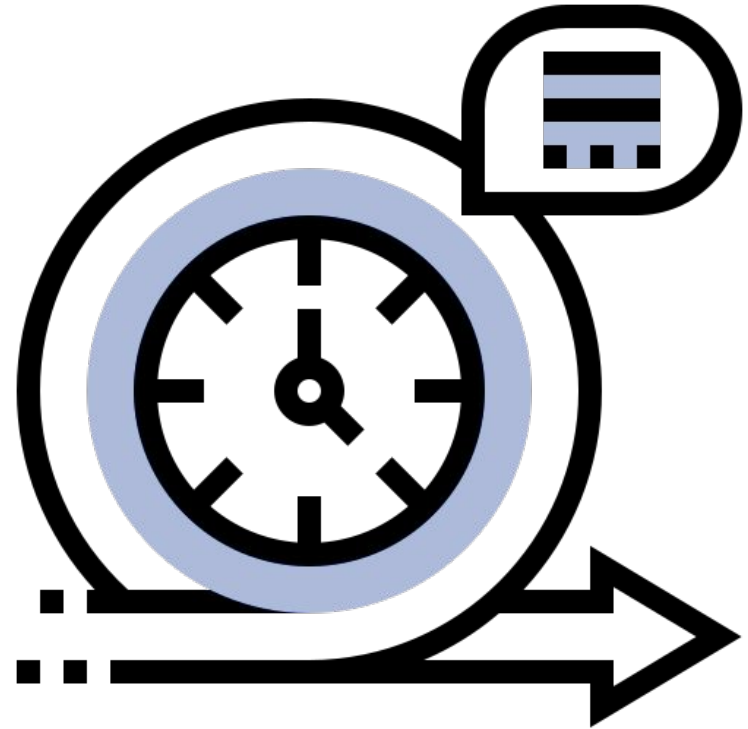
Assignment: Library Project

- Project will use JDBC, Servlets, JSPs, and Maven
- Create website for a library where you can login as...
 - ◆ A librarian who will manage books and approve patron accounts
 - ◆ A patron who can checkout and return books



Assignment: Library Project

- Each team will have a **team lead** and **scrum master**
- Following Agile...
 - ◆ Create user stories, UMLs, etc. to plan out application
 - ◆ Daily scrum meetings
 - ◆ Create product backlog to track progress (use free apps like [Jira](#))



Patron User

- Sign up for an account
 - ◆ Pass info for account in a form
 - ◆ Account will be “frozen” once created and will not be able to checkout any books
 - ◆ Librarian will have to unfreeze account
- **Log into their account to...**
 - ◆ **Checkout books (as long as they're available)**
 - ◆ **Return books**
 - ◆ **View all books previously checkout out as well as current books checkout out**
 - ◆ **List of books at the library**
- Update their name, username, and password



Librarian User

- **Add in new books**
 - ◆ **Must have false set for rented column**
 - ◆ **Must have today's date for added_to_library column**
- **Update only the book's title and description**
- Approve accounts for patrons
 - ◆ Change their accounts from frozen to unfrozen so they can checkout books
- Update their username and password



Patron can checkout and return books. You can sign up and request an account at the library. Until approved by a librarian, cannot checkout books. Patron can update their name, username, and password.

Patron
patron_id: int
first_name: varchar(50)
last_name: varchar(50)
username: varchar(50)
password: varchar(50)
account_frozen: boolean

Librarian
librarian_id: int
username: varchar(50)
password: varchar(50)

Librarian can delete books, add new books, and update the title and description of a book. Librarians can approve accounts for new patrons and freeze accounts. They can also update their own username and password.

Book_Checkout
checkout_id: int
patron_id: int
isbn: char(10)
checkedout: date
due_date: date
returned: date

Book
isbn: char(10)
title: varchar(50)
descr: varchar(100)
rented: boolean
added_to_library: date