Assignment: Library Project
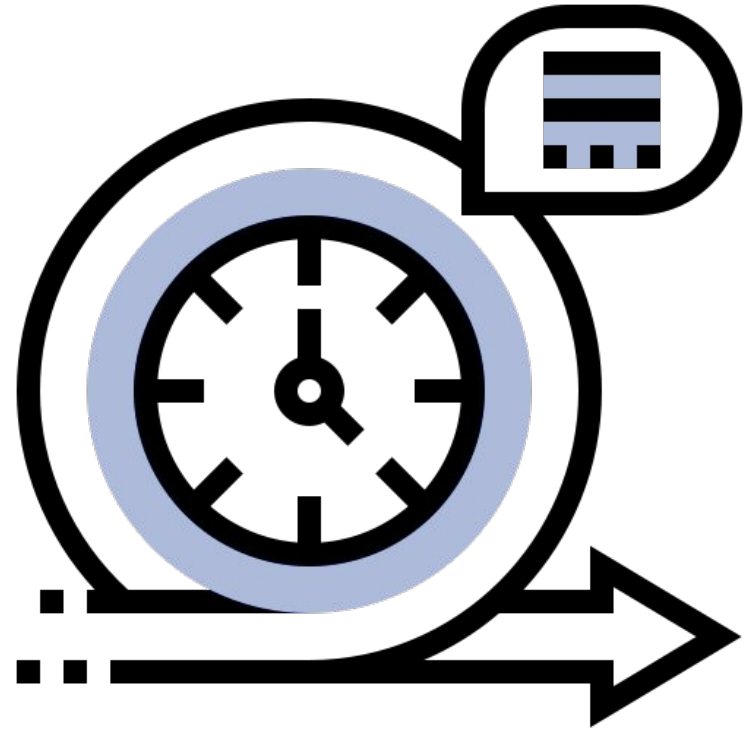
➜ Project will use JDBC, Servlets, JSPs, and Maven

➜ 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