

VIRTUAL LIBRARY

IIHT

Time To Complete: 10 to 12 hr

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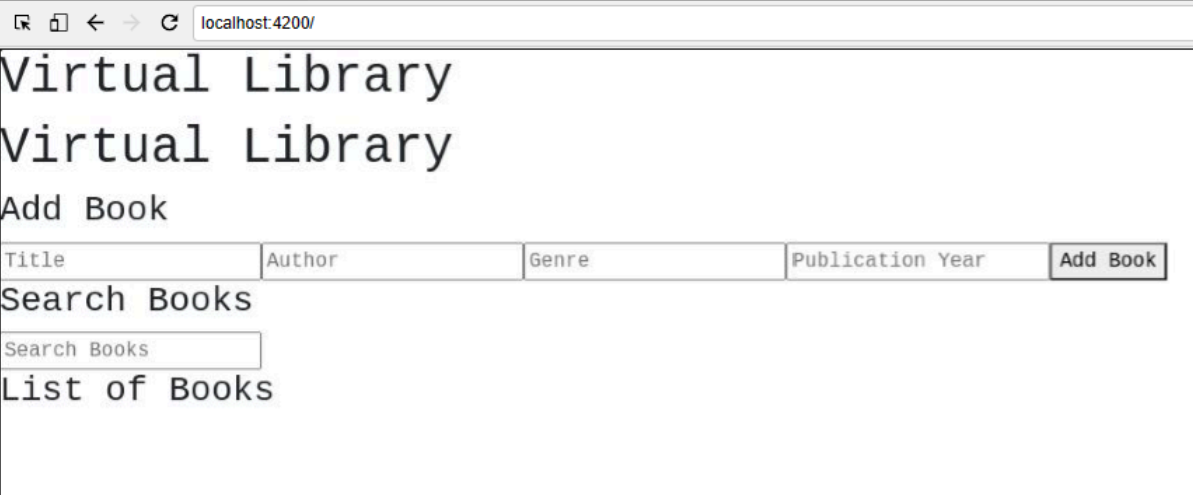
1 PROBLEM STATEMENT

"Library Management" is a Single Page Application (SPA) that empowers users to have a virtual library where they can search out for any book, get details of a book and also filter out books according to their genre.

2 PROPOSED VIRTUAL LIBRARY APPLICATION WIREFRAME

UI needs improvisation and modification as per given use case and to make test cases passed.

2.1 WELCOME PAGE



A wireframe of a web browser window showing the 'Virtual Library' welcome page. The browser's address bar displays 'localhost:4200/'. The page content includes the title 'Virtual Library' repeated twice, followed by the heading 'Add Book'. Below this is a form with four input fields: 'Title', 'Author', 'Genre', and 'Publication Year', each followed by an 'Add Book' button. The next section is 'Search Books', featuring a single input field labeled 'Search Books'. The final section is 'List of Books', which is currently empty.

2.2 SCREENSHOTS



A wireframe of a web browser window showing the 'Virtual Library' page with a book entry. The browser's address bar displays 'localhost:4200/'. The page content includes the title 'Virtual Library' repeated twice, followed by the heading 'Add Book'. Below this is a form with four input fields: 'Title', 'Author', 'Genre', and 'Publication Year', each followed by an 'Add Book' button. The next section is 'Search Books', featuring a single input field labeled 'Search Books'. The final section is 'List of Books', which contains a book entry. The entry starts with '. JDBC', followed by 'Author: ABC', 'Genre: Programming', and 'Publication Year: 2020'. At the bottom of the entry are two buttons: 'Edit' and 'Delete'.

Virtual Library

Virtual Library

Add Book

Title	Author	Genre	Publication Year	Add Book
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Search Books

Search Books

List of Books

. JDBC

Author: ABC

Genre: Programming

Publication Year: 2020

Edit Delete

Edit Book

JDBC	ABC	Programming	2020	Save	Cancel
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3 BUSINESS-REQUIREMENT:

As an application developer, develop the Virtual Library Application (Single Page App) with below guidelines:

User Story #	User Story Name	User Story
US_01	Welcome Page	<p>As a user I should be able to visit the welcome page as default page.</p> <p>Acceptance criteria:</p> <ol style="list-style-type: none"> 1. Users can see the list of all books. 2. Users should see the Edit and Delete button in each book to edit and delete it. 3. Users should be able to see the Add Book button to add a new book. 4. There must be a text field to search any book.

4 CONSTRAINTS

1. You should be able to press the “TAB” key and “SHIFT + TAB” to navigate from top field to bottom field and vice-versa.
2. By default the “Add Book” button should be disabled. Only after validating all fields it should be enabled.
3. By default the “Add Book” button should be disabled.

5 MANDATORY ASSESSMENT GUIDELINES

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal ->New Terminal.
3. This editor Auto Saves the code.
4. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
6. This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.
Note: The application will not run in the local browser
7. You can follow series of command to setup Angular environment once you are in your project-name folder:
 - a. npm install -> Will install all dependencies -> takes 10 to 15 min.

- b. `npm run start` -> To compile and deploy the project in browser. You can press the <Ctrl> key while clicking on localhost:4200 to open the project in the browser -> takes 2 to 3 min.
 - c. `npm run jest` -> to run all test cases and check summary. takes 5 to 6 min.
 - d. `npm run test` -> to run all test cases. **It is mandatory to run this command before submission of workspace** -> takes 5 to 6 min.
8. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on **"Submit Assessment"** after you are done with code.
9. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.