

Project: Inception Phase (One)

01) Identify user stories and write them in the “index card” like format discussed in class.

<p>Title: Add books</p> <p>Description: The administrator and the librarian should be able to add book details into the system.</p>	<p>Title: Delete books</p> <p>Description: The administrator and the librarian should be able to delete book details in the system.</p>
<p>Title: Search books</p> <p>Description: The administrator and the librarian should be able to search book details using the details such as ISBN, Author or the Title.</p>	<p>Title: Generate reports</p> <p>Description: The administrator and the librarian should be able to generate reports to obtain the transactions of the library that indicates details about the borrowed books and returned books.</p>
<p>Title: Issue (Checkout and Check in) and Return books and view the transactions.</p> <p>Description: The librarian should be able to update the system when checking out the books and when they are checked back in and view the transaction history.</p>	<p>Title: Reserve books</p> <p>Description: The librarian can reserve the books according to a customer request.</p>

<p>Title: Update books</p> <p>Description: The administrator should be able to update the book details in the system.</p>	<p>Title: Add user details</p> <p>Description: The administrator should be able to add user details into the system.</p>
<p>Title: View user details</p> <p>Description: The administrator and the librarian should be able to add book details into the system.</p>	<p>Title: Remove a user</p> <p>Description: The administrator should be able to remove user details from the system.</p>
<p>Title: User Login</p> <p>Description: Administrator and the Librarian have separate logins.</p>	<p>Title: Change Password</p> <p>Description: The administrator and the librarian should be able to change the passwords of their accounts.</p>
<p>Title: View Book details</p> <p>Description: The administrator and the librarian should be able to view the book details in the system.</p>	<p>Title: Add Member</p> <p>Description: The librarian or the admin should be able to add new member details to the system.</p>

<p>Title: Delete Member</p> <p>Description: The administrator and the librarian should be able to remove the member details from the system.</p>	<p>Title: View and Update Member</p> <p>Description: The librarian or the admin should be able view and update the member details.</p>
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Provide a project estimate of the time (in days) needed to build the web site.
Clearly document your process of estimation.

User Story	Estimation in days	Reasoning
Add books	6	GUI design part, implementing the database is complicated.
Delete books	4	GUI design part, implementing the database is complicated.
View book details	3	
Search books	11	GUI design part and needs to collaborate with other functions.
Update books	3	Needs to collaborate with other functions.
Reserve books	3	Collaborates with other user stories.
Issue (Checkout and Check in) and Return books	16	Too many features.
Add user details	8	GUI implementation and database implementation.

View user details	4	
Remove a user	4	
User Login	4	Security features.
Change Password	3	Security features.
Generate reports	10	Bugs traveling from previous user stories.
Add Member	4	
Delete Member	4	
View and Update Member	8	Collaborates with the other user stories.

Breaking up Big User Stories

Each user story should take at the most 15 days. Those stories that exceed 15 days are Big stories. According to my estimates, the following stories are Big stories which are broken up by features.

Issue (Checkout and Check in) and Return books.

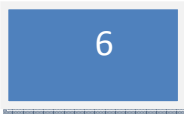
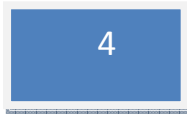
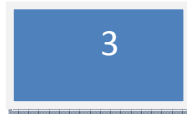
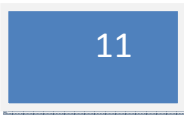
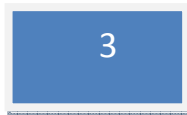
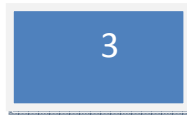
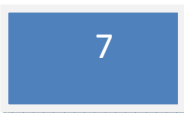
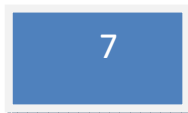
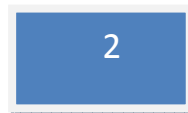
Check in , Check out and view Check in and Checkout.	16 days
Checking Books	7 days
Check out Books	7 days
View Transactions	2 days

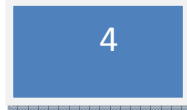
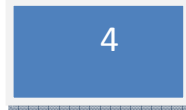
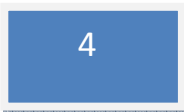
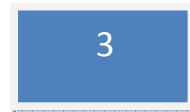
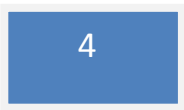
An iteration plan for the releases.

Assume a timeboxed iteration with a duration of no more than **21 workdays**.

I am the only developer in this project. The total estimated days for all the user stories are **95 days**.

I have planned for 6 iterations. I have assumed that the velocity to be **0.8**.

Iteration 1**Add Books****Delete Books****View book details** **$6+4+3=13\text{days}$** **$13\text{ days}/0.8= 17\text{ days}$** **Iteration 2****Search books****Update Books****Reserve books** **$11+3+3=17\text{days}$** **$17\text{ days}/0.8= 21\text{ days}$** **Iteration 3****Check out Books****Check in Books****View Transactions** **$7+7+2=16\text{ days}$** **$16\text{ days}/0.8= 20\text{ days}$**

Iteration 4**Add user details****View User details****Remove User** **$8+4+4=16$ days** **$16 \text{ days}/0.8= 20 \text{ days}$** **Iteration 5****User Login****Generate reports****Change Password** **$4+10+3= 17$ days** **$17 \text{ days}/0.8= 21 \text{ days}$** **Iteration 6****Add Member****Delete Member****View and Update Member** **$4+4+8= 16$ days** **$16 \text{ days}/0.8= 20 \text{ days}$**

Assumptions

- 1) Medium sized scope.
- 2) Developers skills are sufficient to develop the system.
- 3) Infrastructure is in place and working properly.

Resolving assumptions

- 1) Enhancing the developers' skills through training.