

Exercise:6(b)

NAME:VETRISELVI M

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ROLL NO:230701379

Simulate the life cycle stages for UI design using the RAD model
and develop a small interactive interface using OpenProj

AIM:

The aim is to recreate the lifecycle stages of UI design using the RAD model and design a small interactive interface with OpenProj

PROCEDURE:

Tool Link: <https://sourceforge.net/projects/openproj/>

Step 1: Requirements Planning

1. Gather Requirements:

- Identify key features and functionalities needed for your interface.
- Example: A simple "Login" and "Register" interface with debug logs.

2. Define Use Cases:

- Specify use cases for user login and registration.
- Example: User logs in with valid credentials, user registers with a new account.

Output in OpenProj:

- Create a new project.
- Add tasks: "Gather Requirements" and "Define Use Cases."
- Set durations and dependencies for each task.

Step 2: User Design

1. Sketch Initial Designs:

- Draw rough sketches of the "Login" and "Register" screens on paper.

2. Create Digital Wireframes:

- Use a tool like Figma or Sketch to create digital wireframes.

Example Wireframes:

1. Login Screen: Username field, Password field, Login button, Register link.
2. Register Screen: Username field, Email field, Password field, Confirm Password field, Register button.

Output in OpenProj:

- Add tasks: "Sketch Initial Designs" and "Create Digital Wireframes."
- Allocate time and resources to complete these tasks.

Step 3: Rapid Prototyping

1. Develop Prototypes:

- Use a tool like Axure RP to convert wireframes into interactive prototypes.

2. Test Prototypes:

- Share prototypes with stakeholders for feedback.
- Collect feedback and iterate on the design.

Output:

- Interactive prototypes for "Login" and "Register" screens.

Output in OpenProj:

- Add tasks: "Develop Prototypes" and "Test Prototypes."
- Set dependencies and milestones.

Step 4: User Acceptance/Testing

1. Review Prototype:

- Conduct user and stakeholder reviews.

2. Conduct Usability Testing:

- o Perform usability testing and document feedback.

Output:

- Documented feedback and test results.

Output in OpenProj:

- Add tasks: "Review Prototype" and "Usability Testing."
- Track progress and resources.

Step 5: Implementation

1. Develop Functional Interface:

- o Implement final designs and functionalities based on feedback.

2. Integrate Backend (if required):

- o Connect the UI with backend services for tasks like user authentication.

The screenshot displays the OpenProject web application. The top navigation bar includes the OpenProject logo, a 'Buy now' button, and a search bar. The main content area shows a project titled 'Life Cycle Stages For UID' with a sidebar on the left for navigation. The task list is as follows:

ID	SUBJECT	TYPE	STATUS	ASSIGNEE	PRIORITY
37	Requirements Planning	SUMMARY TASK	In progress	-	Normal
38	core features of the library app	TASK	In progress	-	Normal
39	List expected user roles and permissions	TASK	In progress	-	Normal
40	Identify required modules	TASK	New	-	Normal
46	Requirements Finalized	MILESTONE	In progress	-	Normal
41	User Design	SUMMARY TASK	Scheduled	-	Immediate
42	Design UI layout	TASK	In progress	-	Normal
43	wireframes for key screens for Library management	TASK	In progress	-	Normal
44	Get feedback from users through G-form or Survey	TASK	New	-	Normal
45	Revise design based on feedback	TASK	On hold	-	Low

The sidebar on the left includes options like 'Work packages', 'All open', 'Latest activity', 'Recently created', 'Overdue', 'Summary', 'Created by me', 'Assigned to me', and 'Shared with users'. A 'Buy now' button is also visible in the sidebar.

The screenshot shows the OpenProject web interface. The browser address bar displays the URL: `selvi.openproject.com/projects/life-cycle-stages-for-uid/work_packages`. The page title is "Life Cycle Stages For UID". The sidebar on the left contains navigation links: "Work packages", "Latest activity", "Recently created", "Overdue", "Summary", "Created by me", "Assigned to me", and "Shared with users". The main content area is titled "All open" and displays a table of work packages.

ID	SUBJECT	TYPE	STATUS	ASSIGNEE	PRIORITY
43	wireframes for key screens for Library management	TASK	In progress	-	Normal
44	Get feedback from users through G-form or Survey	TASK	New	-	Normal
45	Revise design based on feedback	TASK	On hold	-	Low
47	User Design Approved	MILESTONE	New	-	Normal
48	▼ Rapid Construction	SUMMARY TASK	To be scheduled	-	Immediate
49	Develop frontend screens	TASK	New	-	Normal
50	Build backend logic	TASK	New	-	High
51	Connect to book database	TASK	New	-	Normal
52	System Built and Tested	MILESTONE	New	-	Normal
53	End of Project	MILESTONE	New	-	Normal

At the bottom of the table, it indicates "(1 - 17/17)".

RESULT:

Thus we have simulate the life cycle stages for UI design using the RAD model and developed a small interactive interface using OpenProj.

