

Exercise 9:

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:

- 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

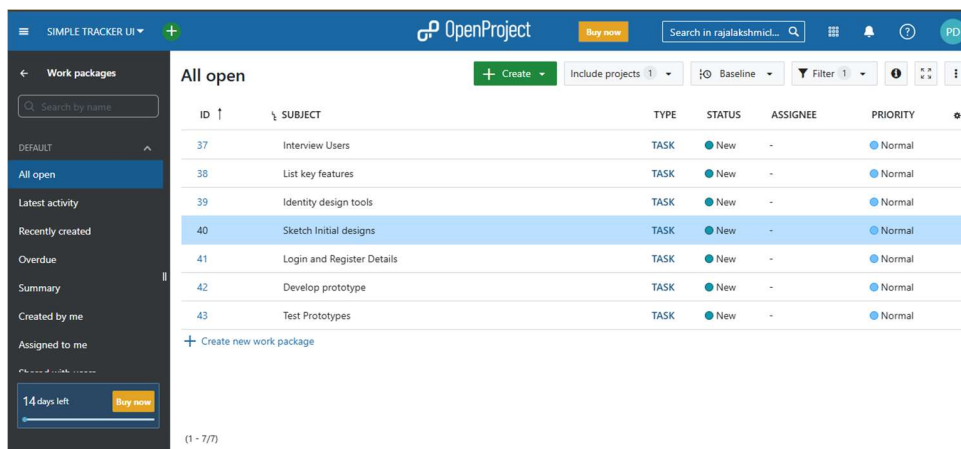
1. Develop Functional Interface:

- Implement final designs and functionalities based on feedback. 2.

Integrate Backend (if required):

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

OUTPUT:



ID	SUBJECT	TYPE	STATUS	ASSIGNEE	PRIORITY
37	Interview Users	TASK	New	-	Normal
38	List key features	TASK	New	-	Normal
39	Identity design tools	TASK	New	-	Normal
40	Sketch Initial designs	TASK	New	-	Normal
41	Login and Register Details	TASK	New	-	Normal
42	Develop prototype	TASK	New	-	Normal
43	Test Prototypes	TASK	New	-	Normal

RESULT:

The output was verified successfully.