

# **RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**



**CS23A34**  
**USER INTERFACE AND DESIGN LAB**

**Laboratory Observation NoteBook**

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**Register No. :** 230701377  
**Semester :** IV  
**Academic Year:** 2024-25

**Ex. No. : 5b**

**Date : 29.03.2025**

**Register No. : 230701377**

**Name : Veronica Regina Paul**

**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**

The image displays two screenshots of the OpenProject web interface, illustrating the lifecycle stages of UI design using the RAD model.

**Top Screenshot: Overview Tab**

- Project:** UI Design RAD Model Simulation
- View:** Created by me
- Task List:**

ID	SUBJECT	TYPE	STATUS	ASSIGNEE	UPDATED ON
38	Define Use Cases	TASK	In progress		04/26/2025 9:21 PM
46	Backend Integration	TASK	On hold		04/26/2025 9:20 PM
45	Develop Functional Interface	TASK	On hold		04/26/2025 9:20 PM
44	Usability Testing	TASK	In progress		04/26/2025 9:20 PM
43	Review Prototype	TASK	In progress		04/26/2025 9:20 PM
42	Test Prototypes	TASK	In progress		04/26/2025 9:20 PM
41	Develop Prototypes	TASK	In progress		04/26/2025 9:20 PM
40	Create Digital Wireframes	TASK	In progress		04/26/2025 9:19 PM
37	Gather Requirements	TASK	In progress		04/26/2025 9:19 PM
39	Sketch Initial Designs	TASK	In progress		04/26/2025 9:19 PM
- Task Details (Define Use Cases):**
  - Status:** In progress
  - Description:** Define specific user actions and scenarios like login with valid credentials and registration with a new account.
  - Assignee:** -
  - Accountable:** -
  - Estimates and Progress:**
    - Work: 16.22h
    - Remaining work: 6h

**Bottom Screenshot: Activity Tab**

- Project:** UI Design RAD Model Simulation
- View:** Created by me
- Task List:** (Same as top screenshot)
- Task Details (Define Use Cases):**
  - Activity Log:**
    - VERONICA REGINA P... created this on 04/26/2025 09:00 PM (#1)
    - VERONICA REGINA P... 04/26/2025 09:21 PM (#2)
    - Status changed from New to In progress
    - % Complete set to 63%
    - Work set to 16.22h
    - Remaining work set to 6h

## RESULT:

Hence the lifecycle stages of UI design using the RAD model and design of a small interactive interface with OpenProj has been successfully executed.

