

# **RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM - 602 105**



**RAJALAKSHMI  
ENGINEERING COLLEGE**

**CS23A34  
USER INTERFACE AND DESIGN LAB**

**Laboratory Observation NoteBook**

**Name : B VINITH**

**Year/Branch/Section : II/CSE/F**

**Register No. : 230701383**

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Register No. : 230701383

Name : B VINITH

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**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**

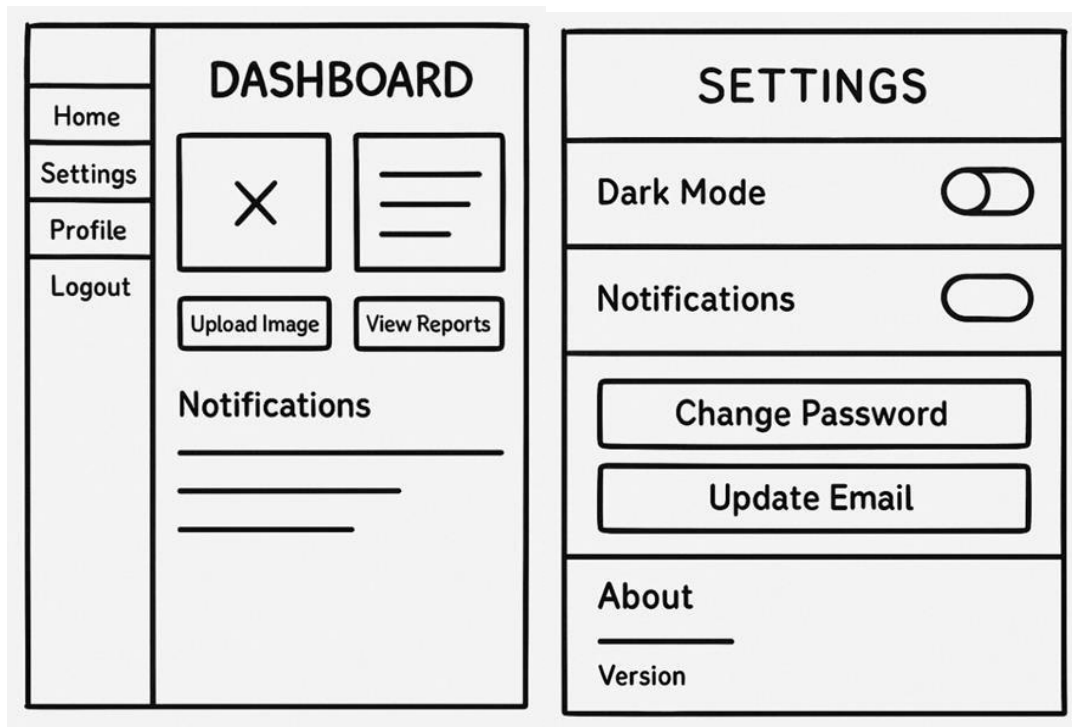
1. Develop Functional Interface:

- 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:



## 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.