

# **RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**



**RAJALAKSHMI  
ENGINEERING COLLEGE**

**CS23A34  
USER INTERFACE AND DESIGN LAB**

**Laboratory Observation NoteBook**

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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:**

#### **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.

#### **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.

## **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.

## **Step 4: User Acceptance/Testing**

1. **Review Prototype:**
  - Conduct user and stakeholder reviews.
2. **Conduct Usability Testing:**
  - Perform usability testing and document feedback.

## **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 mobile application screens for a service named 'Secure Lock'. The left screen is the login page, featuring a green shield icon and the text 'Secure Lock' at the top. It includes input fields for 'Username' and 'Password', a green 'Login' button, and links for 'Forgot Password?' and 'Register'. The right screen is the registration page, titled 'Welcome to Secure Lock!', and includes input fields for 'Username', 'Email', 'Password', and 'Confirm Password', along with a green 'Register' button. Both screens have a light gray background.

## Result:

Hence the recreation of the lifecycle stages of UI design using the RAD model and successfully designed a small interactive interface with OpenProj.