

**RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**



**RAJALAKSHMI**  
**ENGINEERING COLLEGE**

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

**Laboratory Observation NoteBook**

**Name : SRIWANTH SATHISH**  
**Year/Branch/Section : II/CSE/D**  
**Register No. : 230701344**  
**Semester : IV**  
**Academic Year: 2024-25**

**Ex. No. : 5b**

**Register No. : 230701344**

**Name : Sriwanth Sathish**

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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:**

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

##### **2. Define Use Cases:**

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

## **Step 2: User Design**

### **1. Sketch Initial Designs:**

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

### **2. Create Digital Wireframes:**

- o 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:**

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

### **2. Test Prototypes:**

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

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

### **1. Review Prototype:**

- o Conduct user and stakeholder reviews.

### **2. Conduct Usability Testing:**

- o Perform usability testing and document feedback.

## Step 5: Implementation

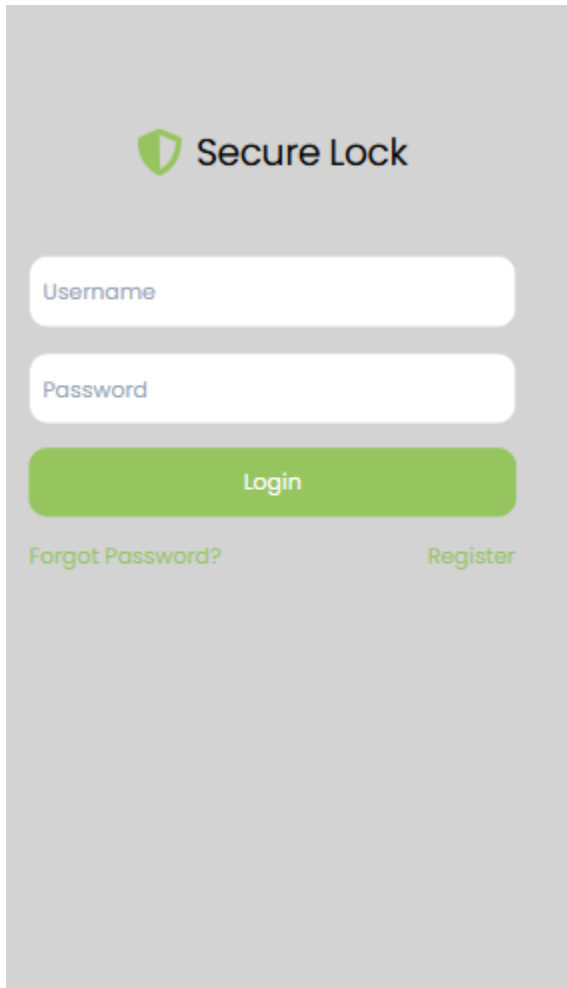
### 1. Develop Functional Interface:

- o Implement final designs and functionalities based on feedback.

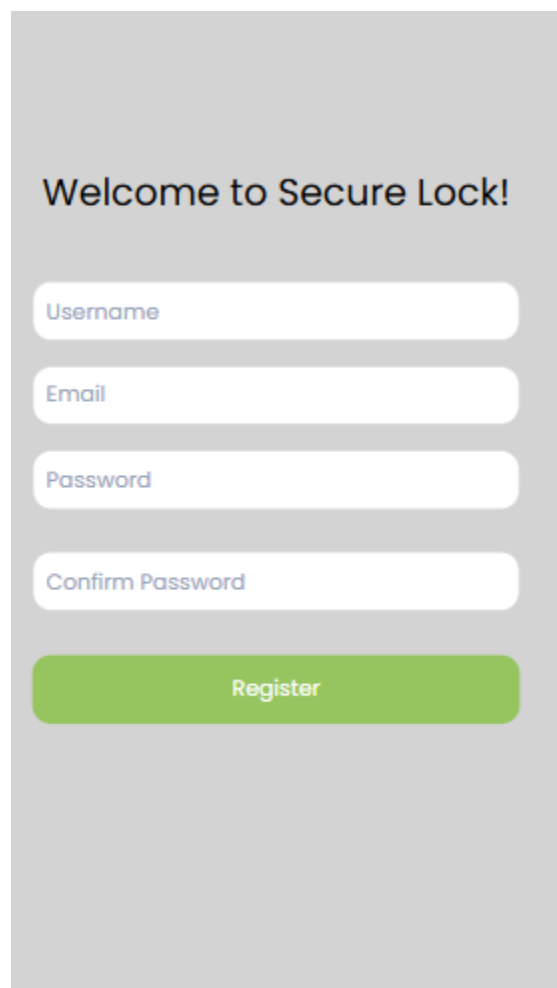
### 2. Integrate Backend (if required):

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

## Output:



The login screen for 'Secure Lock' features a green shield icon with a white checkmark. Below the title, there are two white input fields with green placeholder text: 'Username' and 'Password'. A large green button with the text 'Login' is positioned below the password field. At the bottom, there are two green links: 'Forgot Password?' on the left and 'Register' on the right.



The registration screen for 'Secure Lock' displays the title 'Welcome to Secure Lock!'. It includes three white input fields with green placeholder text: 'Username', 'Email', and 'Password'. Below the password field is a fourth white input field with the placeholder text 'Confirm Password'. A large green button with the text 'Register' is located at the bottom of the form.

**Result:**

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