

RAJALAKSHMI ENGINEERING COLLEGE

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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:

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 side-by-side form panels on a light cream background. The left panel is titled 'Login' in bold black text. It contains two white input fields with thin brown borders, labeled 'Username' and 'Password'. Below the 'Password' field is a link 'Forgot Password?' in a small, brown font. A solid brown button with the text 'Login' in white is positioned below the link. At the bottom of the panel is a link 'Don't have an account? Register' in a small, brown font. The right panel is titled 'Register' in bold black text. It contains three white input fields with thin brown borders, labeled 'Username', 'Email', and 'Password'. Below the 'Password' field is another 'Password' field and a 'Confirm Password' field. Below these fields is a checkbox with the text 'I agree to the Terms of Service' in a small, brown font. A solid green button with the text 'Register' in white is at the bottom of the panel.

Login

[Forgot Password?](#)

Login

[Don't have an account? Register](#)

Register

☐ I agree to the [Terms of Service](#)

Register

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.

