**Exercise 9:**

**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.

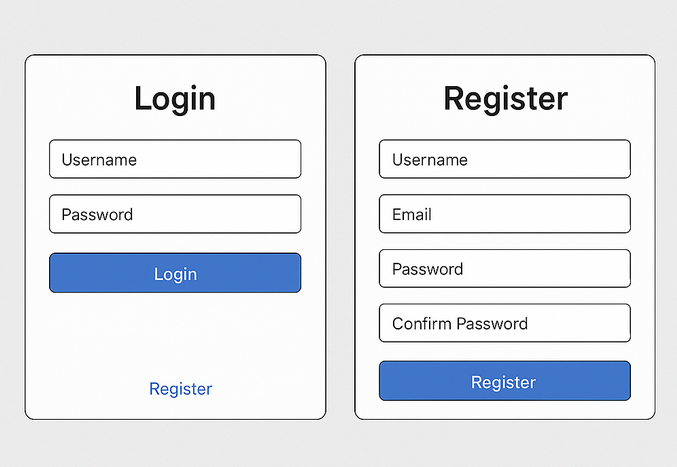
**Step 5: Implementation**

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:**

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