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.

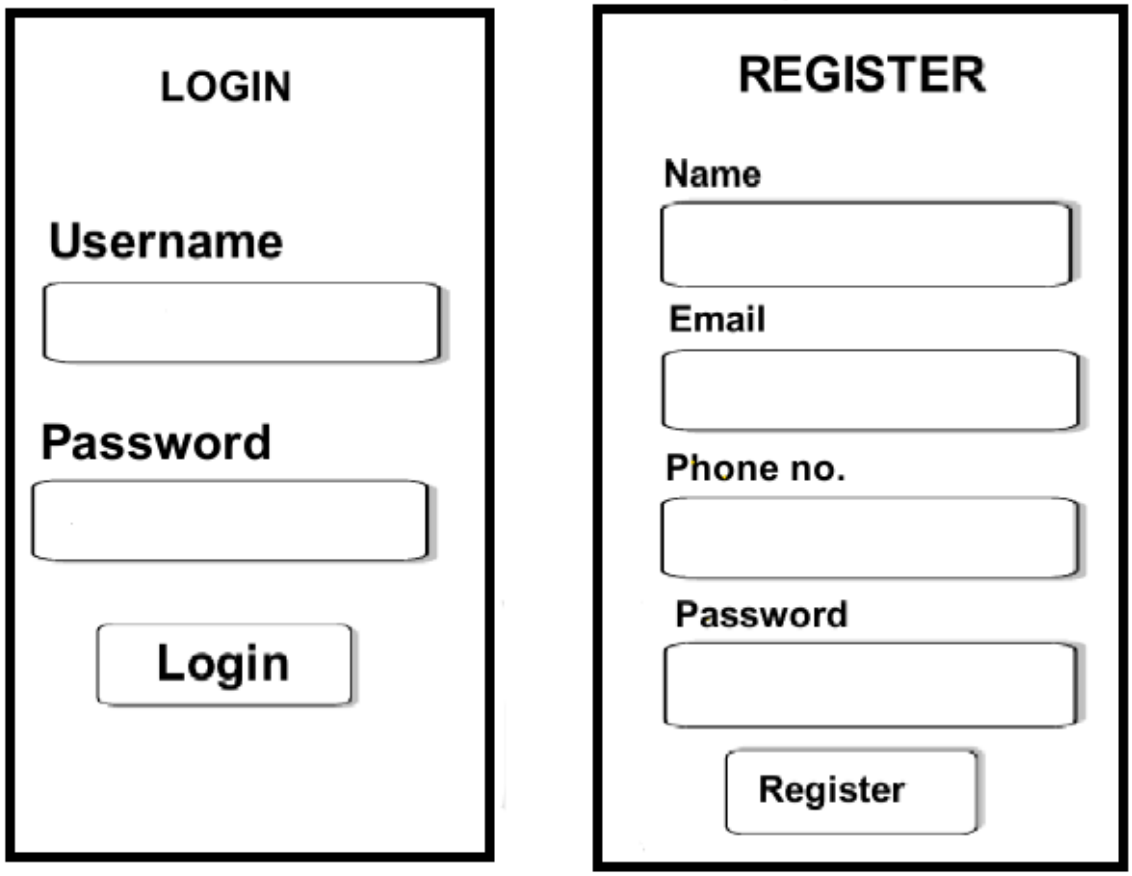
Output in OpenProj:

- 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:



RESULT:

Hence we have recreated the lifecycle stages of UI design using the RAD model and designed a small interactive interface with OpenProj