RAJALAKSHMI ENGINEERING COLLEGE

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CS23A34
USER INTERFACE AND DESIGN LAB

Laboratory Observation NoteBook

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Ex. No. : 5b **Date : 29.03.2025**

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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

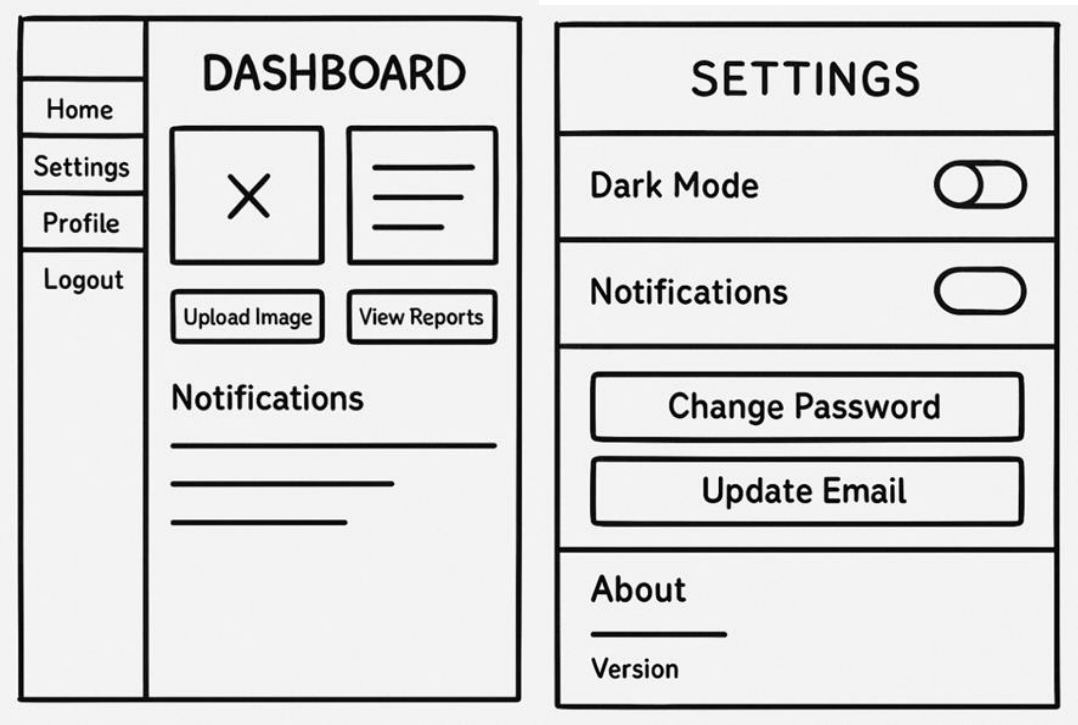
1. Develop Functional Interface:

    ○ 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 the lifecycle stages of UI design using the RAD model and design of a small interactive interface with OpenProj has been successfully executed.