RAJALAKSHMI ENGINEERING COLLEGE

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RAJALAKSHMI
ENGINEERING COLLEGE

CS23A34 **USER INTERFACE AND DESIGN LAB**
Laboratory Observation NoteBook

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Year/Branch/Section : II/CSE/D

Register No. : 230701373

Semester : IV

Academic Year: 2024-25

Ex. No. : 5b

Register No. : 230701373 **Name : SP VARUN**

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:

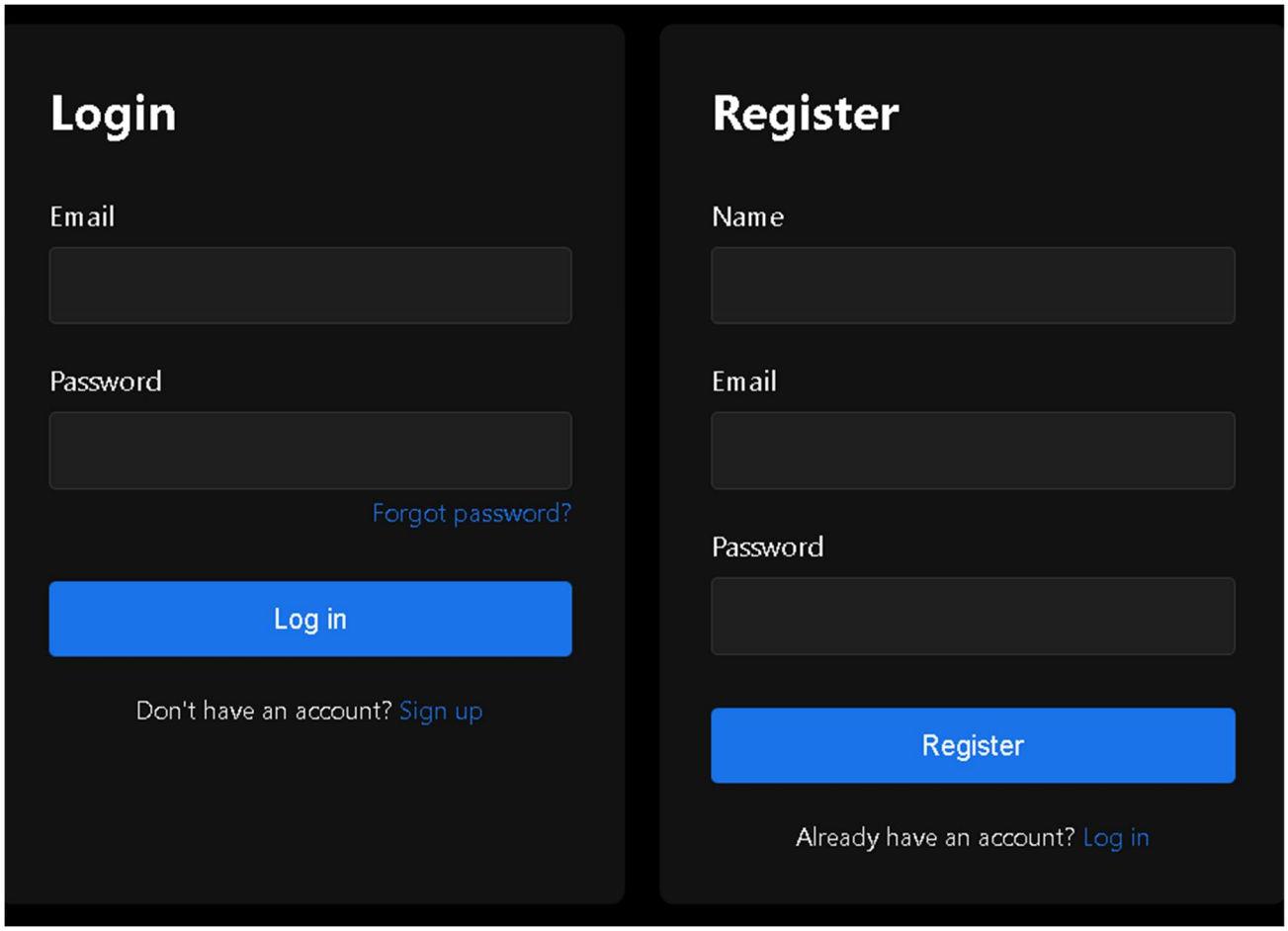
○ Implement final designs and functionalities based on feedback.

2. Integrate Backend (if required):

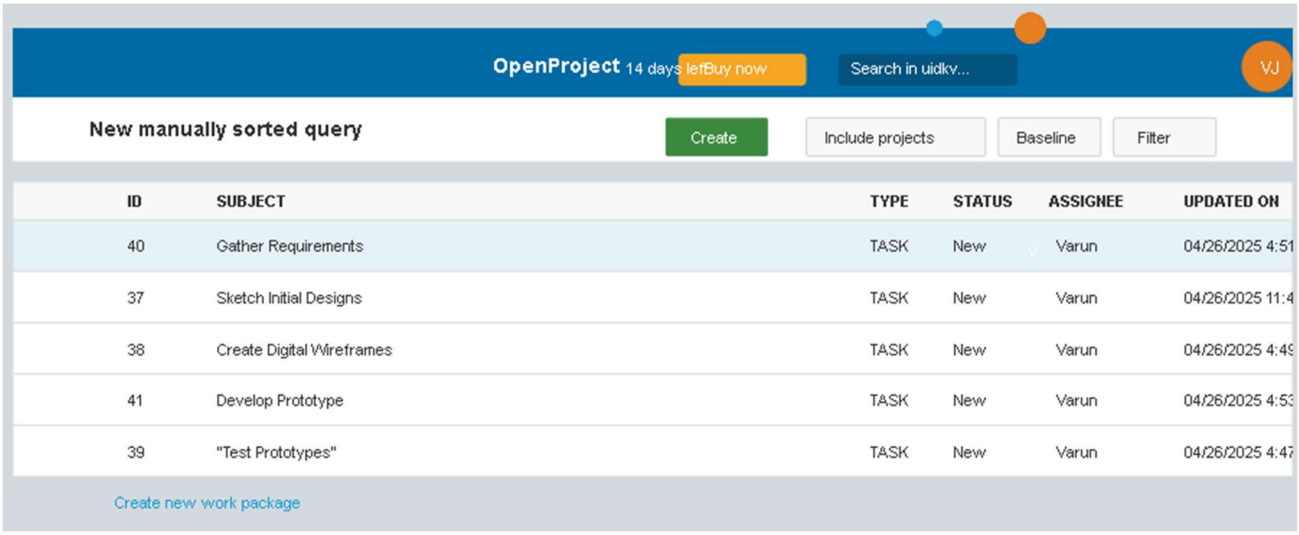
○ Connect the UI with backend services for tasks like user authentication.

OUTPUT:

Designs for Login and Register



OpenProj Dashboard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TASK
New
Varun
04/26/2025 4:51
37
Sketch Initial Designs
TASK
New
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Create Digital Wireframes
TASK
New
Varun
04/26/2025 4:49
41
Develop Prototype
TASK
New
Varun
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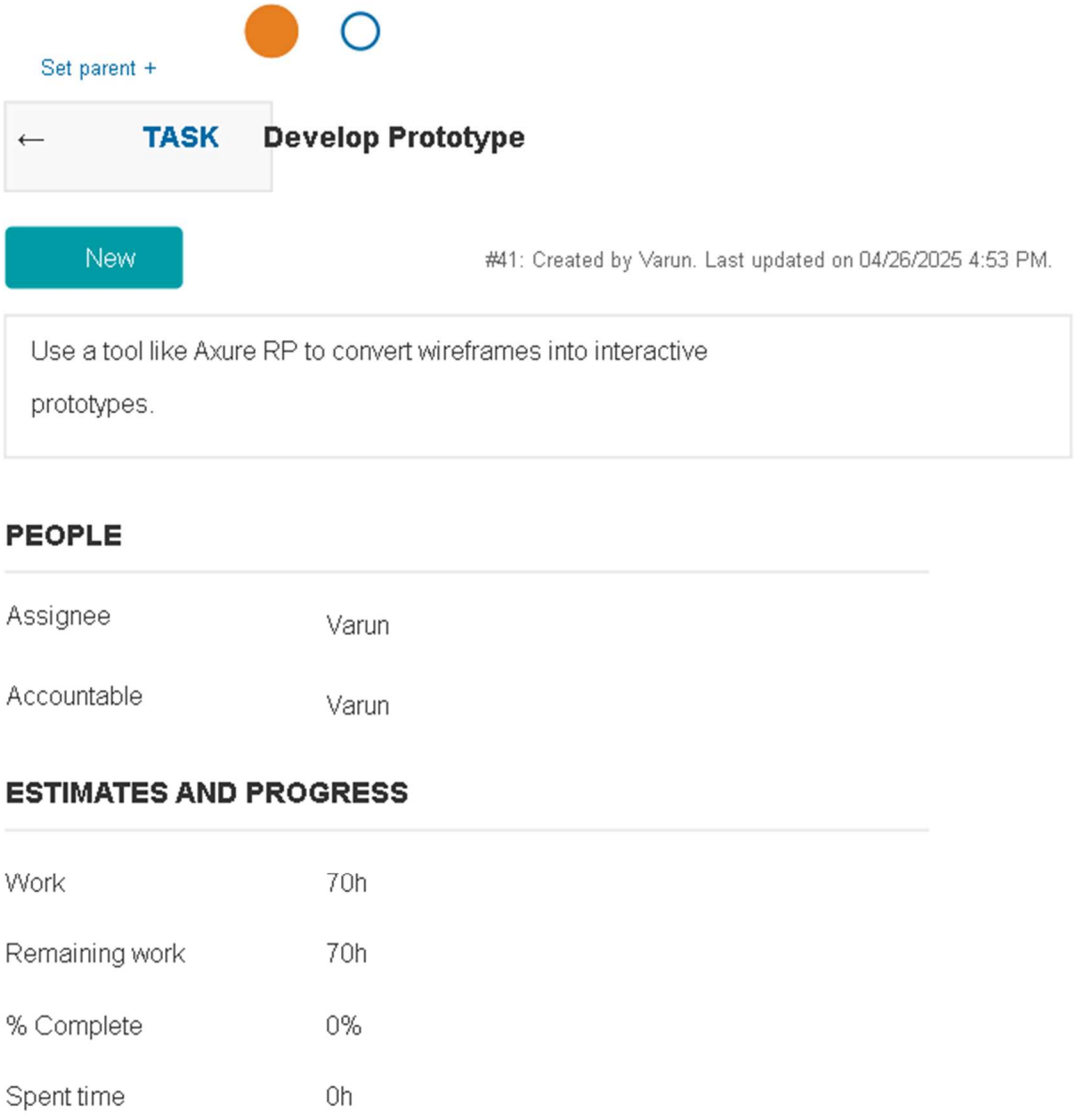
39
"Test Prototypes"
TASK
New
Varun
04/26/2025 4:47
Create new work package



RESULT:

Demonstration of the lifecycle stages of UI design via the RAD model and development of a small interactive interface employing OpenProj has been successfully completed.