Exercise 5b

<u>Simulate the life cycle stages for UI design using the RAD model and develop a small interactive interface using OpenProj</u>

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.