RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM – 602 105

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

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Simulate the lifecycle stages for UI design using the RAD model and develop a small interactive interface using Axure RP.

Aim:

The aim is to demonstrate the lifecycle stages of UI design via the RAD model and develop a small interactive interface employing Axure RP.

Procedure:

RAD Model (Rapid Application Development): The RAD model emphasizes quick development and iteration. It consists of the following phases:

1. Requirements Planning:
   o Gather initial requirements and identify key features of the UI.
   o Engage stakeholders to understand their needs and expectations.
2. User Design:
   o Create initial prototypes and wireframes.
   o Conduct user feedback sessions to refine the designs.
   o Use tools like Axure RP to develop interactive prototypes.
3. Construction:
   o Develop the actual UI based on the refined designs.
   o Perform iterative testing and feedback cycles.

4. Cutover:
   - **o** Deploy the final UI.
   - **o** Conduct user training and support.

Axure RP Interactive Interface Development

Phase 1: Requirements Planning

1. Identify Key Features:
   - o Navigation (Home, Product Categories, Product Details, Cart, Checkout, Order Confirmation, Order History)
   - o User actions (Browsing, Searching, Adding to Cart, Checkout, Tracking Orders)
2. Create a Requirements Document:
   - o List all features and functionalities.
   - o Document user stories and use cases.

Phase 2: User Design

1. Install and Launch Axure RP:
   a. Download and install Axure RP from Axure's official website.
   b. Launch the application.
2. Create a New Project:
   a. Go to File -> New to create a new project.
   b. Name the project (e.g., "Shopping App Interface").
3. Create Wireframes:
   a. Use the widget library to drag and drop elements onto the canvas.
   b. Design wireframes for each screen:
      i.   Home Page
      ii. Product Categories
      iii. Product Listings
      iv. Product Details

v. Cart

vi. Checkout

vii. Order Confirmation

4. Add Interactions:
   a. Select an element (e.g., button) and go to the Properties panel.
   b. Click on Interactions and choose an interaction (e.g., OnClick).
   c. Define the action (e.g., navigate to another screen).
5. Create Masters:
   a. Create reusable components (e.g., headers, footers) using Masters.
   b. Drag and drop masters onto the wireframes.
6. Add Annotations:
   a. Add notes to describe each element's purpose and functionality.
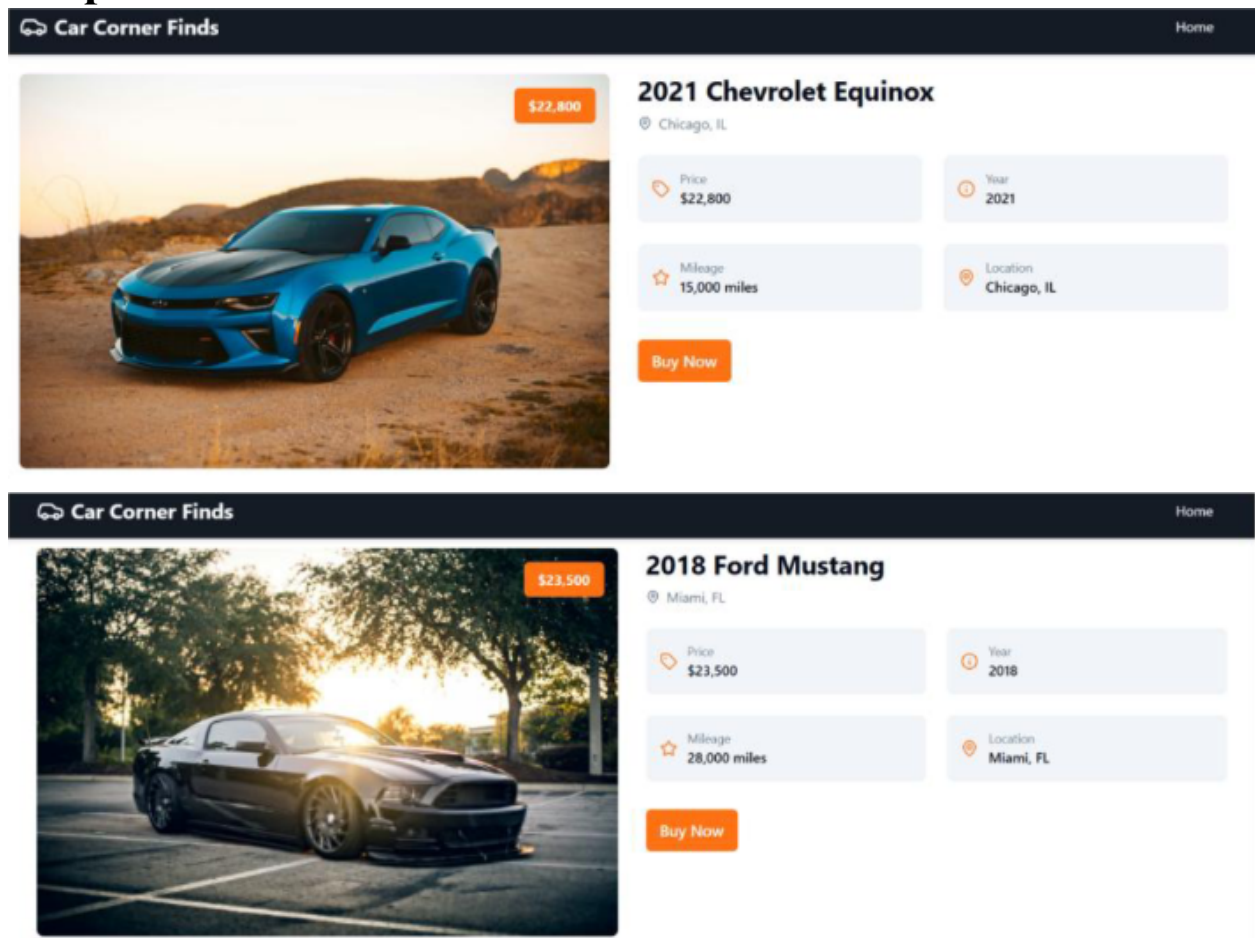   b. Use the Notes panel to add detailed annotations.

Phase 3: Construction

1. Develop Interactive Prototypes:
   o Convert wireframes into interactive prototypes by adding interactions and transitions.
   o Use dynamic panels to create interactive elements (e.g., carousels, pop-ups).
2. Test and Iterate:
   o Preview the prototype using the Preview button.
   o Gather feedback from users and stakeholders.
   o Make necessary adjustments based on feedback.

Phase 4: Cutover

1. Finalize and Export:
   o Finalize the design and interactions.
   o Export the prototype as an HTML file or share it via Axure Cloud.
2. User Training and Support:
   o Conduct training sessions to familiarize users with the new interface.
   o Provide documentation and support for any issues.

Output:

Confirm Purchase

×

You are about to purchase the following vehicle:

2018 Ford Mustang
28,000 miles • Miami, FL

$23,500

By clicking "Purchase Now", you agree to all terms and conditions of this sale. This is a demonstration only - no actual purchase will occur.

Cancel   Purchase Now

✓

Purchase Successful!

Thank you for your purchase! Your new vehicle is ready for pickup. Our team will contact you shortly with more details.

Browse More Cars

View Receipt

Find Your Perfect Pre-Owned Vehicle

Browse our selection of quality used cars at competitive prices

🔍 Search by make, model, or location...

Available Vehicles

2020 Toyota Camry
25,000 miles   Los Angeles, CA

2019 Honda Accord
32,000 miles   Seattle, WA

2018 Ford Mustang
28,000 miles   Miami, FL

2021 Chevrolet Equinox
15,000 miles   Chicago, IL

Result:

Thus the demonstration the lifecycle stages of UI design via the RAD model and successfully developed a small interactive interface employing Axure RP.