Wireframe Documentation for Superstore Machine Learning Project

Overview

This document provides a detailed explanation of the wireframes designed for the Superstore Machine Learning Project web application. The wireframes represent the layout and structure of the user interface to ensure a clean, user-friendly design that supports the project's functionality.

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1. Homepage

Purpose

The homepage serves as the landing page for the web application, providing an introduction to the project and navigation links for users.

Design Elements

- **Header:**
  - Project title (e.g., "Superstore ML Predictor")
  - Navigation menu with links to:
    - Home
    - Input Form
    - About
    - Results
- **Main Section:**
  - Brief project description (e.g., "Predict superstore sales performance based on user inputs.")
  - Call-to-action button linking to the Input Form (e.g., "Get Started")
- **Footer:**
  - Contact information or project credits

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2. Input Form Page

Purpose

The input form page collects user data required for making predictions. The data entered here is sent to the prediction pipeline for processing.

Design Elements

- **Header:**
  - Same as the homepage with navigation links.
- **Main Section:**
  - Input fields for:
    - Product Category (Dropdown)
    - Sub-Category (Dropdown)
    - Sales (Numeric Input)
    - Profit (Numeric Input)
    - Quantity (Numeric Input)
  - Buttons:
    - **Submit:** Sends data to the prediction pipeline.
    - **Clear:** Resets all input fields.
- **Footer:**
  - Link back to the homepage or About page.

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3. Results Page

Purpose

The results page displays the predictions based on the user's inputs, helping them analyze the outcomes.

Design Elements

- **Header:**
  - Same as the homepage with navigation links.
- **Main Section:**
  - Table displaying:
    - User Inputs (e.g., Product Category, Sales, etc.)

        - Predictions (e.g., "High Sales" or "Low Sales")
        - Confidence Score (e.g., 85%)
    - Button to return to the Input Form for a new prediction.
- **Footer:**
    - Contact information or project credits.

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4. Navigation

Consistency Across Pages

- The header with navigation links is consistent across all pages to ensure ease of use.
- Navigation links include:
    - Home
    - Input Form
    - About
    - Results

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5. Wireframe Screens

Screen 1: Homepage

- **Layout:**
    - Header at the top with navigation links.
    - Centralized section for project title and description.
    - Footer with contact details.

Screen 2: Input Form

- **Layout:**
    - Header with navigation links.
    - Input fields stacked vertically with appropriate labels.
    - Submit and Clear buttons below the input fields.
    - Footer for additional links.

Screen 3: Results Page

- **Layout:**
    - Header with navigation links.

- Central table displaying predictions with columns for Input Data, Predictions, and Confidence Score.
- Button to return to the Input Form.
- Footer with contact information.

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6. Future Enhancements

- Add tooltips to form fields to guide users on what data to input.
- Include charts or visualizations on the Results Page to make predictions more insightful.
- Make the application mobile-friendly by incorporating responsive design principles.

Conclusion

The wireframes provide a clear and structured layout for the Superstore Machine Learning Project. By following this documentation, developers can create a user-friendly interface that aligns with the project's objectives and functionality.