

Retro Rides: Online Marketplace for Old Bikes

1. Project Overview

- **Objective:** Develop an online platform for buying and selling old bikes.
- **Roles:** Super Admin (admin), User.
- **Features:** User registration, bike listing, filtering, favourites, user profile management, image uploads, and email notifications.

2. Functionality Flow

- **Super Admin Role:**
 - Super admin can add, edit, and delete bike details.
 - Bikes details add form field
 1. Brand (Required)
 2. Models (Required)
 3. Years (Required)
 4. kilometres driven (Required)
 5. Price (Required)
 6. Description
 7. Image (Required) (Min 1 and Max 5 images can upload. Image type should be JPG, PNG, JPEG. Image size should be max 3 MB.)
 8. Saller information (First name, Last name, Email, Phone number. All fields are required.)
- **User Role:**
 - Registration:**
 - Users can register themselves.
 - User registration form field
 1. First name (Required)
 2. Middle Name
 3. Last Name (Required)
 4. Email (Required)
 5. Phone Number (Required)
 6. Date of birth
 7. Address line one (Required)
 8. Address line two
 9. Country (Dropdown)(Required)
 10. State (Dropdown)(Required)
 11. City (Dropdown)(Required)
 12. Zip Code (Dropdown)(Required)
 14. Profile photo (only one photo can upload. Image type should be JPG, PNG, JPEG. Image size should be max 3 MB.)
 - Notify the user while registering with an email and password. (The password should auto-generate with string and number max 6 length of password.)
 - The country, state, and city should be static with the 5 entries.
 - Show the registration success and error message via toast message notification.
 - Login:**
 - User can log in via email and password which is sent in email.
 - Show the login success and error message via toast message notification.
 - Once the user successfully logged in it'll redirect to the home page.

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Home Page:

- User can see the all-bike list which is created by the admin.
- Use custom pagination on the list page. Per page only shows 5 lists.
- On the list page show one bike image, Brand name, Models, Years, Price.
- Once you click on a particular bike title. Then it'll redirect to the bike details page. And user can see all the details of the bike which are entered by the super admin.
- Also, users can mark as favourites. Once the user adds a mark as a favourite it's notified via toast message.
- User can filter the bike list via
 1. Location (Country, State, City)
 2. Brands
 3. Models
 4. KM Driven
 5. Year
- After applying the filters list should be filtered out according to filters. Also, you can take reference of filters from OLX site.
- Once the user clicks on the User profile menu. It'll redirect to the user profile details page. Where the user can edit his profile details.
- Once the user clicks on the Favourites List menu. The user will be redirected to the Favourites page where the user can see his Favourites bike list which is marked as Favourites. Also, the user can mark and unmark the bike.

3. Implementation Guidelines

- **Error Handling:** Display toast messages for success and error notifications.
- **Loading Indicators:** Show loading bars during API calls or operations.
- **Security:** Implement JWT for authentication, and sanitize inputs to prevent injection attacks.
- **Coding Standards:** Follow consistent coding style and folder structure.
- **Repository Structure:** Separate folders for frontend and backend with clear separation of concerns.
- **Image Handling:** Each image is stored in a specific folder.

4. Instructions:

1. **Development Environment:**
 - Use .NET framework for backend development.
 - Implement API for communication.
 - Choose a suitable database system (e.g., SQL Server) for data storage.
2. **Authentication and Authorization:**
 - Implement secure authentication and authorization.
 - Implements an JWT token-based APIs
3. **User Interface:**
 - Develop a user-friendly interface for registration, login, and game play.
 - Utilize sidebar navigation for easy access to features
4. **Error Handling:**
 - Implement error handling mechanisms for invalid inputs, database failures, etc.
 - Provide meaningful error messages to users.
5. **Markings:**
 - Marks will be given based on the implementation of logic and coding standards

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6. Database Credential:

- Server Name: 192.168.1.13\MSSQLSERVER2022
- Login: sa
- Password: sit@123

Note: The database name and project name should be like this: EmployeeName_EmployeeID.
If the project name and database name do not match with above then your task will not be considered.

Best Of Luck