Ferrari-Themed SPA Documentation

Project Overview

The Ferrari-themed SPA is a dynamic web application built using Angular and styled with Bootstrap. The application showcases Ferrari's legacy, car models, and allows users to submit test drive inquiries.
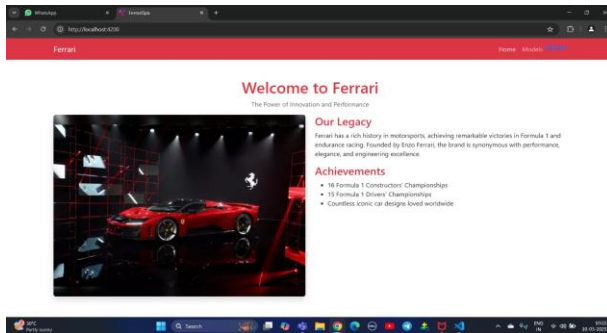
Technologies Used

- Angular (for component-based architecture)
- Bootstrap (for styling and responsive design)
- Nginx (for serving Ferrari images)
- TypeScript (for strong typing)
- API Integration (for handling test drive data via api.json)

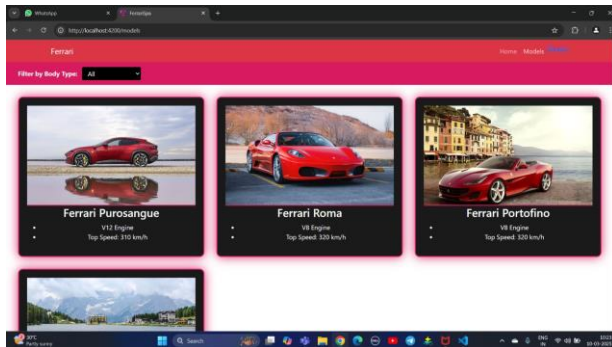## Folder Structure

```
/src
├── /app
│   ├── /components
│   │   ├── home.component.ts
│   │   ├── models.component.ts
│   │   ├── enquiry.component.ts
│   │   ├── car-card.component.ts
│   │   └── navbar.component.ts
│   ├── /services
│   │   ├── car-data.service.ts
│   │   └── enquiry.service.ts
│   ├── /pipes
│   │   └── body-type.pipe.ts
│   ├── app-routing.module.ts
│   ├── app.component.ts
│   ├── app.module.ts
│   └── api.json
├── /assets
│   └── /images
├── index.html
└── styles.css
```

Component Breakdown

- Home Component: Showcases Ferrari's history and achievements.

- Models Component: Displays Ferrari car models with car cards and filtering functionality.

- Enquiry Component: Provides a form for booking test drives with proper validation and data submission to api.json.

- Car Card Component: Displays individual car details like name, specs, and image.
- Navbar Component: Provides easy navigation between Home, Models, and Enquiry pages.

Routing Configuration

```
const routes: Routes = [
 { path: '', component: HomeComponent },
 { path: 'models', component: ModelsComponent },
 { path: 'enquiry', component: EnquiryComponent },
 { path: '**', redirectTo: '', pathMatch: 'full' }
];
```

Key Features

✅Fully responsive design using Bootstrap
✅Detailed car model cards with specifications
✅Custom pipe for filtering models by body type
✅Enquiry form with data validation
✅API integration for inquiry submission
✅Angular services for data handling