Software Requirements Specification  
**Car Boot Sale**

**Information Systems Modelling**

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**1. Introduction**

**1.1 Purpose**

The purpose of creating the Car Boot Sale Web System is to provide a centralized and efficient online platform for organizing and managing car boot sales.

**1.2 Scope**

The Car Boot Sale Web System aims to facilitate the planning, coordination, and execution of car boot sales, providing a platform for both sellers and buyers to participate in these events efficiently.

**1.3 Definitions, Acronyms, and Abbreviations**

 **User:** An individual registered on the Car Boot Sale Web System, including sellers, buyers, and administrators.

 **Seller:** A user who registers on the platform to organize and conduct car boot sales, managing their inventory and sales transactions.

 **Administrator:** A user with elevated privileges responsible for overseeing and managing the overall operation of the Car Boot Sale Web System.

 **Buyer:** A user who registers on the platform to browse items from car boot sales events.

**2. Overall Description**

**2.1 Product Perspective**

The Car Boot Sale Web System will serve as an independent platform, connecting sellers and buyers for car boot sales. It will integrate user-friendly interfaces for various stakeholders, including sellers, buyers, and administrators.

**2.2 Product Functions**

**2.2.1 Seller Module**

* **Registration and Profile Management**: Sellers can register on the platform, creating and managing their profiles.
* **Event Creation**: Sellers can create and manage car boot sale events, specifying location, date, and time.
* **Inventory Management**: Sellers can add, edit, and remove items from their inventory for each event.
* **Transaction Tracking**: Sellers can view and manage transactions related to their sales.

**2.2.2 Buyer Module**

* **User Registration and Profile Management**: Buyers can register, create, and manage their profiles.
* **Event Search and Filtering**: Buyers can search for car boot sales based on location, date, and other filters.
* **Product Browsing**: Buyers can browse seller inventories.

**2.2.3 Admin Module**

* **User Management**: Administrators can manage user accounts, verify sellers, and handle reported issues.
* **Event Approval**: Administrators can approve or reject event requests from sellers.
* **Content Management**: Administrators can manage static content, such as FAQs and guidelines.
* **Reporting and Analytics**: Generate reports on user activity, and system performance.

**2.3 User Classes and Characteristics**

* **Sellers**: Individuals wishing to sell items at car boot sales.
* **Buyers**: Individuals interested in purchasing items from car boot sales.
* **Administrators**: System administrators responsible for overseeing and managing the platform.

**2.4 Operating Environment**

The Car Boot Sale Web System will operate on standard web browsers (Chrome, Firefox, Safari) and be accessible on both desktop and mobile devices.

**2.5 Design and Implementation Constraints**

* The system will be developed using HTML, CSS, JavaScript, and a backend framework (e.g., SpringBoot)
* Security measures, including user authentication and authorization, will be implemented.

**3. Specific Requirements**

**3.1 Registration and Authentication**

**3.1.1 User Registration**

* Users must register with valid email addresses and create secure passwords.

**3.1.2 Authentication**

* Users must authenticate their identity to access the system.

**3.2 Event Management**

**3.2.1 Event Creation**

* Sellers can create events, providing details such as location, date, and time.

**3.2.2 Event Approval**

* Administrators can approve or reject event requests.

**3.3 Inventory Management**

**3.3.1 Add/Edit/Delete Items**

* Sellers can add, edit, or remove items from their inventory.

**3.4 Reporting and Analytics**

**3.4.1 Generate Reports**

* Administrators can generate reports on sales, user activity, and system performance.

**4. External Interface Requirements**

**4.1 User Interfaces**

The system will have intuitive and responsive user interfaces for sellers, buyers, and administrators.

**4.2 Hardware Interfaces**

The system will operate on standard hardware with internet connectivity.

**4.3 Software Interfaces**

The system will use a database management system (e.g., MySQL) for data storage.

**5. Non-functional Requirements**

**5.1 Performance**

The system should handle a minimum of 1000 simultaneous users without significant performance degradation.

**5.2 Security**

User data, including personal information and transaction details, must be encrypted and stored securely.

**5.3 Reliability**

The system should have a 99% uptime, with regular backups and recovery procedures in place.

**6. Other Requirements**

**6.1 Legal and Compliance**

The system must comply with relevant data protection and privacy regulations.

**6.2 Documentation**

Comprehensive documentation, including user manuals and system architecture, should be provided for users and developers.

**6.3 Maintenance and Support**

A maintenance plan and support system should be established to address issues, provide updates, and offer user assistance.