**Lost and Found System – Software Requirements Specification**

**1. Introduction**

1.1 Purpose

The Lost and Found System is a digital solution aimed at facilitating the process of reporting lost items and assisting in their recovery within our college community. Inspired by personal experiences, this project aims to provide a convenient platform for students and staff to report lost items and reunite them with their rightful owners.

1.2 Scope

The Lost and Found System will include features such as item reporting, item search, item claim, and administrative functions for managing reported items. The system will be accessible to all members of the college community, including students, staff, and faculty.

1.3 Technologies Used

The system will be developed using the following technologies:

* HTML: For creating the structure of web pages.
* CSS: For styling and formatting the appearance of web pages.
* JavaScript: For adding interactivity and dynamic behavior to web pages.
* Firebase: For backend services, including data storage, authentication, and real-time updates.

**2. Functional Requirements**

2.1 Item Reporting

1. Users can report lost items by providing details such as item description, location, and date/time of loss.
2. 2. Users can optionally upload a photo of the lost item to aid in identification.

2.2 Item Search

1. Users can search for lost items by entering keywords or filtering search results based on item categories, locations, and dates.

2.3 Item Claim

1. Users who find items can report them as found and provide details such as item description, location, and date/time of discovery.
2. 2. Users can claim ownership of found items by providing supporting evidence or proof of ownership.

2.4 Administrative Functions

1. Admins can log in using special credentials to access administrative features.
2. 2. Admins can view and manage all reported lost and found items, including marking items as resolved or returning items to owners.

**3. Non-Functional Requirements**

3.1 User Interface

1. The user interface should be intuitive, easy to navigate, and visually appealing.
2. 2. The system should be responsive, supporting various screen sizes and devices.

3.2 Performance

1. The system should load quickly and respond promptly to user interactions.
2. The system should handle multiple concurrent users without significant performance degradation.error messages to users.

3.3 Security

1. User data should be securely stored and transmitted using encryption protocols.
2. Access to administrative functions should be restricted to authorized personnel.

3.4 Reliability

1. The system should be available and operational 24/7, with minimal downtime for maintenance.
2. The system should handle errors gracefully, providing inform

**4. Conclusion**

The Lost and Found System project aims to address the challenges associated with managing lost items within our college community. By leveraging HTML, CSS, JavaScript, and Firebase technologies, we aim to deliver a reliable, user-friendly solution that promotes transparency and facilitates the recovery of lost items.