**📄 Software Requirements Specification (SRS)**

**Project: Home Safety Management System (HSMS)**

**Purpose**

The purpose of this document is to outline the software requirements for the development of a web-based **Home Safety Management System (HSMS)**. The system is intended to help users assess, manage, and monitor various safety-related risks within their household.

**1.2 Scope**

This system will provide:

* Personalized dashboards for home safety management
* Risk assessments and mitigation guidance

**3.1 Functional Requirements**

**3.1.1 User Management**

* FR1.1: Users must be able to register and log in securely
* FR1.2: The system shall support multiple user roles
* FR1.3: Users can reset passwords via email

**3.1.2 Safety Assessment & Risk Register**

* FR2.1: Users can perform a home safety checklist assessment
* FR2.2: The system shall generate a risk score and safety tips
* FR2.3: Users can log incidents and safety issues

**Non-Functional Requirements**

| **Category** | **Requirement** |
| --- | --- |
| Performance | The system must support 1000+ concurrent users |
| Security | Data must be encrypted in transit and at rest |
| Usability | UI should be intuitive, mobile responsive, and accessible |

**✅ Acceptance Criteria for HSMS**

**🔐 1. User Registration & Login**

**AC1.1 – User Registration**

* **Given** a new user is on the registration page
* **When** they fill in valid details and submit
* **Then** their account should be created and confirmation email sent

**AC1.2 – Login with Valid Credentials**

* **Given** a registered user
* **When** they enter correct username and password
* **Then** they should be redirected to their personal dashboard

**AC1.3 – Forgot Password**

* **Given** a user who forgot their password
* **When** they use the reset password link and enter their email
* **Then** a reset link should be sent and allow password change