Software Requirements Specification (SRS) Document

### Seizure tracker web app

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# Revisions

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| 1.0 | Rupinder Jit Kaur | Initial Version |  |

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| Review & Approval |

## Requirements Document Approval History

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## Requirements Document Review History

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## 1. Introduction

### 1.1 Purpose:

This web application will help users to track the occurrence of seizures, along with other descriptive data like type of seizure, how long it lasted, after-effects, pre-events, etc. Reports generated daily/weekly/monthly will help the clients/doctors understand the severity of the condition and effectiveness of medication.

### 1.2 Document conventions:

### 1.3 Intended audience:

Developers, Testers

### 1.4 Scope:

Professional Learning and personal use.

### 1.5 References:

## 2. General Description

### 2.1 Product perspective:

The idea originated from personal experiences.

### 2.2 Product features:

The application should capture all the relevant data for a seizure event, with the ability to provide reporting the same.

1. Simple and easy to fill-up form, with pre-defined options which can be selected with a click.
2. Flexibility to generate reports as per user’s needs.

### 2.3 User class and characteristics:

1. Parents and caregivers of people diagnosed with Epilepsy

2. Health care professionals caring for similar patients in the hospital.

### 2.4 Operating environment:

Web browser from any device.

### 2.5 Constraints:

### 2.6 Assumptions and dependencies:

## 3. System Requirements

### 3.1 Functional requirements

Provide all requirements regarding the system or sub-system. These requirements will determine any output that the software is expected to provide in relation to a given input. These include the design requirements, graphics requirements, operating system requirements, and any constraints.

## 4.External Interface Requirements

### 4.1 User Interfaces

Define the interaction logic between the users and the software. This section should include a sample screen layout, buttons and functions that would appear on every screen, messages to be displayed on each screen, and the style guides to be used.

### 4.2 Hardware Interfaces

Provide all interactions between hardware and software that need to occur. This should include a list of supported devices on which the software is intended to run. List any network requirements including a list of communication protocols to be used.

### 4.3 Communications Interfaces

Here you will define all communication standards to be utilized by the software as a part of the project.

### 4.4 Software Interfaces

Define interactions between front-end and back-end frameworks being used. Describe the database management system and any libraries to be implemented. Describe the need and the purpose behind each of these.

## 5. Non-Functional Requirements

### 5.1 Performance requirements

The performance requirements need to be specified for every functional requirement. The rationale behind them also needs elaboration.

### 5.2 Safety requirements

List out any safeguards that need to be incorporated as a measure against any possible harm the use of the software application may cause.

### 5.3 Security requirements

Include any and all privacy and data protection regulations that need to be followed while designing the product

### 5.4 Software quality attributes

Detail the additional qualities that need to be incorporated within the software, such as maintainability, adaptability, flexibility, usability, reliability, portability, etc.

### 5.5 Other requirements

These may include the legal requirements, resource utilizations, future updates etc.