SOFTWARE REQUIREMENTS SPECIFICATION

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Project description

The idea that led to the realization of this project was the use of an open source platform for mapping and navigation such as OpenStreetMap and the use of different data that is already generated and serves our purpose .
All those components and data will be filtered and will be integrated with our web based application and will be in use to users ,who with small efforts will find the closest yet the highest rated hospitals in Switzerland and all the specific data such as website ,telephone number ,location and address.
This document contains all the initial requirements and specifications that our team considered as necessary to be part of our application.

Note : Not all the requirements are final and until the end of the development process ,part of those requirements may change , be removed or new requirements may be added.

Requirements

Functional requirements		
1.	The system must ask the user for permission to access their location	**Priority 1**
2.	The system automatically must find the user's location.	**Priority 1**
3.	The system must provide a list of the country's hospitals.	
3.1	The system must provide options for ordering the list of hospitals.	**Priority 1**
4.	The system must provide options for ordering the list of hospitals by the criteria of proximity in ascending and descending order.	**Priority 1**
4.1	The system must provide options for ordering the list of hospitals by the criteria of rating in ascending and descending order.	**Priority 1**
4.2	The system should provide a list of all the hospitals grouped by the name of the city they are located .	**Priority 2**
5.	The system shall provide options for commenting and rating an hospital without requesting users to log in.	**Priority 3**
6.	The system shall display a map with all the hospitals at the country level.	**Priority 3**
7.	The system should display a map with all the hospitals at the city level.	**Priority 2**
8.	The system must provide an option to the user to manually select their location.	**Priority 1**
8.1	The system must provide an option to the user to manually from the map select their location.	**Priority 1**
9.	The system must provide an option to the user for selecting a proximity radius for the search of hospitals near his location.	**Priority 1**
10.	The system must provide an option for selecting a certain hospital and showing its location on a map , showing its name ,address,rating and comments.	**Priority 1**
10.1	The system should provide a distance between users location and selected	**Priority 2**

	hospital location.	
10.2	The system shall provide a path between users location and selected hospital location.	**Priority 3**

Non functional requirements		
1.	The system must achieve at least 99.95% uptime (monthly maximum 22 minutes downtime) .	**Priority 1**
2.	After accessing the application the front page must be displayed not later than 3 seconds.	**Priority 2**
3.	The system should display the nearest hospital within 5 seconds on the demand of the user.	**Priority 2**
4.	The system should be updated at night between 01:00 AM and 02:00 AM.	**Priority 2**
5.	The system's user interface shall contain green,blue and white colors.	**Priority 3**
6.	The system shall support 500 users simultaneously.	**Priority 3**
7.	The system should contain a security and privacy policy.	**Priority 2**
8.	The system shall be functional again for a maximum of half an hour if a system crash occurs.	**Priority 1**
9.	The system’s data on the interface must be in German.	**Priority 1**
10.	The system’s data on the interface should be in French.	**Priority 2**
11.	The system’s data on the interface shall be in Italian.	**Priority 3**
12.	The system’s data on the interface shall be in English.	**Priority 3**

Prioritization

Priority 1 : *requirements that are a must , those requirements must be fulfilled in order for our system to be functional.*

Priority 2 : *requirements that should be fulfilled in order for our system to reach its potential.*

Priority 3 :*requirements that shall be fulfilled if are feasible and the developers during the final stages of development choose to .*