

# 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 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 shall 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 2 |
| 6.                      | The system must display a map with all the hospitals at the country level.  | Priority 1 |
| 7.                      | The system must display a map with all the hospitals at the city level.   | Priority 1 |
| 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 |
| 8.2                     | The system must provide an option to the user to write his address.   | 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 shall 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 shall achieve 99.5% uptime.   | Priority 1 |
| 2.                          | The system must load the front page within 2 seconds when accessing the app.             | Priority 1 |
| 3.                          | The system must display the nearest hospital within 3 seconds on the demand of the user. | Priority 1 |
| 4.                          | The system should be updated at night between 01:00 AM and 02:00 AM.                     | Priority 3 |
| 5.                          | The system must use cookies to save the users' previous activity.                        | Priority 1 |
| 6.                          | The system shall save the cookies for one month period since the user has made any c     | 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 one hour if a system crash occurs. | Priority 1 |
| 9.                          | The system should support 2000 users simultaneously.                                     | Priority 1 |
| 10.                         | The system's data should be displayed in German.   | Priority 1 |
| 11.                         | The system's data should be displayed in French.   | Priority 1 |
| 12.                         | The system's data should be displayed in Italian.  | Priority 1 |
| 13.                         | The system's data should be displayed in English.  | Priority 1 |