



WineSpots

Group project

ABSTRACT

Document for the software requirements and specifications of web application WineSpots

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Project description

We have decided to create a web application called “WineSpots”. What this application does is that when a user accesses it data is taken like the user’s location and the current time. Based on this information it shows users all the wine spots that are currently working. If there is more than one open winery at the time it gives users a list of wineries sorting them from closest to their current location.

The way we are intending for this application to work is by first collecting data for all the wineries in Macedonia from open sources and then using filtering and piping techniques to filter this data and make it easier for our users to find what they are looking for.

This document contains all the functional and non-functional requirements that we as a team thought were needed for this application to work.

Requirements

Functional requirements

Functional Requirements		
1.	The system must ask the user for permission to access their location.	Priority 1
2.	The system automatically must access the user's current location using geolocation services.	Priority 1
3.	The system must be able to access and use the current time of the user.	Priority 1
4.	The system shall maintain a database of wineries with information on their operating hours, location, and other relevant details.	Priority 1
5.	The system should calculate whether a winery is currently open based on the user's current time and the winery's operating hours.	Priority 1
6.	The system shall display a list of currently open wineries to the user on the application's interface.	Priority 2
7.	The system shall display a map with all the wineries located in the country.	Priority 3
8.	The system must implement a mechanism to sort the list of open wineries based on their proximity to the user's current location.	Priority 1
9.	The system must provide an option to the user to manually from the map select their location.	Priority 1
10.	The system shall allow users to click on a winery in the list to view more detailed information, such as address, contact details, and reviews.	Priority 2
11.	The system should provide a distance between user's location and selected winery.	Priority 2
11.1	The system shall provide a path between user's location and selected winery location.	Priority 3
12.	The system shall provide options for the user to leave reviews and ratings for wineries to provide feedback to the other users.	Priority 3
13.	The system should implement a notification system to alert users of any special events, promotions, or changes in winery status.	Priority 3
14.	The system must ensure that location data is handled securely, and that the application complies with privacy regulations.	Priority 2

Non functional requirements

Non-functional Requirements		
1.	The system must maintain operational availability for at least 99.95% of the time.	Priority 1
2.	The application should load within 3 seconds on average, ensuring a responsive user experience.	Priority 2
3.	The system should display the information requested by the user within 5 seconds.	Priority 2
4.	The system shall support 1000 users simultaneously.	Priority 3
5.	The web application should be accessible 24/7, allowing users to access information at any time, except during the short time when it is being updated.	Priority 2
	In case of a system crash, the system shall be restored and operational within a maximum of 20 minutes.	Priority 1
6.	The system should incorporate a security and privacy policy.	Priority 2
7.	Regular backups of the database should be performed to ensure that data can be recovered in case of system failures.	Priority 2
8.	The user interface should be user-friendly, requiring minimal training for users, as well as be easily accessible to users with disabilities.	Priority 3
9.	The information presented on the system's interface must be in English.	Priority 1
10.	The information presented on the system's interface should be in Macedonian.	Priority 2
11.	The information presented on the system's interface should be in Albanian.	Priority 2

Priority ranking

Priority 1: Essential requirements

Priority 2: Important requirements

Priority 3: Optional requirements