Project Description

This web application can help users find the closest hotels, restaurants, or fitness centers in just a few seconds. It allows the user to enter his/her location and pick which facility he/she is looking for. Then the app displays the closets ones to the user's location along with the route.

The purpose of this project is to make it easier for people that are looking for a place to stay, all of those who want to enjoy a nice meal or simply for all the fitness enthusiasts who want to find the perfect place for working out. This application will not only save them time looking for the perfect place but also provide them with all the information they need about each facility.

Functional Requirements

Priority level	Description
Priority 1	Essential Functionality
Priority 2	Desirable Functionality
Priority 3	Extra Features

1. The system shall keep a map of Skopje. (Priority 1)
2. The system shall have an "Enter location" option (Priority 1)
3. The system shall allow the user to choose which facility is looking for (Priority 1)
4. The system shall keep specifications about the facilities (Priority 1)
5. The system shall display a list of facilities upon entering location (Priority 1)
6. The system shall allow the user to choose a facility from the list (Priority 1)
7. The system shall calculate the shortest route to the chosen facility (Priority 1)
8. The system shall provide the name of the facility (Priority 2)
9. The system shall provide the address of the facility (Priority 2)
10. The system shall provide the working hours of the facility (Priority 2)
11. The system shall provide the contact information of the facility (Priority 2)
12. The system shall be accessible on all personal computers (Priority 2)
13. The system shall be supported on most browsers like Chrome, Firefox (Priority 3)
14. The system shall be available in both English and Macedonian language (Priority 3)
15. The system shall alert the user upon arriving at the destination (Priority 3)

Nonfunctional Requirements

Performance:

The system must be interactive, and the delays involved must be minimal. In every action-response of the system, there will be little to no immediate delays.

In the case of searching for nearby hotels, restaurants and fitness centers, the system will take no more than 10 seconds to find every facility within a given area.

In the case of calculating routes, the system will take no more than 10 seconds to find the shortest path to the selected facility.

In the case of calculating the estimated time for arrival, the system will take no more than 5 seconds to calculate and display a rough estimate of the duration of the route.

Scalability:

At first, the system will only support coverage of the city of Skopje, once initial testing is conducted expansion to more cities will be considered.

Availability:

The system will be available 24/7

The system will initially require an internet connection but using the system, the cache will slowly build up and will eventually allow for more and more efficient use without an internet connection.

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