

Healthy Spirit

This application is for exploring all the possibilities to be active in the city of Sarajevo. It will give the user a choice to select a certain type of activity, indoor or outdoor. When an activity is selected it will generate a list with all the possible locations and facilities the user can choose from.

By choosing the specific location/facility, the user can make a reservation(*if necessary*). When the user finishes the activity, he can make a rating (1-5 stars) for other users to see.

The app will help anyone, from common people who just want to take a easy hike on the nearby mountain, to the professional athletes, even tourists who want to have a good time.

Actors in our ,very simple yet complex to implement, system are:

- **Administrator;**
- **User;**

Administrator will have the following possibilities:

- will be corresponding with all the sport/recreation facilities for information;
- than information will then be used to create a profile for every facility;
- managing the schedule of every facility, adding free openings
- will have to notify the facility if there was an reservation;
- can delete anything/anyone from the system;

User will have the following possibilities:

- Picking a sport/activity;
- Choosing from various given locations/facilities;
- Making a reservation (if necessary);
- Rating the location/facility;
- Paying in advance *via PayPal*;
- Printing a confirmation for a reservation;

A special feature, that will be implemented in a thread, will be if a user picks an outdoor activity, then the weather analysis will be presented to the user.

User can print a reservation if he wants to have valid proof. And if the user wants to have a map from his current location guided to his chosen location, he can be guided by a GPS locator.

In our application we will be using some of the algorithms for searching and filtering our results, that we learned on the „Algorithms and data structures“.

Some of the constraints and nonfunctional requests in our system are:

- The user will receive an email 1 hour before the reservation;
- It is forbidden to cancel a reservation less than an hour before the reservation;
- One user can have up to 3 reservations max;

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