



Prenotalo

Laboratory of Advanced Programming Project
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What's Prenotalo?

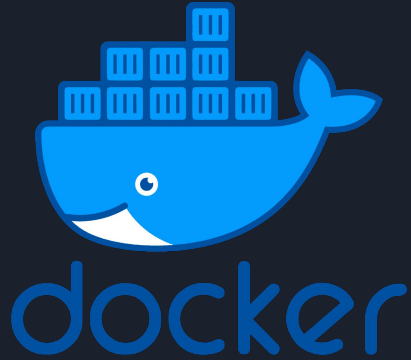
Prenotalo is a user-friendly platform that allows individuals and organizations to easily browse and book for events of all types.

Users can search for organizations by name or keywords. They can view events offered by them and also detailed event information, including the event date, time, location, and a description.

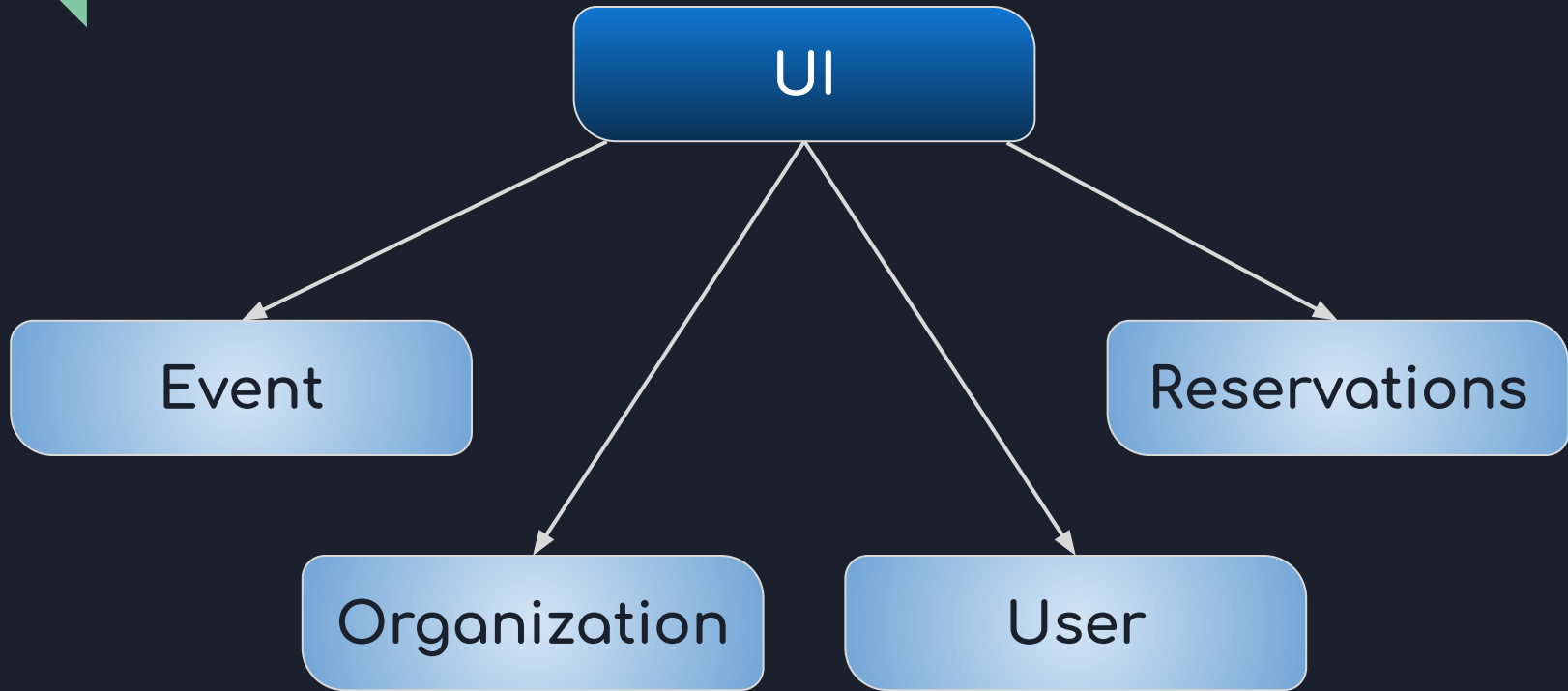
Once they find an event they are interested in, users can easily book their number of tickets needed directly through the application, possibly specifying special requests for the organizer.

An event organizer can easily browse through his/her events performing actions on it such as eliminating or modifying it and he/she has always the possibility to create a new event.

Technologies



Microservices





User microservice

The user microservice is used for retrieve users informations and manage login, registration and session key.

- **/sessions**
 - POST:
Receives: username and password in HTTP request body
Returns: session_id
- **/session/<session_id>**
 - GET:
used by other services for checking for authentication
Returns: HTTP codes 204 o 404
 - DELETE: execute logout by deleting a session
- **/users**
 - POST: creates a new user
- **/user/<id>**
 - GET: returns data of the specified user
 - PUT: update user data



Organization microservice

The Organization microservice is used for managing the organizations in order to add new organizations, retrieve a specific organization or the list of organizations and organization informations.

- **/organizations**
 - GET: returns all the organizations
 - POST: create a new organization
- **/organizations/categories**
 - GET: returns all the available categories
- **/organization/<id>**
 - GET: returns all the data of the specified organization



Event microservice

The Event microservice is used to retrieve the events of an organization, to create a new organization and for seeing all the reservations of an event.

- **/events[?organization_id]**
 - GET: returns all the events
 - ?organization_id: returns all the events of the specified organization
 - POST: create a new event
- **/event/<id>**
 - GET: return the specified event
 - DELETE: delete the event
 - PUT: update the event
- **/event/<id>/reservations**
 - GET: returns the reservations of a specified event



Reservations microservice

The Reservation microservice manages the reservations of event it can return all the reservations of an event, create a new reservation, update and delete it.

- **/reservations[?user_id || ?event_id]**
 - GET: return all reservations
 - ?user_id: returns all reservations done by the specified user
 - ?event_id: returns all the reservations done for the specified event
 - POST: create a new reservation
- **/reservation/<reservation_id>**
 - GET: return the specified reservation
 - PUT: update the reservation
 - DELETE: delete the reservation



Scrum artifacts