Ingegneria del Software e Progettazione Web

Progetto A.A. 2020/2021

BikersLand

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Indice

1. Software Requirement Specification

1.1. Introduction

1.1.1. Aim of the document

This document is intended to analyze the system and its functions.

1.1.2. Overview of the defined system

BikersLand is a bike event planner system which provides the opportunity to create and manage events that can be joined by multiple users.

1.1.3. Operational settings

The System is available for any personal computer, both as a desktop and web application, on any Operating System.
Requirements: Java Runtime Environment, an Internet Connection and one of these web browser: Opera, Firefox, Chrome or Microsoft Edge.

1.1.4. Related systems, Pros and Cons

Web App similar to BikersLand are Facebook Events and Event Marketer.
The main characteristic of BikersLand is that our system provides some exclusive features thought for the bikers' event universe, like some particular tags to create and research events, and the possibility to create and join events with other users. The app also allows you to look at the details of an event and know who is participating. These functionalities are available in the web app version only if you have an internet connection. A disadvantage of BikersLand is that it does not provide an internal chat service between users, thus not allowing them to organize the route.

1.2. User Stories

1. As a registered user, I want to create a new bike trip, so that I can reach the destination with other users that join the trip.
2. As a user, I want to find an intuitive graphic interface, so that I can easily register my profile.
3. As a registered user, I want to see trip details[1], so that I know who is participating.
4. As a registered user, I want to search for events by specific search filters[2], so that I can choose the event that is most suitable for me.
5. As a registered user, I want to save my favorite events, so that I can find them faster.
6. As a registered user, I want to have the possibility to manage my joined trips, so that I can decide to remove or maintain my participation.

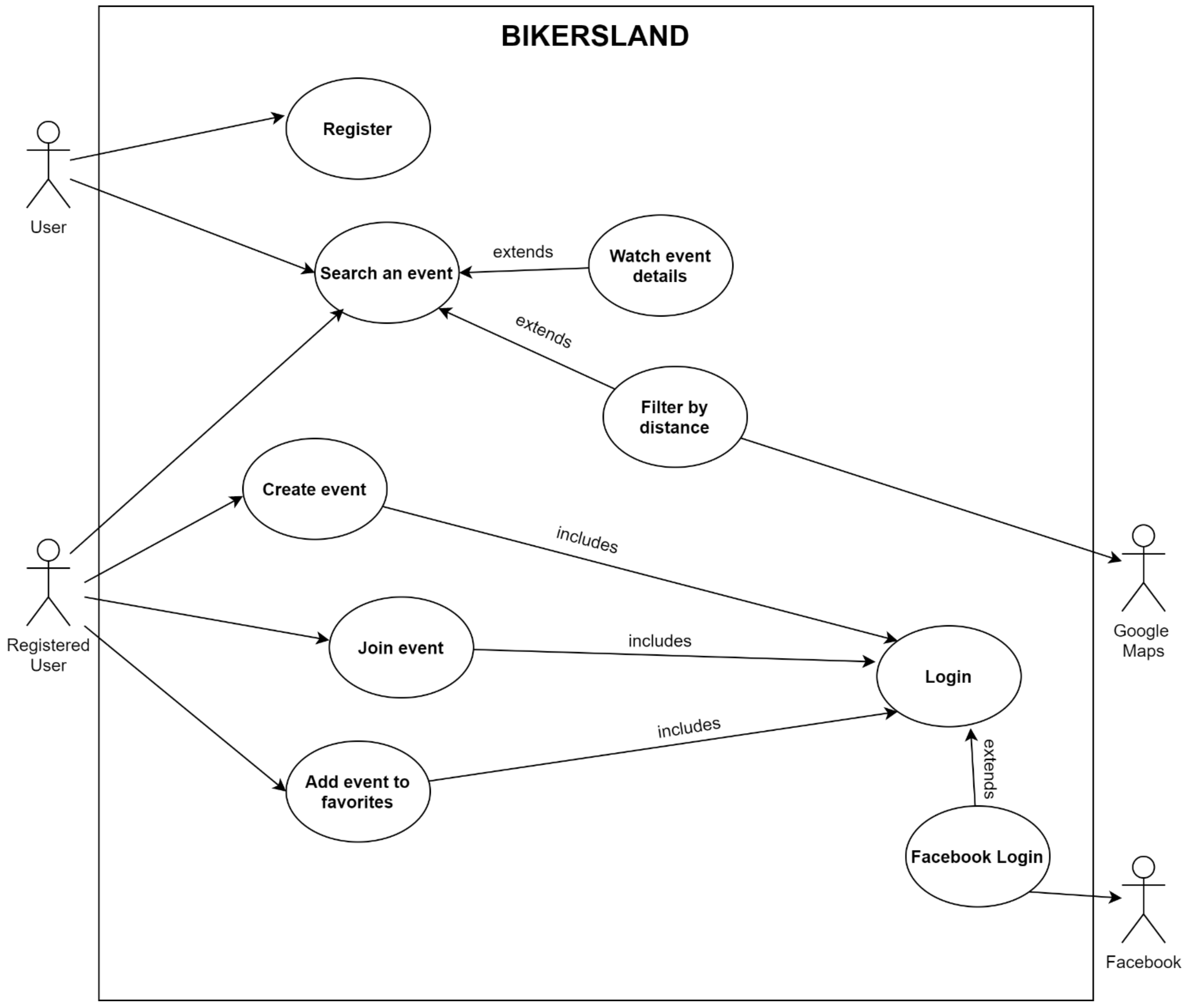
[1] Details: title, departure date, return date, departure city, destination city, participants, description, tags, date of creation and creator.

[2] Filters: departure city, destination city and trip tags.

1.3. Functional Requirements

1. The system shall provide a search area with specific search filters[3].
2. The system shall provide a “Create New Event” feature.
3. The system shall provide a registration form that requires First and Last Name, Username, E-Mail, E-Mail Confirm, Password, Password Confirm.
4. The system shall provide a login feature.
5. The system shall provide a “Join Event” feature.
6. The system shall provide a feature to save favorite events.

1.4. Use Case Diagram

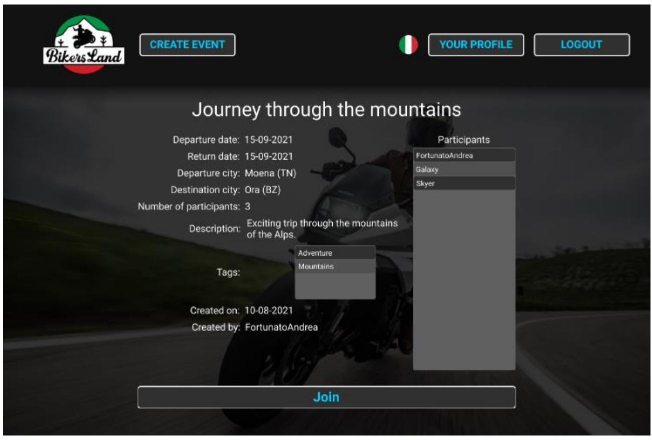


At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “Use Case Diagram” which contains a pdf version of diagram.

[3] Filters: departure city, destination city and trip tags.

2. Storyboards

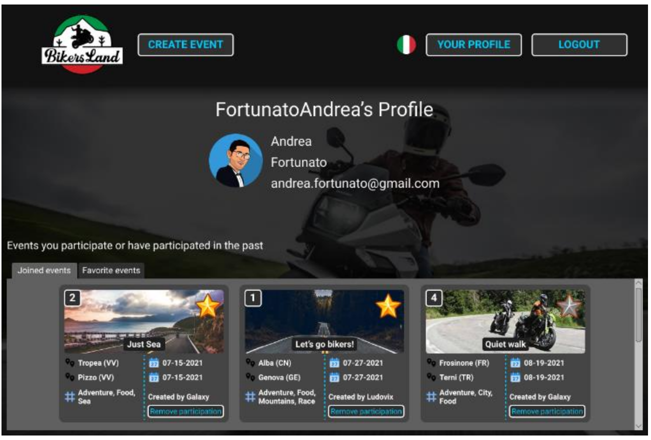
Fortunato Andrea



Journey through the mountains

Departure date: 15-09-2021
Return date: 15-09-2021
Departure city: Moena (TN)
Destination city: Ora (BZ)
Number of participants: 3
Description: Exciting trip through the mountains of the Alps.
Tags: Adventure, Mountains
Created on: 10-08-2021
Created by: FortunatoAndrea

Participants: FortunatoAndrea, Galaxy, Skyer



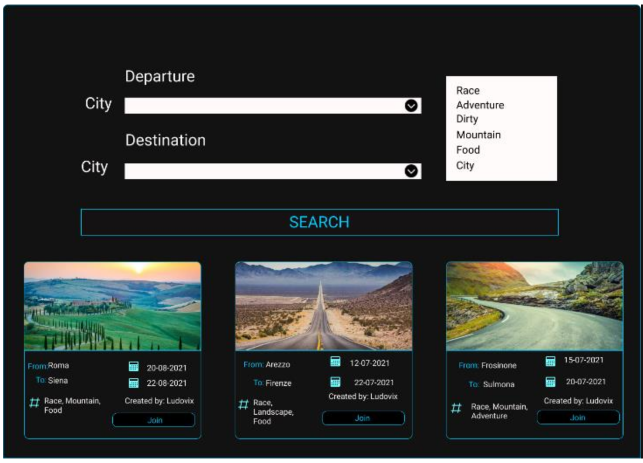
FortunatoAndrea’s Profile

Andrea
Fortunato
andrea.fortunato@gmail.com

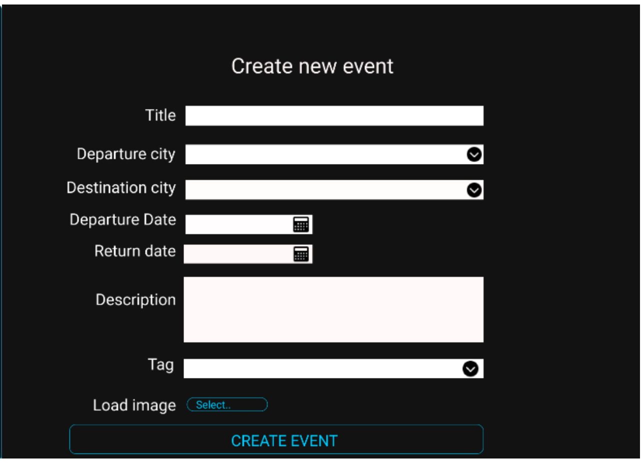
Events you participate or have participated in the past

2	Just Sea	Tropea (VV) Pizzo (VV)	07-15-2021 07-15-2021	Adventure, Food, Sea	Created by Galaxy
1	Let’s go bikers!	Alba (CN) Genova (GE)	07-27-2021 07-27-2021	Adventure, Food, Mountains, Race	Created by Ludovix
4	Quiet walk	Frosinone (FR) Terni (TR)	08-19-2021 08-19-2021	Adventure, City, Food	Created by Galaxy

De Santis Ludovico



From: Roma To: Siena	20-08-2021 22-08-2021	Race, Mountain, Food	Created by: Ludovix
From: Arezzo To: Firenze	12-07-2021 22-07-2021	Race, Landscape, Food	Created by: Ludovix
From: Frosinone To: Sulmona	15-07-2021 20-07-2021	Race, Mountain, Adventure	Created by: Ludovix



At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “Storyboards” which contains an HTML version of the storyboards.

3. Design

3.1. Class Diagram

3.1.1. VOPC

At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “Class Diagram” which contains a folder “VOPC” with the VOPC’s pdf files.

3.1.1. Design Level Diagram

At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “Class Diagram” which contains a folder “Design Level Diagram” with the diagrams pdf files.

3.2. Activity Diagram

At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “Activity Diagram” which contains the diagrams pdf files.

3.3. Sequence Diagram

At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “Sequence Diagram” which contains the diagrams pdf files.

3.4. State Diagram

At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “State Diagram” which contains the diagrams pdf files.

4. Testing

4.1. JUnit Test

The Java Project has a package named “src.test.java.junit” which contains the file “Junit.java” with the JUnit’s tests.

4.2. Selenium GUI Test

At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “Selenium GUI” which contains the Selenium GUI files.

4.3. Selenium API Test

The Java Project has a package named “src.test.java.selenium” which contains the file “SeleniumAPI.java” with the Selenium API tests.

5. Video

At the end of the document, there is a link to Github with the folder “Deliverables”: there is another folder “Video” which contains a short video that introduces the main features of BikersLand.

Github Deliverables&SonarCloud: https://github.com/andreafortunato/BikersLandSonar
Github Full Project Code: https://github.com/andreafortunato/BikersLand
SonarCloud: https://sonarcloud.io/dashboard?id=andreafortunato_BikersLandSonar