

SOFTWARE ENGINEERING FOR GEOINFORMATICS PROJECT

Test Report 1.0

Project name: BIKOD

Prepared by: AbdelGafar, Omar

Ruken, Dilara Zaf

Submission Date: 09.06.2019

Table of Contents

List of Tables	4
1. Introduction	5
1.1 Purpose	5
2. Use case Model validation	5
2.1 Registration	5
2.2 Signing in	6
2.3 Sign Out	7
2.4 Popup	8
2.5 Query	9
2.6 Statistical Query	10

Revision History

Name	Date	Reason for Changes	Version

List of Tables

TABLE 1: REGISTRATION USE CASE UC01	5
TABLE 2: SIGN IN USE CASE UC02	6
TABLE 3: SIGN OUT USE CASE UC03	7
TABLE 4: POPUP USE CASE UC04	8
TABLE 5: QUERY USE CASE UC05	9
TABLE 6: STATISTICAL QUERY UC06	10

1. Introduction

1.1 Purpose

The purpose of the Test report is to check the functionality of BIKOD website and how it is close to fulfill the use cases that mentioned in the Requirement Analysis and Specification Document (RASD).

2. Use case Model validation

2.1 Registration

Table 1: Registration Use case UC01

Use Case ID	UC01
Actors	BIKOD User
Entry condition	The user opens his/her browser and serve for the Website and goes to sign up page
Flow of events	<ul style="list-style-type: none"> • The user opens the browser and types the address of the system. • User presses the sig up button. • User enters her or his user name, surname and password.
Exit Condition	<ul style="list-style-type: none"> • If all the required fields are properly filled, the user will be redirected to the main page of the system.
Exceptions	If one of the required fields (username, email and password) in sign up page are not filled properly, the warning message will be shown by the system.
Special Requirements	None
Validation	<ol style="list-style-type: none"> 1- Check username field not empty. 2- Check email field is string. 3- The password length must be greater than 8. 4- The repeated password must be equal to the password. 5- Check the connection with the database
Success	100%
Failure	0
Final result	<ul style="list-style-type: none"> • This use case has been tested and the validation is achieved. • For the admin phase: it will be tested in the second stage of BIKOD implementation.

2.2 Signing in

Table 2: Sign in Use Case UC02

Use Case ID	UC02
Actors	<ul style="list-style-type: none"> • BIKOD User • BIKOD Admin
Entry condition	User will be able to use the system
Flow of events	<ul style="list-style-type: none"> • The user/admin opens the browser and types the address of the system. • User/admin presses the log in button. • User/admin enters her or his user name and password. • User/admin enters her or his user name, surname and password.
Exit Condition	<ul style="list-style-type: none"> • If the user enters his or her user name and password information correctly, user will be redirected to the application relevant page of the system.
Exceptions	If one of the required fields (user name, password) in log in are not right, the warning message will be shown by the system.
Special Requirements	None
Validation	<ol style="list-style-type: none"> 1- Check username field not empty. 2- Check password field not empty. 3- Check user account data (username and password) is the matched the user database)
Success	100%
Failure	0
Final result	<ul style="list-style-type: none"> • This use case has been tested and the validation is achieved. • For the admin phase: it will be tested in the second stage of BIKOD implementation.

2.3 Sign Out

Table 3: Sign out Use Case UC03

Use Case ID	UC03
Actors	<ul style="list-style-type: none"> • BIKOD User • BIKOD Admin
Entry condition	User/admin will be able to use the system
Flow of events	<ul style="list-style-type: none"> • The user/admin presses the log out button. • User/admin leaves the system. • The system's main page will be loaded.
Exit Condition	User will be able to leave the system.
Exceptions	None
Special Requirements	None
Validation	1- Check that once the user clicks the logout button, the user will sign out from the website.
Success	100%
Failure	0
Final result	<ul style="list-style-type: none"> • This use case has been tested and the validation is achieved. • For the admin phase: it will be tested in the second stage of BIKOD implementation.

2.4 Popup

Table 4: Popup Use case UC04

Use Case ID	UC04
Actors	<ul style="list-style-type: none"> • BIKOD User • BIKOD Admin
Entry condition	User/admin shall sign in to the system
Flow of events	<ul style="list-style-type: none"> • The user/admin selects the station by one click on it. • The web shows the status, number of available bikes and number of free stalls per station.
Exit Condition	User/admin can see information about the bike station.
Exceptions	The admin/ user must click on the station to make the popup disappear again
Special Requirements	None
Validation	1- Check pop up information on the map once we click or touch it.
Success	100%
Failure	0
Final result	<ul style="list-style-type: none"> • This use case has been tested and the validation is achieved. • For the admin phase: it will be tested in the second stage of BIKOD implementation.

2.5 Query

Table 5: Query Use Case UC05

Use Case ID	UC05
Actors	<ul style="list-style-type: none"> • BIKOD User • BIKOD Admin
Entry condition	User/admin shall sign in to the system
Flow of events	<ul style="list-style-type: none"> • The user/admin double click the required station. • The web shows a window at which the user/admin can enter the quarried time. • The web shows an interactive graph showing the number of bikes per time at the station till the quarried time. • The user/admin can press the exit button to close the window
Exit Condition	The user /admin sees the number of bikes for each station in an interactive graph.
Exceptions	None
Special Requirements	None
Validation	None
Success	None
Failure	None
Final result	<ul style="list-style-type: none"> • It will be tested in the second stage of BIKOD implementation.

2.6 Statistical Query

Table 6: Statistical Query UC06

Use Case ID	UC06
Actors	<ul style="list-style-type: none"> • BIKOD User • BIKOD Admin
Entry condition	Admin shall sign in to the system
Flow of events	<ul style="list-style-type: none"> • The admin clicks on Statistical query button. • The web opens a new window showing the data bases for users and bikes. • The admin performs statistical operations. • The admin requests interactive graphs for each station and for all stations.
Exit Condition	The admin monitors the bike sharing system through the statistical graph which allows him to take a decision
Exceptions	None
Special Requirements	None
Validation	<ol style="list-style-type: none"> 1- Check the connection with the data base 2- Check the connection with bokeh server 3- Check the if the interactive graphs are working
Success	65%
Failure	35%
Final result	The validation fails when flask ask for request data from bokeh server.