ÇANKAYA UNIVERSITY
FACULTY OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

Test Plan, Test Design Specifications and Test Cases
Version 1

CENG 408
Innovative System Design and Development II

SUMMER TRAINING INFORMATION SYSTEM

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1. INTRODUCTION

1.1 Version Control

Version No	Description of Changes	Date
1.0	First Version	May 19, 2023

1.2 Overview

It will be tested whether the map system on our site will work properly and whether the road map will be drawn properly according to the selected data.

1.3 Scope

The purpose of this document includes the test cases and results of the map page that does the actual work of our Friendly Gas project.

1.4 Terminology

Acronym	Definition
FG	If the user does not use filtering, it represents whether it finds the benches within 10 km from their location.
FLT	It represents whether the gas stations coming after filtering are correct according to the filtering.
LCT	Represents the accuracy of the user's location on the map.
RM	It represents the accuracy of the road drawing to the location on the map after the gas station is selected.
FAQ	Represents the questions on the FAQ page.

2. FEATURES TO BE TESTED

2.1 Find Gas (FG)

The API we use to pull gas information will be tested. It will be checked whether the incoming data is correct.

2.2 Filter (FLT)

The accuracy of petrol stations and petrol types appearing in the filter will be tested. In addition, it will be tested whether the selected filter is filtering according to the API containing gasoline information.

2.3 Location (LCT)

It will be tested whether the locations of the users coming from the Google Map API are correct on the map. In addition, it will be checked whether the location can be obtained.

2.4 Road Map (RM)

When the incoming user clicks on the gas stations listed according to their location, it is tested whether the road map is drawn or not.

2.5 FAQ (FAQ)

It will be tested whether the questions and answers changed on the admin page are updated on the FAQ page.

3. FEATURES NOT TO BE TESTED

3.1 Homepage

We don't need to do any testing on the homepage. Because there is no work that the homepage does in the background that needs to be tested.

4. ITEM PASS/FAIL CRITERIA

If the user's location is not active on the page on which the map is located, the map will have problems in the road drawing case.

4.1 Exit Criteria

In this document, "H" stands for Highest priority, "M" stands for Medium priority, and "L" stands for Low priority.

High and Medium Priority tests passed 85%.
Low Priority tests passed 100%.

5. Test Design Specification

5.1 Find Gas

TC_ID	FG.01
Purpose	The API we use to pull gas information will be tested. It will be checked whether the incoming data is correct.
Requirements	-
Priority	H.
Estimated Time Needed	-
Dependency	Getting location information
Procedure	[A01] Go to Nearest Gas Station page.

	[A02] Open the location.
	[A03] Checking gas station data by location.
Cleanup	Exit

5.2 Filter

TC_ID	FLT.01
Purpose	The accuracy of petrol stations and petrol types appearing in the filter will be tested. In addition, it will be tested whether the selected filter is filtering according to the API containing gasoline information.
Requirements	-
Priority	M.
Estimated Time Needed	-
Dependency	Receiving gas station and gas information.
Procedure	[A01] Go to Nearest Gas Station page.
	[A02] Open the location.
	[A03] Opening the map to the location and listing the petrol stations and petrol information.
	[A04] Selecting filters and checking the information listed on the screen
Cleanup	Exit

5.3 Location

TC_ID	LCT.01
Purpose	It will be tested whether the locations of the users coming from the Google Map API are correct on the map. In addition, it will be checked whether the location can be obtained.
Requirements	-
Priority	H.
Estimated Time Needed	-
Dependency	The user location is open.
Procedure	[A01] Go to Nearest Gas Station page.
	[A02] Open the location.
	[A03] The accuracy of the user's location on the map.
Cleanup	Exit

5.4 Road Map

TC_ID	RM.01
Purpose	When the incoming user clicks on the gas stations listed according to their location, it is tested whether the road map is drawn or not.
Requirements	-
Priority	M.
Estimated Time Needed	-
Dependency	The user has to choose one of the listed petrol stations.
Procedure	[A01] Go to Nearest Gas Station page.
	[A02] Open the location.
	[A03] Selecting petrol stations.

	[A04] Control of the path drawn between the user location and the gas station location on the opened map.
Cleanup	Exit

5.5 FAQ

TC_ID	FAQ.01
Purpose	It will be tested whether the questions and answers changed on the admin page are updated on the FAQ page.
Requirements	-
Priority	L.
Estimated Time Needed	-
Dependency	-
Procedure	[A01] Go to Admin page.
	[A02] Login to Admin page.
	[A03] Updating questions and answers.
	[A04] Go to FAQ page.
	[A05] Checking for updated questions and answers.
Cleanup	Exit

6. REFERENCES

[1] https://github.com/CankayaUniversity/ceng-407-408-2022-2023-Friendly-Gas/wiki/Software-Design-Document
[2] https://github.com/CankayaUniversity/ceng-407-408-2022-2023-Friendly-Gas/wiki/Software-Requirements-Specification