Test Plan

Journey Organiser
<2.0>

University of Kent

Version	Date	Author	Approved by	Description
1.0	03/11/2015	Karol Baran	-	First version of the contingency plan
3.0	11/11/2015	Mateusz Maly	Jan Gucwa	Added sections 3, 4 and 5. Reviewed the document

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1. Introduction

This document contains a plan which aims to test the system implemented against the initial specifications and requirements.

2. Testing strategy

The system test is divided into several categories which should simplify the overall testing procedure as well as the ability to locate and correct bugs and errors.

2.1 System test

The System tests will focus on the behavior of the implemented system. We aim to perform at least 1 test for every minor function and a variety of tests for the more complex features using different combinations of inputs.

2.2 Accuracy test

How accurate is the system in the real world? This aspect is very important as the whole idea of our system is to provide users with accurate information.

2.3 Performance test

Test the general responsiveness of the system. How quickly will the system come up with a solution for a very complex journey involving all possible means of transportation?

2.4 Stress test

How well does the system perform under heavy loads? This test will mostly determine if the system is capable of handling multiple queries (10s-1000s) within reasonable time frame. Similarly to the performance test, the stress test will determine the effectiveness and efficiency of algorithms implemented in the system

2.5 Recovery test

The entire system is based on data gathered from outside sources. How does the system respond when those sources fail to provide data at a given moment.

2.6 User acceptance test

Our final test will involve potential users directly. We aim to gather a group of people of different ages, occupations and interests and let them try out the

3. Schedule

Unit tests – 11/03/2016

System tests – 17/03/2016

User Acceptance tests – 24/03/2016

4. Functions to Be Tested

- App and website user Interface
- Location/ destination input
- Map location search
- Combo boxes
- Connection to the server
- Parsing of information in the server
- Sending the information to the APIs
- Parsing of the results by the server
- Displaying results by the app and the website
- Sorting of the results
- Route map
- Accuracy of the results

5. Resources

Testing start and end dates will be decided by the project manager and the test analyst. The test analyst will be responsible for coordinating resources and managing the whole testing process. The testers will be responsible for writing test cases and executing the tests.

5.1 Human Resources

The test team will consist of:

- Project Manager
- Test Analyst
- Chief Software Engineer
- QA Analyst
- Documentation Lead

5.2 Responsibilities

Project Manager

- Responsible for project schedules and overall success of the project.

Test Analyst

- Responsible for overall success of test cycles.

Chief Software Engineer

- Responsible for correction of the errors found throughout testing.

QA Analyst

- Ensures the test documentation and various patches are consistent with the rest of the system.

Documentation Lead

- Responsible for checking the test logs for consistency.

Testers

- Responsible for performing the tests.

6.Test Table

Test no.	Description	Assigned to (member)	Expected result (pass/fail)	Completed on (date)	Actual result (pass/fail)	Correction