Sprint 2: Project

Requirements Analysis

**Requirement ID:** FR-1

The interface shall have two input fields, labeled “From” and “To,” and three mode options, labeled “Optimal,” “Fastest,” and “Custom,” as well as icons for going on foot and other types of transport (the user’s car, car-sharing, taxi, scooter, or bicycle).

Atomic Blocks:

1. Ensure the app displays a “from” field
2. Ensure the app displays a “to” field
3. Ensure the app displays an “optimal” mode option
4. Ensure the app displays a “fastest” mode option
5. Ensure the app displays a “custom” mode option
6. Ensure the app displays a “going on foot” icon
7. Ensure the app displays the icon for the user’s car
8. Ensure the app displays a “car-sharing” icon
9. Ensure the app displays a “taxi” icon
10. Ensure the app displays a “scooter” icon
11. Ensure the app displays a “bicycle” icon

**Requirement ID:** FR-2

The user shall enter the departure point and destination into the appropriate fields. Spaces shall be allowed at the beginning and the end of the addresses; however, the system shall delete those spaces when the mentioned fields are not in focus.

Atomic Blocks:

1. Ensure the app allows a “departure point” to be entered
2. Ensure the app allows a “destination” to be entered
3. Ensure spaces are allowed at the beginning of the addresses
4. Ensure spaces are allowed at the end of the addresses
5. Ensure the spaces at the beginning of the “departure point” are deleted when the field is not in focus
6. Ensure the spaces at the end of the “departure point” are deleted when the field is not in focus
7. Ensure the spaces at the beginning of the “destination” are deleted when the field is not in focus
8. Ensure the spaces at the end of the “destination” are deleted when the field is not in focus

**Requirement ID:** FR-3

The initial state of the fields that require input from users (”From” and “To”) shall be empty. None of the three modes shall be selected, and the transport panel shall be inactive.

Atomic Blocks:

1. Ensure that the initial state of the “From” field is empty
2. Ensure that the initial state of the “To” field is empty
3. Ensure that the “Optimal” mode is not selected
4. Ensure that the “fastest” mode is not selected
5. Ensure that the “custom” mode is not selected
6. Ensure that the “transport panel” is inactive

**Requirement ID:** FR-4

In address fields, the software shall only allow the user to enter numbers, spaces, dashes, periods, commas, and Latin characters in these fields. The maximum length of each address is 50 characters. Spaces at the beginning and end of addresses will be trimmed when the fields are not in focus. If the user enters invalid data in either field, the software shall display the error message “Incorrect address.”

Atomic Blocks:

1. Ensure that the users can enter “numbers” into the “From” field
2. Ensure that the users can enter “numbers” into the “To” field
3. Ensure that the users can enter “spaces” into the “From” field
4. Ensure that the users can enter “spaces” into the “To” field
5. Ensure that the users can enter “dashes” into the “From” field
6. Ensure that the users can enter “dashes” into the “To” field
7. Ensure that the users can enter “periods” into the “From” field
8. Ensure that the users can enter “periods” into the “To” field
9. Ensure that the users can enter “commas” into the “From” field
10. Ensure that the users can enter “commas” into the “To” field
11. Ensure that the users can enter “latin characters” into the “From” field
12. Ensure that the users can enter “latin characters” into the “To” field
13. Ensure that 50 characters is the maximum character length of the “From” field
14. Ensure that 50 characters is the maximum character length of the “To” field
15. Ensure that more than 50 characters cannot be entered into the “From” field
16. Ensure that more than 50 characters cannot be entered into the “To” field
17. Ensure that spaces at the “beginning” of the addresses will be trimmed when field is not in focus
18. Ensure that spaces at the “end” of the addresses will be trimmed when field is not in focus
19. Ensure that if invalid data is entered into the ”From” field the “Incorrect address” error message displays
20. Ensure that if invalid data is entered into the ”To” field the “Incorrect address” error message displays

## Test Planning

Use the test plan to fill in the following sections:

| Information | Description of software being tested | Person/people responsible for communicating strategic changes to the team | Digital infrastructure used in testing | Application's features and functionalities | Measures that should be taken to avoid delays |
| --- | --- | --- | --- | --- | --- |
| The section it can be found in | *1.2 Application summary* | 4.2  *Test lead* | 5  *Software and Hardware resources* | 1.2  *Application summary* | 6  *Risk & Mitigation* |