Urban Routes 23: Requirements

Urban Routes is a service that builds routes and calculates travel time and cost for different types of transportation.

User Interface (UI)

Interface design

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).

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.

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.

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".

Requirement ID: FR-5

If both address fields contain the correct input, points "A" and "B" shall be shown on the map. If any of these fields contain incorrect input, points "A" and "B" shall not be displayed. In the case of incorrect input, the field shall be highlighted in red and an error message shall appear. See the "distances" tables in the "tables" section for examples of test addresses.