Software Requirement Specification

Plan and Go:

Visual Public Transportation Analysis Tool

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Software Requirement Specification

The purpose of our system is to assist city planners in organizing the public transport system in Västra Götalands region.

City planners will use our system via a web application where they can view and compare live user requests. After some analysis, this system will allow them to make decisions to help allocate resources to demand.

Software Requirements Document

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Functional Requirements

FR 1	The system shall allow the city planner to view traveler requests on a map.
FR 2	The system shall be used to visualize transport demands on Västra Götalands area.
FR 3	During Interactive Mode, the system shall display a randomized user initial location and destination location on the map. FR 3.1. The system shall allow the city planner to view the traveler request locations on a given day according to time. FR 3.2. The system shall display all the requests generated on the map. FR 3.3. The system shall allow the city planner to view requests of a particular purpose.
FR 4	During Data Driven Mode, the system shall allow the user to view all requests at the same time. FR 4.1. The system shall update the visualiser based on new requests being generated. FR 4.2. The system shall cluster requests on a map based on the region.
FR 5	The system shall allow the city planner to switch the display between Data Driven mode and Interactive mode.
FR 6	The system shall only visualize requests where both the origin and destination is on land.

Non Functional Requirements

NFR 1	The system shall display real-time user valid requests within 10 seconds of being filtered.
NFR 2	The system should not break when a sub-system does not respond as expected.
NFR 3	The system shall not crash when wrongly formatted data inputs are made.

Constraints

C 1	The system shall use middleware based on the MQTT protocol as the basis for distributed
	communication.