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| CS7CS3 - Advanced Software Engineering – Group 5  Technical Specification Document  SUSTAINABLE CITY MANAGEMENT |

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**APPROVALS**

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# Introduction

The goal of this project is to provide a decision-support tool for city managers and city service providers to optimize mobility service delivery. A dashboard will be implemented that provides information to mobility service providers as to the current volume of usage, the emissions impact of current travel patterns, and potential areas of over- or under-use.

## Purpose of the document

This Technical Specification Document will provide detailed information on *how* the system solution will implement the requested behavior. This document is created based on the high-level requirements identified in the Business Requirements Document. It contains the details of system architecture, system requirements and the external technologies that will be used.

## 1.4 Related documents

|  |  |  |
| --- | --- | --- |
| **Component** | **Name (with link to the document)** | **Description** |
|  |  |  |

## 1.5 Terms/Acronyms and Definitions

|  |  |  |
| --- | --- | --- |
| **Term/Acronym** | **Definition** | **Description** |
|  |  |  |

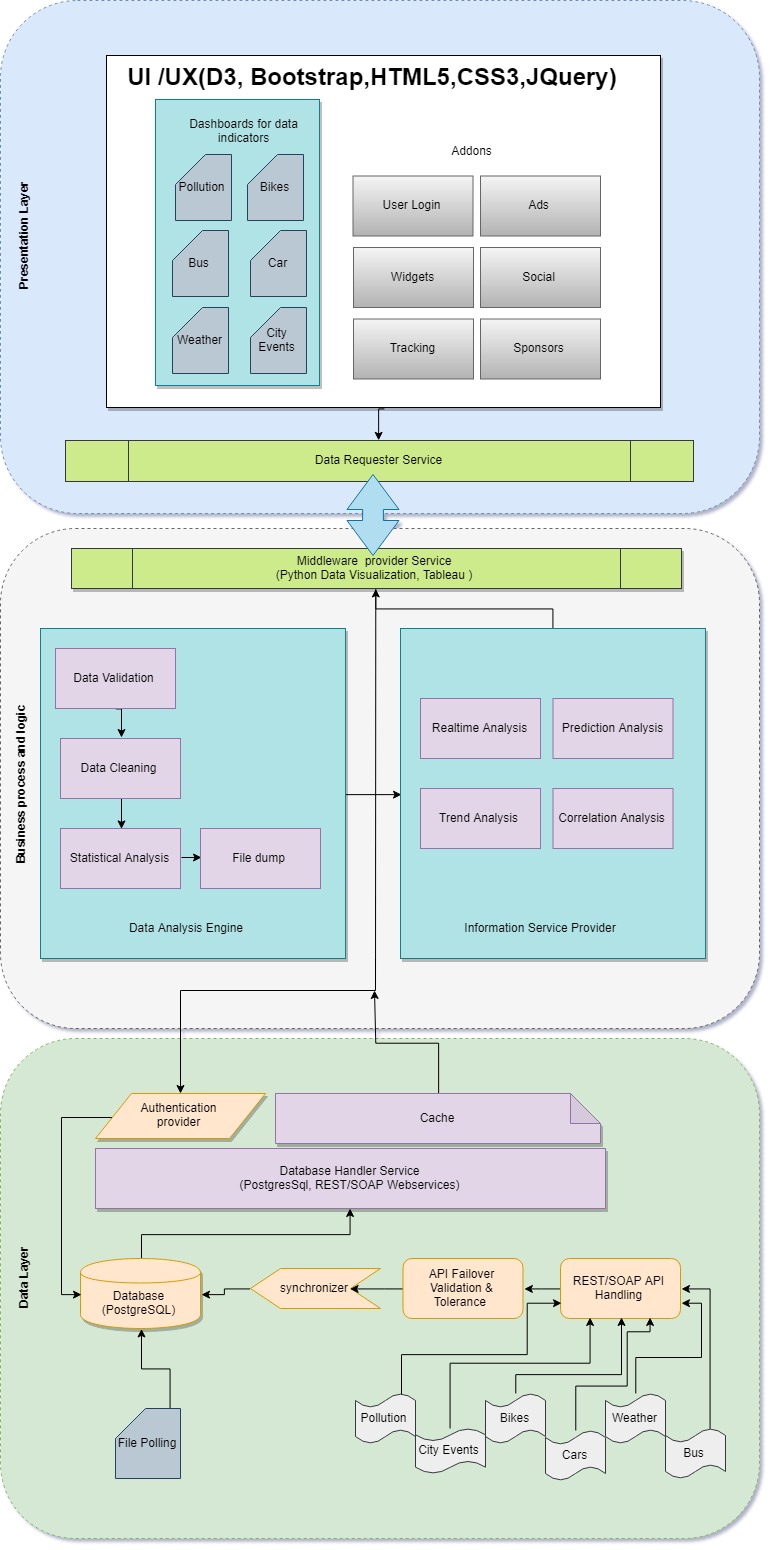
## 1.6 Risks and Assumptions

This document assumes that the

# System/ Solution Overview

The system will be designed using the three-layered architecture namely Data Layer, Business processing logic Layer and Presentation layer. Each of this layer will support different aspects of the Business requirement.

## Architecture Diagram



## System requirements

Following describes the minimum system requirements for the system to be functional for required number of audiences.

* OS: Linux – Ubuntu 18.04
* Memory: 16 GB DDR5
* Storage: 1TB NAS with RAID 1 Mirroring
* Database: PostgreSQL v-11.1
* Technologies: Python, Django framework, D3, Tableau
* Webserver: Apache / NGIX

# Fault tolerance

# References

# Open Issues

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Issue ID** | **Issue** | **Raised By** | **Raised On** | **Solution/ Decision** | **Resolved By** | **Resolved On** | **Status** |
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# Appendix