# Project requirements Document- Smart city Project

## List of requirements: Overview of document

**1.0 Stakeholders:**

* Product Owner (Brandon Valera), Head Programmer (Joel Sanderson), Programmer/ Scrum Master (Xander O’Dempsey), Programmer (Nafisa Anzum).

**2.0 List of client requirements:**

* Web based system which stores information about Brisbane City
* The system should cater favour types of users; tourists, students, businessman and administrator
  + Every user should be able to log on and be able to view primarily relevant information based on their user type and this will be described later.
  + Any user should be able to view information related to other user types (eg. Tourist can view student information’s and etc.) but only temporarily while remaining logged in the system current session.
  + Anyone should be able to create a user account
    - An existing user should be able to log into the system via username and password.
  + The administrator account is a special account which can be created using a separate webpage
* The welcome page should be able to facilitate anybody and allow them to navigate easily and be able to create a new user account with the user types of; student, tourist or businessman.
* There must be a requirement where the new user creating an account must provide the following details:
  + A unique username
  + A password
* The database system must be capable of storing additional information such as:
  + Phone numbers
  + Email address
  + Residential address
    - Not an important requirement for the user during the registration. Can be done later.

**3.0 User Type Role requirements:**

* Administrator:
  + An administrator can only be created by another administrator.
  + The role of the administrator to be responsible for creating/ modifying all the data for the city. Data for colleges, industries, libraries and hotels is separate from city information. City information consists of data for parks, zoos, museums, malls, restaurants and city map.
  + Within the database system, the administrator should be able to create the following information in the system:
    - Colleges: college name, address, departments and email address
    - Libraries: library name, address, phone number and email address
    - Industries: industry name, address, industry type and email address
    - Hotels: hotel name, address, phone and email address
    - Parks: park name, address, phone and email address
    - Zoos: zoo name, address, phone and email address
    - Museums: museum name, address, phone and email address
    - Restaurants: restaurant name, address, phone and email address
    - Malls: mall name, address, phone and email address
  + The administrator must be able to upload a map of the city into the system
* Tourist:
  + When a tourist logs into the system, they should be able to view hotels and city information
* Student:
  + When a student logs into the system, he should be able to view, colleges, libraries and city information
* Businessman:
  + When a businessman logs into the system, they should be able to view hotels, industries and city information.

**3.1 Other requirements**

System:

* The system should provide similar information about popular Australian cities such as Sydney, Melbourne, Adelaide, Perth, Canberra, Hobart, Darwin and etc.
* It’s also required that the software team create a system which can be extended in the future to implement requirements such as:
  + Adding information on city bus services, metro rail, government offices, courier services, travel services, education services, health services, business services and etc.