Smart City Project: Data Model

# Smart city database relational model for sprint 1:

Users: (ID, Username, Password, email, first\_name, last\_name, is\_active, Last\_Login, Staff, is\_SuperUser,is\_staff,date\_joined )

UserGroups: (ID, User\_ID, group\_ID)

Groups: (ID, name)

WebUser: (ID, phonenumber, address, User\_ID)

Constraints:

ID, Username, Password and email fields cannot be null.

GroupName in the groups relation cannot be null.

Username and email but be unique for each created user.

All Primary keys are to be unique and are required.

The UserID in the WebUser and UserGroups relation is a foreign key depending on the User relation.

The GroupID in the UserGroups relation is a foreign key depending on the Groups relation.

The UserGroup relation depends on the Groups relation.

Assumptions:

The WebUser relation that links to the users table was designed as a new model and was created because the Users relation could not be altered when working with the Django framework. If the database was built up from using a custom model the PhoneNumber and Address fields would be included into the Users table.