# 1. Justification for selecting a specific architecture pattern for Smart City project

Architecture Pattern: Three Tier architecture pattern.

**Justification:**

The reasoning behind choosing the three-tier architecture pattern is because the website would have 3 components interacting; User, The UI and Database. By having a three-tier architecture, it allows the functionality and usage of the website to be even broader and more helpful for the user.

Due to the database interacting with the UI/ website and user interaction (three-tier website pattern), it allows user data to be saved, thus, when the same user is entering again, the user will then have a personalised view for their needs they have chosen. Compared to the two-tier pattern, where the database and UI only interact, it makes the website less personalized for the user.

In addition to this, it allows account registration, thus, allows the user to create a more personal feel to the website when using the website. E.g, a Businessman is able to save their favourite hotels, or, save specific contacts. Thus, showing the three-tier pattern allowing more (opportunity, freedom, branching out, personalized) for the user when using the website.

Having a two tier architecture pattern limits the websites capability, for example, it lessens the personal experience the user has as a two-tier does not allow users to personalise their information which interacts with the database.