**Architectural Design**

**High level components and their interaction**

*Database* :

the data layer is responsible for the data storage and retrieval.

It does not implement any application logic. This layer must guarantee ACID properties.

*Application* server :

this layer contains all the application logic of the system.

All the policies, the algorithms and the computation are performed

here. This layer offers a service-oriented interface.

*Android Mobile application* :

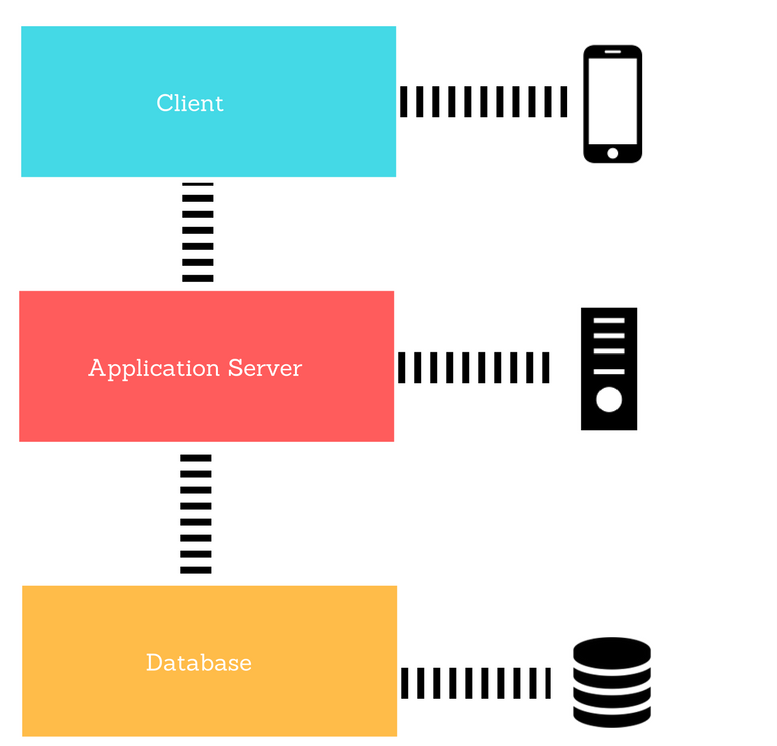
this layer consists in the mobile client. It’s both presentation layer and logic/client layer,

it communicates directly with the application server and it represents the user’s interface.

These high-level components are structured into three layers, shown in figure 2.1 .

This choice give us the possibility to compute all the business logic in the Application Server layer, to make more light and efficient to provide a comfortable user experience.

Furthermore this design allows to extend the system, inserting a Web Server layer to consult Travlendar in every device that has a generic browser.



*Figure 2.1: Layers of the system.*

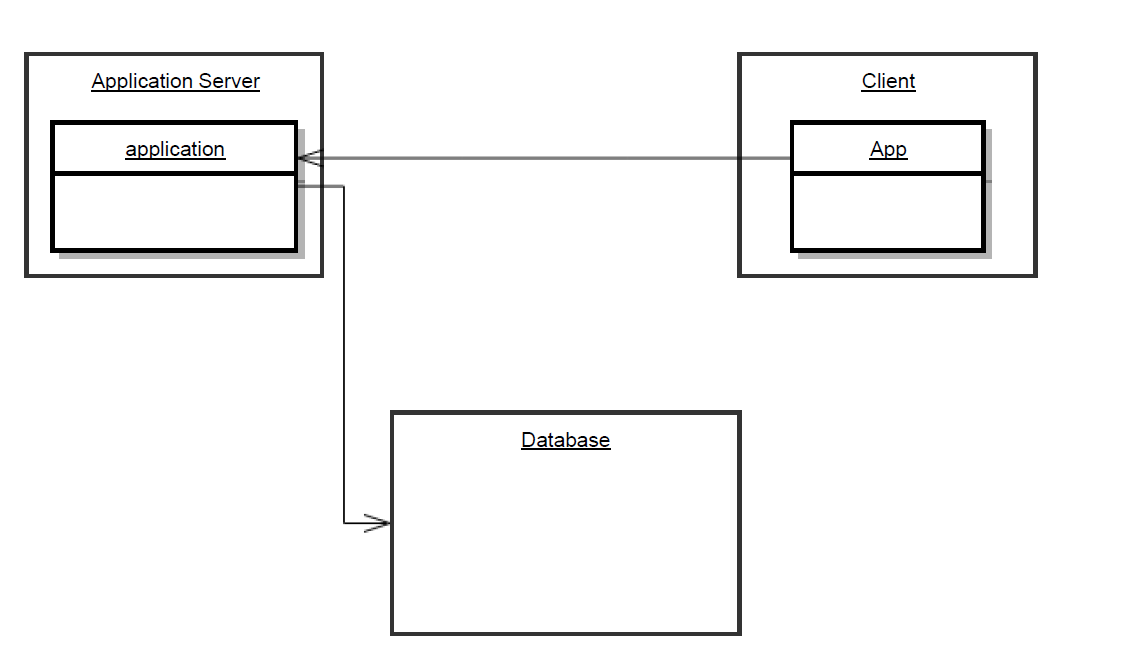


Figure 2.2: High level components of the system.

**Component View**