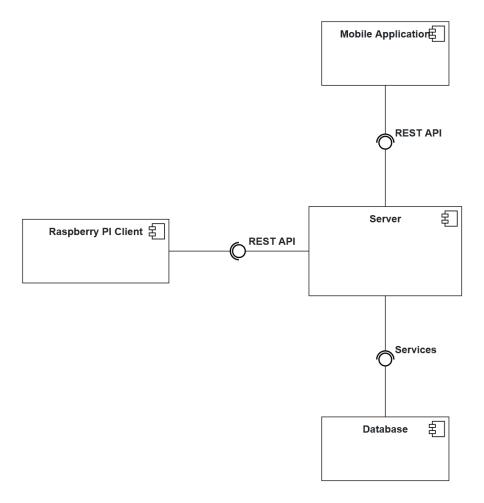
# **Smart Cart Project Software Description**



Draft: Component Diagram of the Smart Cart Project

### • Mobile Application:

- O Displays the list of the items placed in the cart.
- O Displays the total price of the items in the cart.
- At the bottom there is a button to refresh the list of the items, this may be automated with the use of the application coroutines.

## • Raspberry PI Client:

- o Read the hardware data to identify items placed in the cart.
- Send the items data to the server.

#### • Server:

- o Stores the data from the Raspberry PI Client in the database.
- Send the data to the Mobile Application automatically or on demand.

#### Database:

- Is located on the server side.
- Stores the actual list of the items in the cart. Allows less communication with the Raspberry PI Client.

- Possible Improvements:
  - Carts can have unique ID or QR code for the correct identification, so the user can correctly assign the cart in the mobile application.
  - o Introduce the mobile application payment process.
  - o Synchronize payment process in the market (cash or card) with the mobile application confirmation and the unique ID.