Obesity Visualizer

1. General Structure of Website

When the user opens the site for the first time, he encounters the home page. User can switch to other sites with the relevant buttons in the header and footer. Those buttons are:

- Home: Home page of the website shows information about the site and explains the purpose of the site.
- Visualize: Page where you can view obesity data with different visualization techniques.
- Calculate BMI: Page where you can calculate your BMI based on your height and weight.
- Personal: Page where the logged in user's data can be viewed, edited and exported.
- Login: Page where customer can log in with email and password.
- Register: Page where customer can register to website.
- Admin: Page where admin can access to admin dashboard to maintain data.

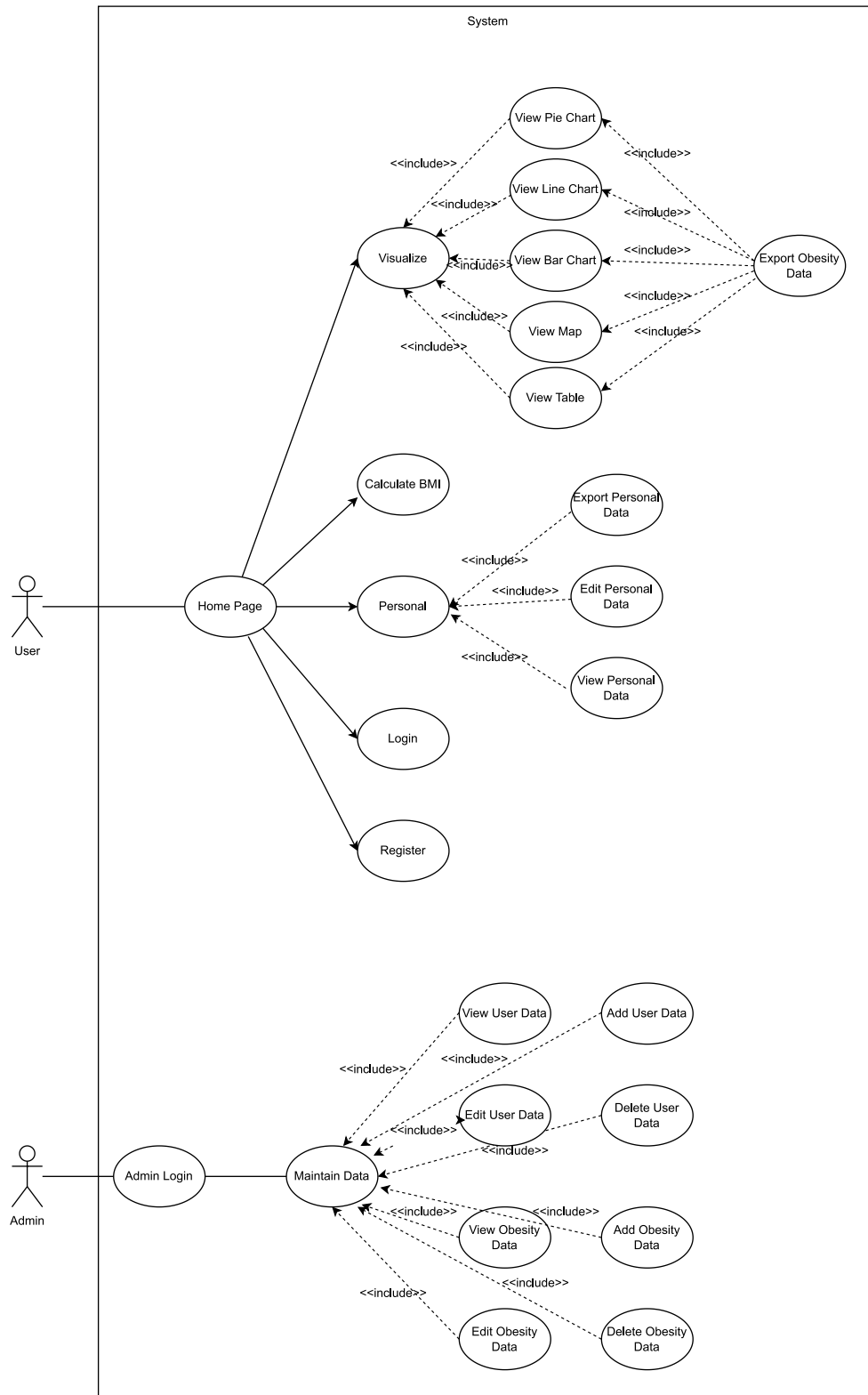System is based on services and MVC (Model–view–controller) design pattern.

In all pages, the user views the controller.

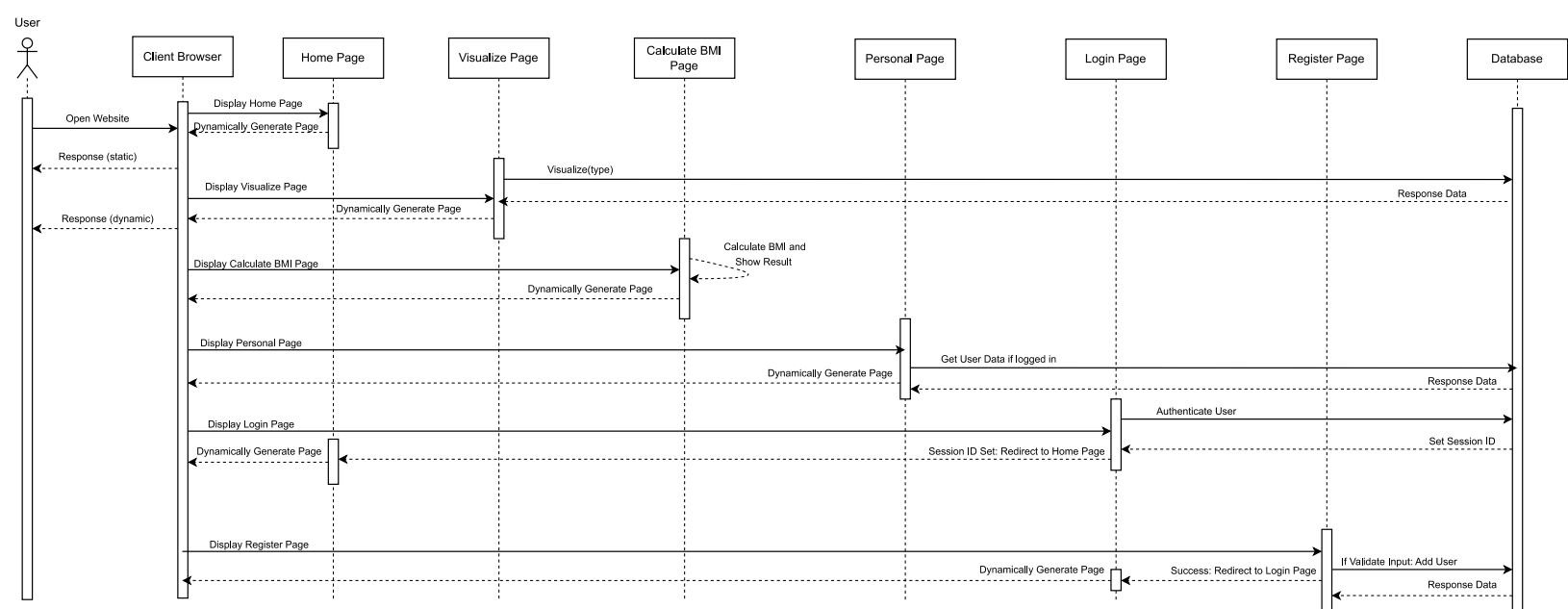The controller can update the static page according to the corresponding input.

The model requests data in accordance with the REST API structure, the relevant service retrieves the data from the database, organizes it according to the request, and sends response.

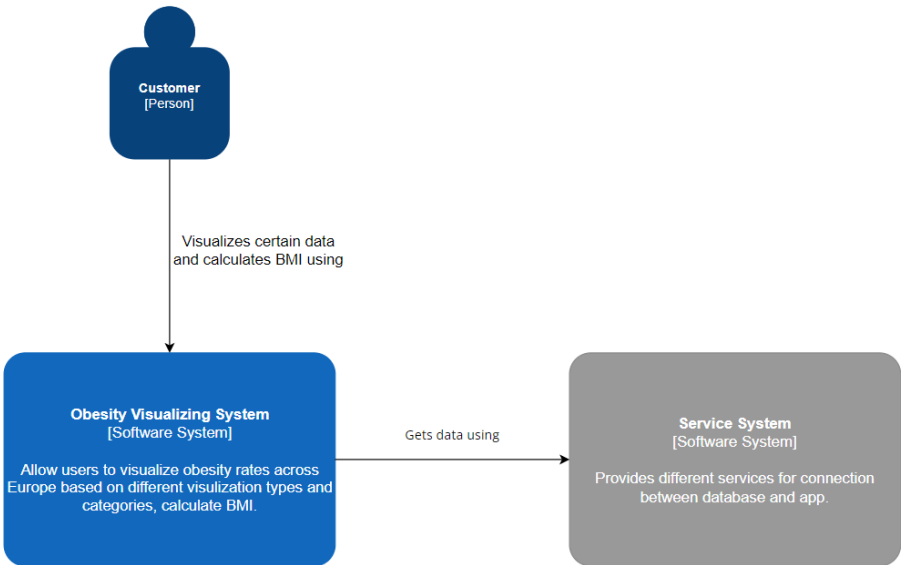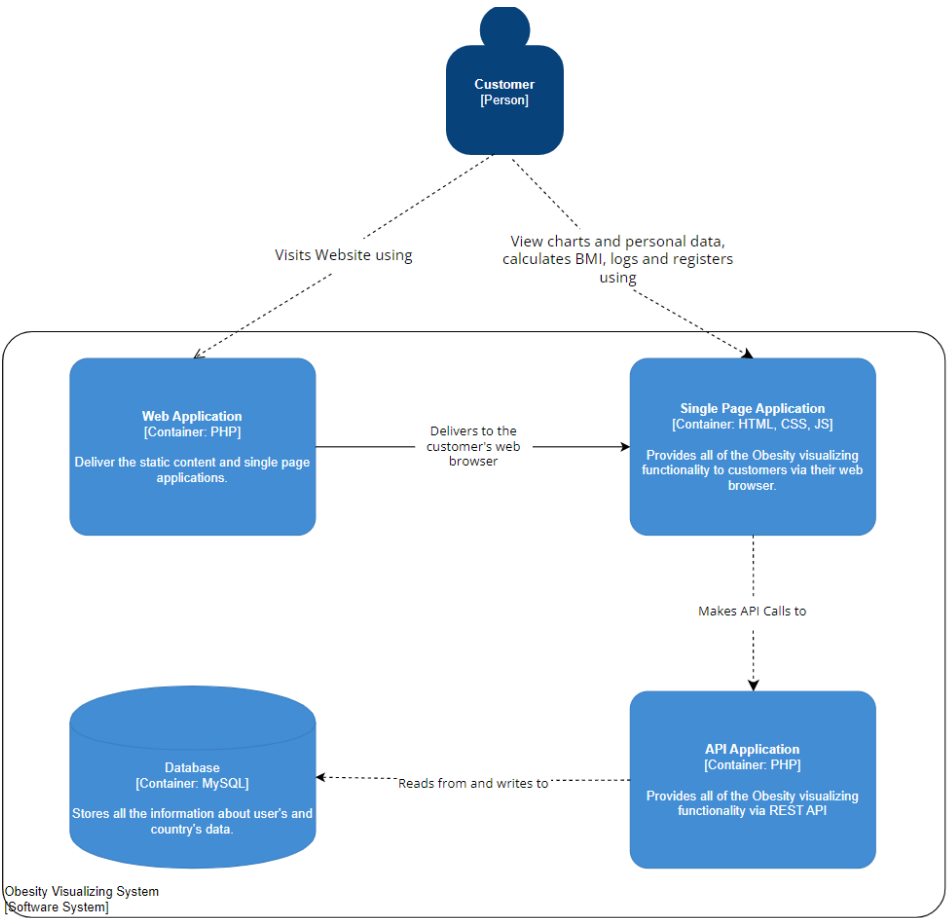# 2. Diagrams
2.1. Use Case Diagram

2.2. Sequence Diagram

3. C4 Model
3.1. Level 1: System Context diagram

3.2.   Level 2: Container diagram

Customer
[Person]

Web Application
[Container: PHP]

Deliver the static content and single page applications.

Single Page Application
[Container: HTML, CSS, JS]

Provides all of the Obesity visualizing functionality to customers via their web browser.

Database
[Container: MySQL]

Stores all the information about user's and country's data.

API Application
[Container: PHP]

Provides all of the Obesity visualizing functionality via REST API

Obesity Visualizing System
[Software System]

Visits Website using

View charts and personal data, calculates BMI, logs and registers using

Delivers to the customer's web browser

Makes API Calls to

Reads from and writes to

3.3. Level 3: Component diagram