ARCHITECTURAL DESIGN

First Choice Hospital

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Introduction

In this document we will describe the architectural design of our web application "*First Choice Hospital*", where we will discuss different architectural styles such as the conceptual, execution and implementation architecture.
In this web application react with typescript was used.

Conceptual Architecture

According to Conceptual Architecture at the beginning of the application creation, some key concepts should be made and explained in order to explain how the system will interact with users and other system processes.

Categorization:

Data	Function	Stakeholder	System	Abs. Concept
Route	Register	User	Hospital External Services	Interactive Map
Hospitals	User Management	Administrator	Openstreetmap Servers	Nearest Hospital
Hospital Data	Log-in / Log-out			Pleasant Hospital
Places	Download			
Users	Log in			
User Credentials	draw			
Places and Connections	Add and Remove places			
Data Base	Search			
	calculate			

Iteration:

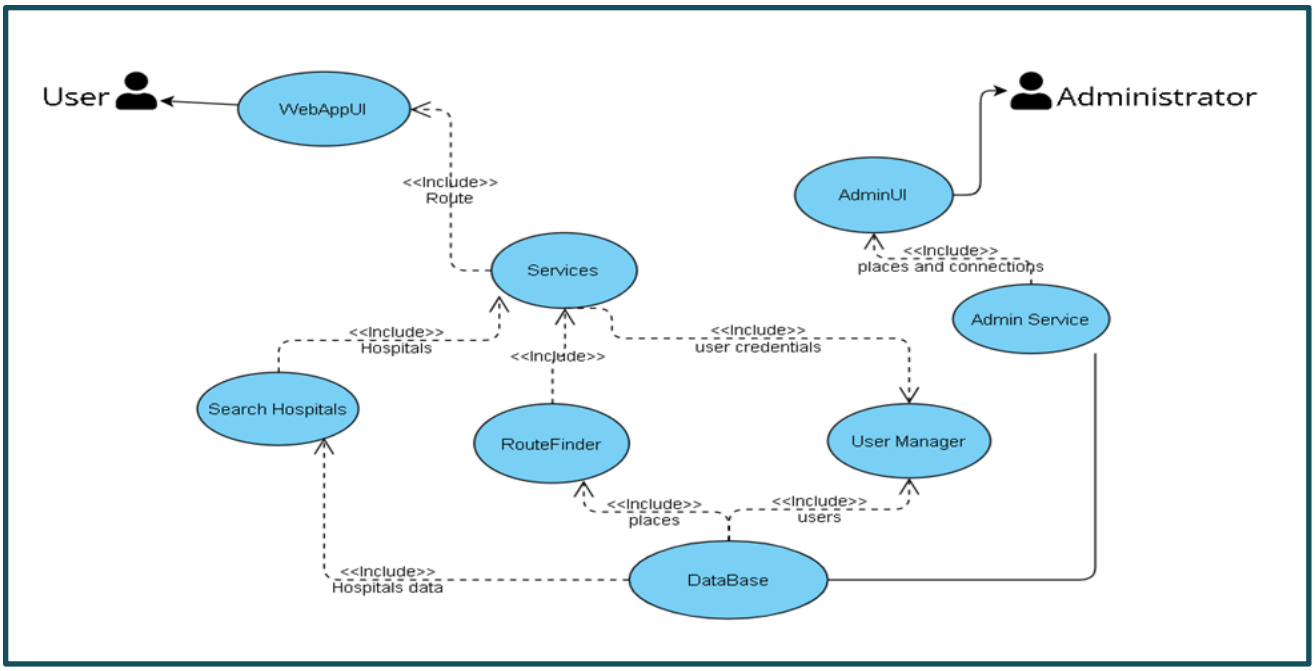

Figure1

Execution Architecture

As Execution Architecture focuses on runtime structure of the system then we have to explain what are the quality attributes and runtime attributes of our application, those are subsystems, hardware components, processes and threads.

Below we will show some execution architecture diagrams explained in detail and level of abstraction.

In the figure below which is figure 2 you can see the execution view of the components Client and Server which are connected with a synchronous call where all the data will be managed in the server.

Figure2

In the figure3 we will show the execution view of different processes, components and their connection. When users want to look at some hospitals data and they search by their name then the system will show the hospital data.

GUI is the application interface and it is user initiated when the user want something to search in the application then for example the user wants to see for some info of a hospital then the hospital data sends a request in the database to search for that specific hospital and then the Hospital Data responds with data of that hospital that is searched, the same procedure is for the route finder also.

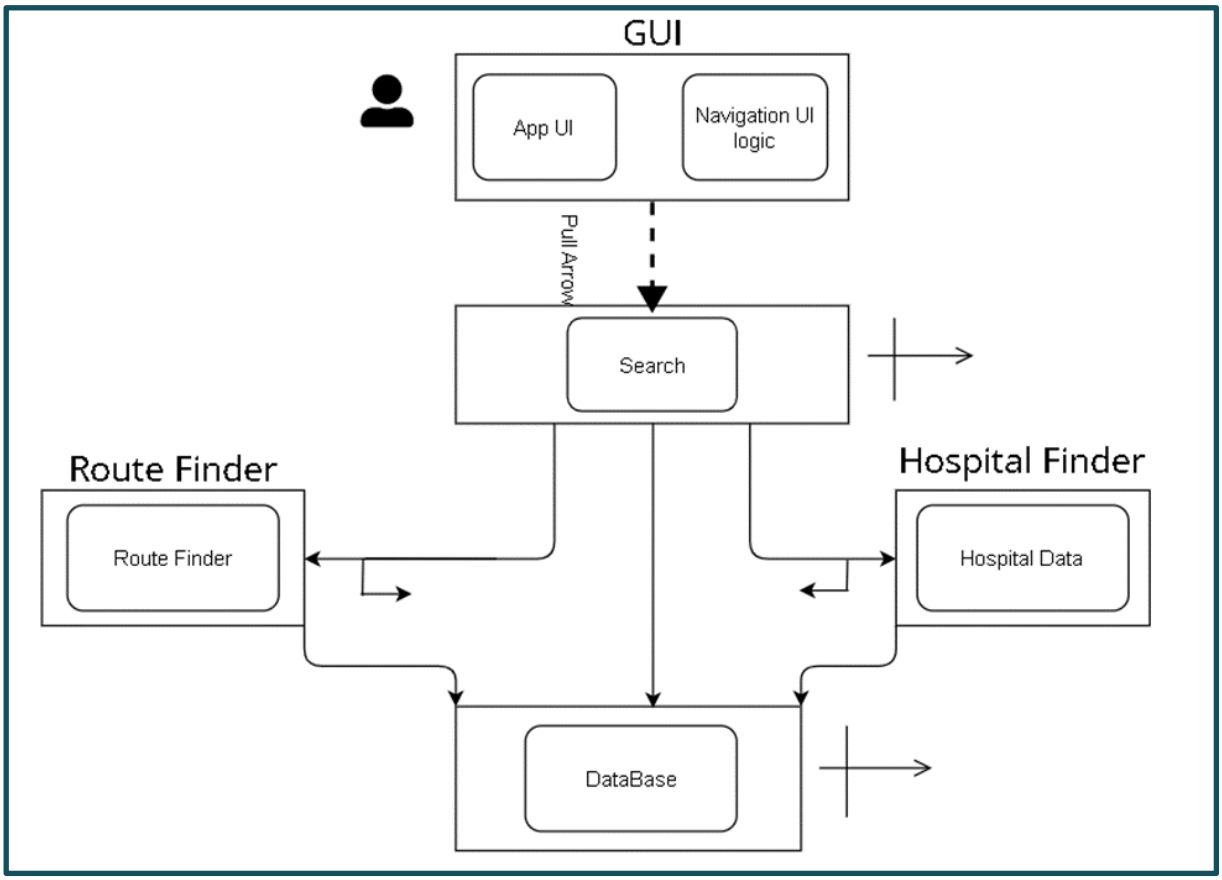

Figure3

Implementation Architecture

The implementation architecture focuses on how the system is built and which technologies are needed for the system implementation.

In the figure4 we will show how our application is built with the help of these technologies.

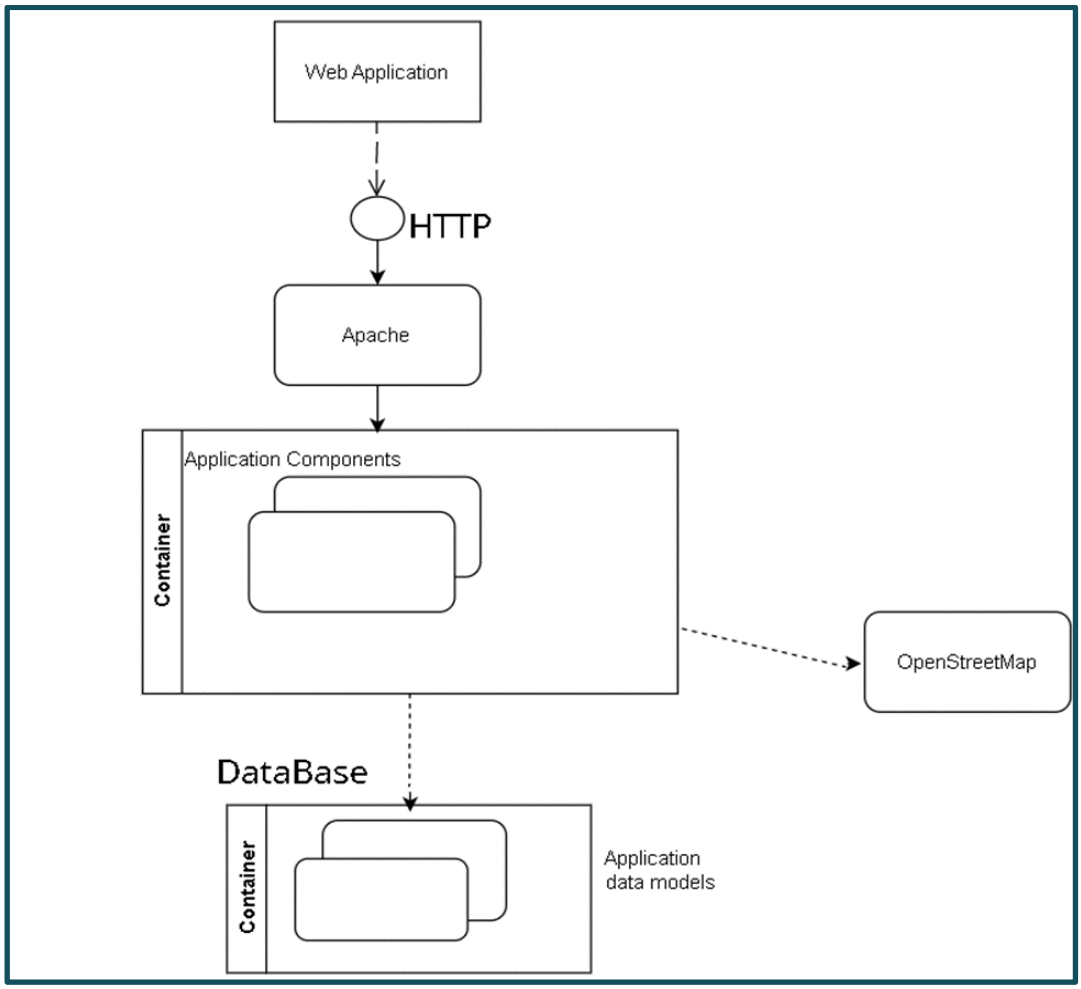

Figure4