

**COVID CARE**

**Software Design Document**

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# I. Overview

## 1. Code Packages/Namespaces



***Package descriptions & package class naming conventions***

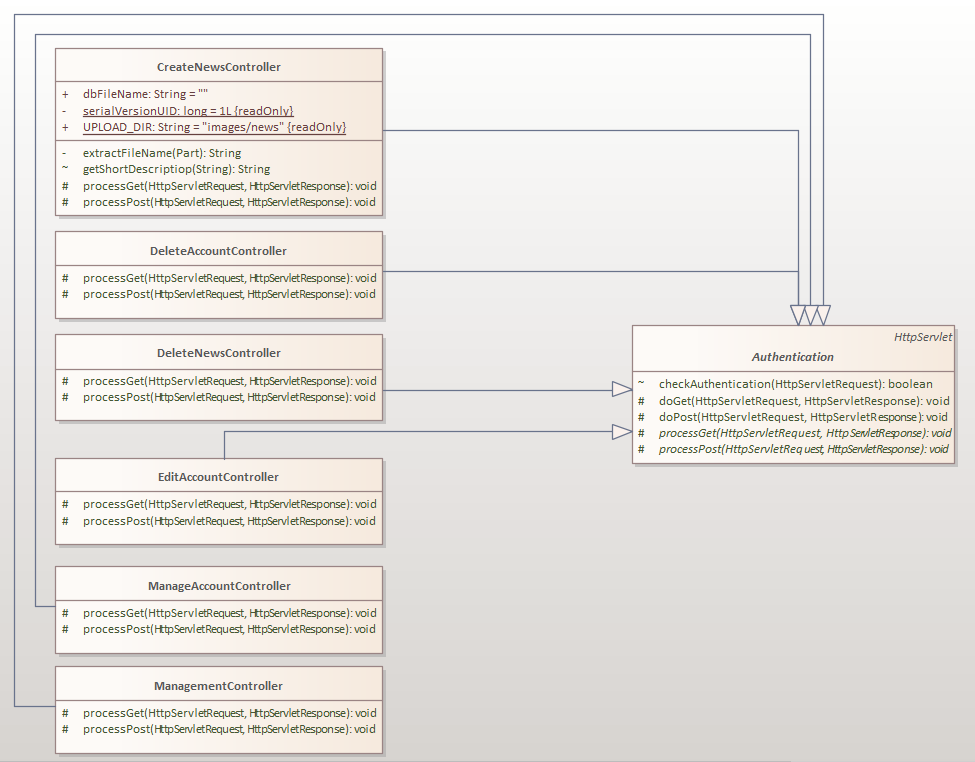
|  |  |  |
| --- | --- | --- |
| **No** | **Package** | **Description** |
| *01* | *Controller* | *Acting as an intermediary between the Model and the View, it is responsible for receiving requests from the client, then processing the request, loading the model and sending data through the corresponding view and then returning the results to the client.* |
| *02* | *Dal* | *A pattern in which objects are reserved for communication with the Data Layer.* |
| *03* | *Model* | *Are classes that contain object information (data), interact with database access.* |
| *04* | *WebSocket* | *Is a protocol that supports two-way communication between the client and the server to create a strong data exchange connection. WebSocket is often used in real-time requirements such as chat applications or graphs* |
| *05* | *utils* | *The package contains the definition of some useful classes that provide a lot of functionality. The package mainly contains collection classes useful for working with groups of objects. This package also contains definitions of classes that provide date and time utilities and many more* |
| *06* | *view* | *Is the place to receive data from the model, database and arrange them correctly thanks to the request from the controller and transmit it to the client.* |

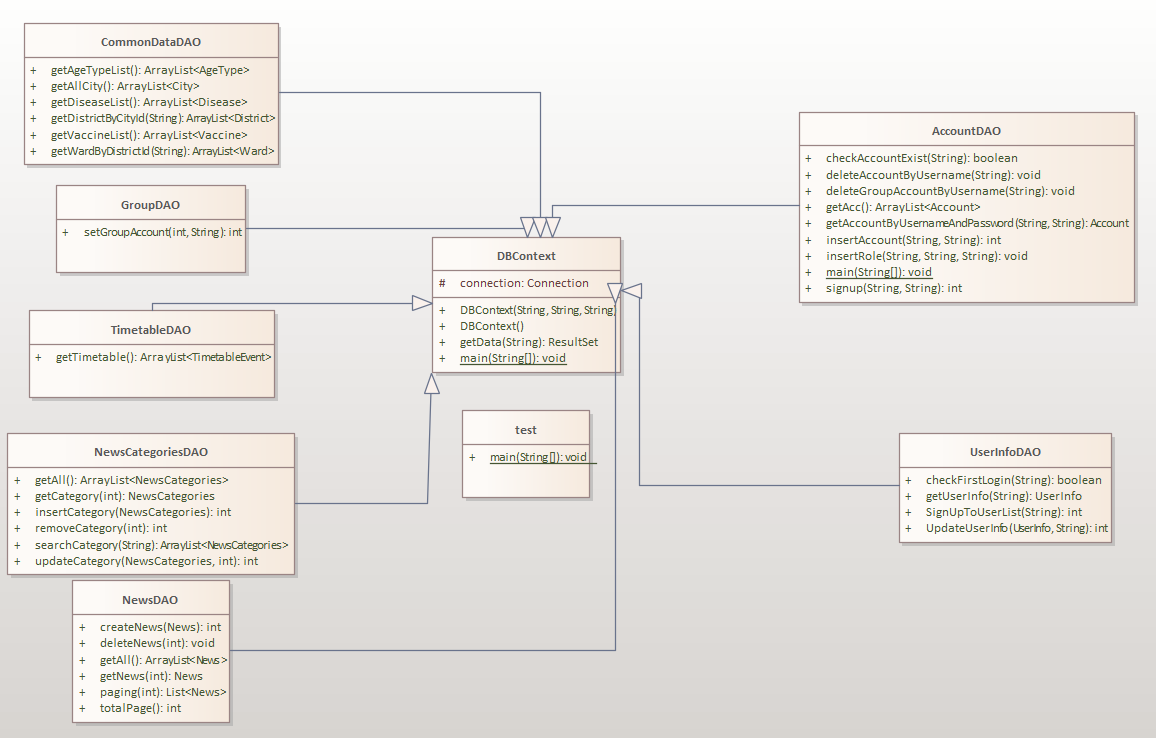
# II. Code Designs

## 1. <Feature/Function Name1>

*[Provide the detailed design for the function <Feature/Function Name1>. It include Class Diagram, Class Specifications, and Sequence Diagram(s)]*

### Class Diagram





### b. Class Specifications

*[Provide the description for each class and the methods in each class, following the table format as below]*

#### XYZ Class

*[Provide the detailed description for the class methods]*

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *<method name>* | *<Description of the method, including the inputs, outputs & internal method processing>* |
|  |  |  |

#### ABC Class

***Class Methods***

*[Provide the detailed description for the class methods]*

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *<method name>* | *<Description of the method, including the inputs, outputs & internal method processing>* |
|  |  |  |

### c. Sequence Diagram(s)

*[Provide the sequence diagram(s) for the feature, see the sample below]*



### d. Database queries

*[Provide the detailed SQL (select, insert, update...) which are used in implementing the function/screen]*

## 2. <Feature/Function Name2>

…

# III. Database Design

## 1. Database Schema

*[Provide the tables relationship like example below – following MySQL database naming convention]*



## 2. Table Description

|  |  |  |
| --- | --- | --- |
| **No** | **Table** | **Description** |
| *01* | *<Table name>* | *<Description of the table>*  *- Primary keys: <<list of primary key fields>>*  *- Foreign keys: <<list of foreign key fields>>* |
| *02* |  |  |