Service Layer Architecture

<u>UserModel.php</u>

```
<?php
class UserModel {
 function insertUser($name) {
    include 'Credentials.php';
    //Open Connection and select database
    $conn = new mysqli($host, $user, $passwd, $database) or die($conn->connect_error);
    $query = "INSERT INTO users (name) VALUES ('$name')";
    $result = $conn->query($query) or die($conn->error);
    $conn->close();
    return $result; //boolean
  }
 function getUserList() {
    require_once '../Entity/UserEntity.php';
    include 'Credentials.php';
    //Open Connection and select database
    $conn = new mysqli($host, $user, $passwd, $database) or die($conn->connect_error);
    $query = 'SELECT * FROM users ORDER BY id';
    $result = $conn->query($query) or die($conn->error);
    $userArray = array();
```

```
//Get data from database
  while ($row = mysqli_fetch_assoc($result)) {
    $id = $row['id'];
    $name = $row['name'];
    $user = new UserEntity($id, $name);
    array_push($userArray, $user);
  }
  $conn->close();
  return $userArray;
}
function getUserById($id) {
  require_once '../Entity/UserEntity.php';
  include 'Credentials.php';
  //Open Connection and select database
  $conn = new mysqli($host, $user, $passwd, $database) or die($conn->connect_error);
  $query = "SELECT * FROM users Where id='$id'";
  $result = $conn->query($query) or die($conn->error);
  $userArray = array();
  //Get data from database
  while ($row = mysqli_fetch_assoc($result)) {
    $id = $row['id'];
```

```
$name = $row['name'];
    $user = new UserEntity($id, $name);
    array_push($userArray, $user);
  }
  $conn->close();
  return $userArray;
}
function getUserByName($name) {
  require once '../Entity/UserEntity.php';
  include 'Credentials.php';
  //Open Connection and select database
  $conn = new mysqli($host, $user, $passwd, $database) or die($conn->connect_error);
  $query = "SELECT * FROM users Where name='$name'";
  $result = $conn->query($query) or die($conn->error);
  $userArray = array();
  //Get data from database
  while ($row = mysqli_fetch_assoc($result)) {
    $id = $row['id'];
    $name = $row['name'];
    $user = new UserEntity($id, $name);
    array push($userArray, $user);
```

```
}
$conn->close();
return $userArray;
}
```

UserService.php

```
<?php
require_once '../Model/UserModel.php';
class UserService {
  public static function getUserById($id) {
       $userModel = new UserModel();
    $user = $userModel->getUserById($id);
    return array_map("json_encode", $user);
 }
  public static function getUserByName($name) {
    $userModel = new UserModel();
    $user = $userModel->getUserByName($name);
    return array map("json encode", $user);
 }
  public static function getUserList() {
       $userModel = new UserModel();
```

```
$users = $userModel->getUserList();
return array_map("json_encode", $users);
}
```

Index.php

```
    require_once '../Service/UserService.php';

if(isset($_GET['id'])){
        $user = UserService::getUserById($_GET['id']);
        var_dump($user);
} else if(isset($_GET['name'])) {
        $user = UserService::getUserByName($_GET['name']);
        var_dump($user);
} else {
        $userArray = UserService::getUserList();
        var_dump($userArray);
}
```