

# Understanding the MVC example: Example-MVC- ADVANCED

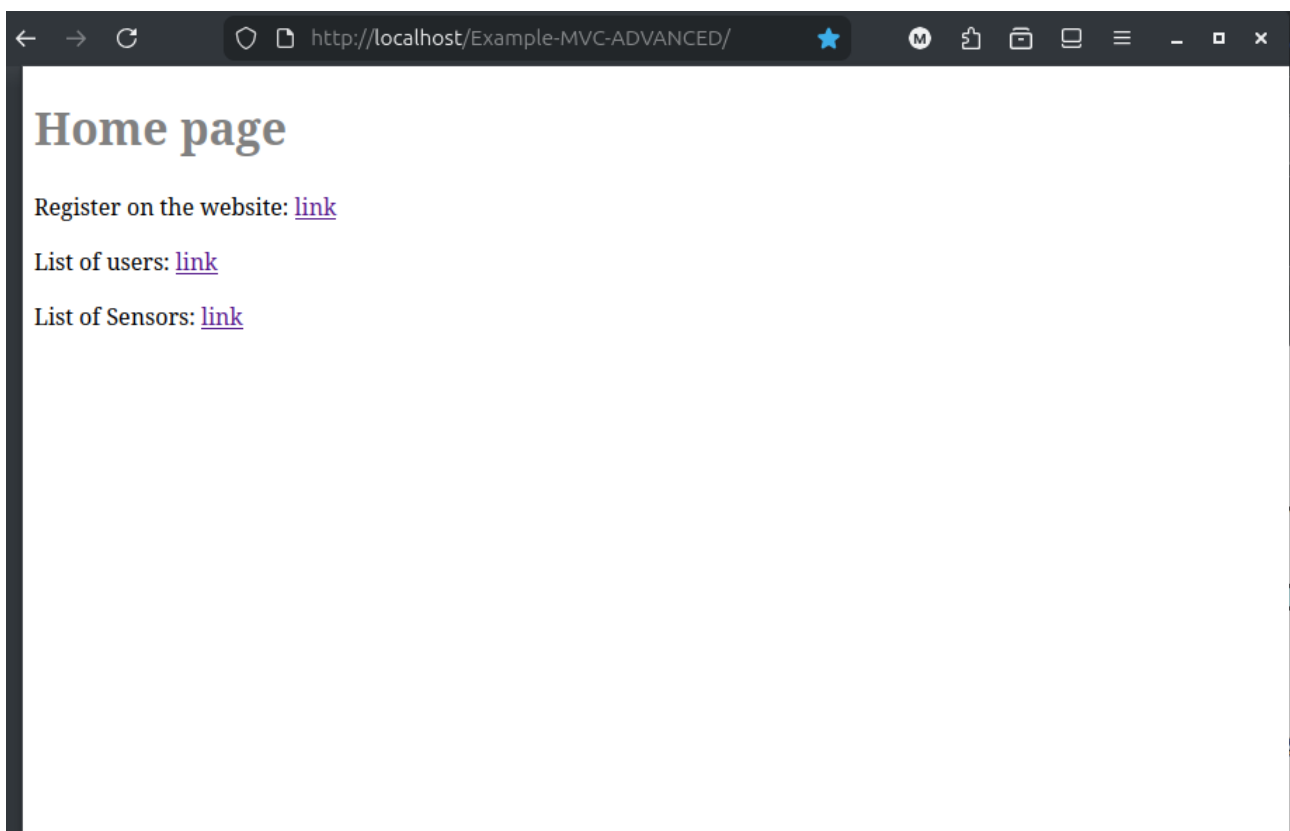
## Preliminary Setup

I have completed the preliminary setup phase with creating database called mvc, and establishing connection with database.

## Exploring the Code – Questions

### 1. Test the website using the url adapted to your environment example

I am using apache server, mysql, php etc. as disturbed, and initializing MVC exercise from /var/www/html directory. So, port 80 is used by apache as default.



### 3. The content of the displayed page depends on two important parameters: target and function. What are the default values of these parameters (without clicking on the links on the home page)?

Before clicking on any link, we have not specified any parameters. So in index.php, if there is no target or target is empty; \$url is specified as 'users' by default. After including 'users' in the controllers, it says if function is empty or not defined in url, take \$view as 'home' and at the bottom of the page, 'users' controller says to include header.php view, \$view as 'home' which includes home.php in views and a footer.php for footer.

**4. Which files are used to display the first page (containing the html code used to code the visuals on this page)?**

Homepage includes views/header.php, views/home.php, views/footer.php.

**5. In which folder is the file that calls these visual pages located?**

This file is 'users.php' which located in controller.

**6. Does the display of the homepage involve files from the folder?**

No, It doesn't make use of any model folder.

**7. From the home page, click on the link that displays the list of users. From the URL on the browser, indicate the value of the target and function variables.**

index.php?target=users&function=list, target took the 'users' value and functions took the 'list' value.

**8. Which view files are used to display the resulting table of users?**

Homepage includes views/header.php, views/list.php, and views/footer.php.

**9. Find the function that retrieves the list of users and give its name.**

In controllers/users.php, \$function takes value 'list' and after switch statement is executed, switch statements gets in to the case: 'list'. Then, \$view takes 'list' value, and \$list gets the returned array from getAllUsers(PDO \$db) function that already included into controllers/users.php from models/requests.users.php. Finally, table is created from views/list.php which uses this \$list.

**10. Identify the SQL query in the code for this function. Describe this query.**

\$query = 'SELECT \* FROM users';

This query pulls all the records from users table.

**11. In which folder is this function to be found?**

This function is located in the models/requests.users.php.

**12. From which folder do you call this function?**

This function inside the models/requests.users.php called from controller/users.php.

**13. To retrieve the list of users from the database, you first need to connect to the database. In this phase we specify the url to the server that contains the database, the database name, and the connection parameters: login and password. Find the part of the code that provides this connection before executing the request.**

This part is located in models/connection.php. I have changed host as localhost which as default uses port 3306. 'mvc' is the database name, 'newuser' is username, and 'password' as password.

**14. Propose a summary diagram illustrating the steps involved in displaying the list of users, specifying the order of the files involved and highlighting the MVC (Model-View-Controller) design pattern.**

