

# WP project report

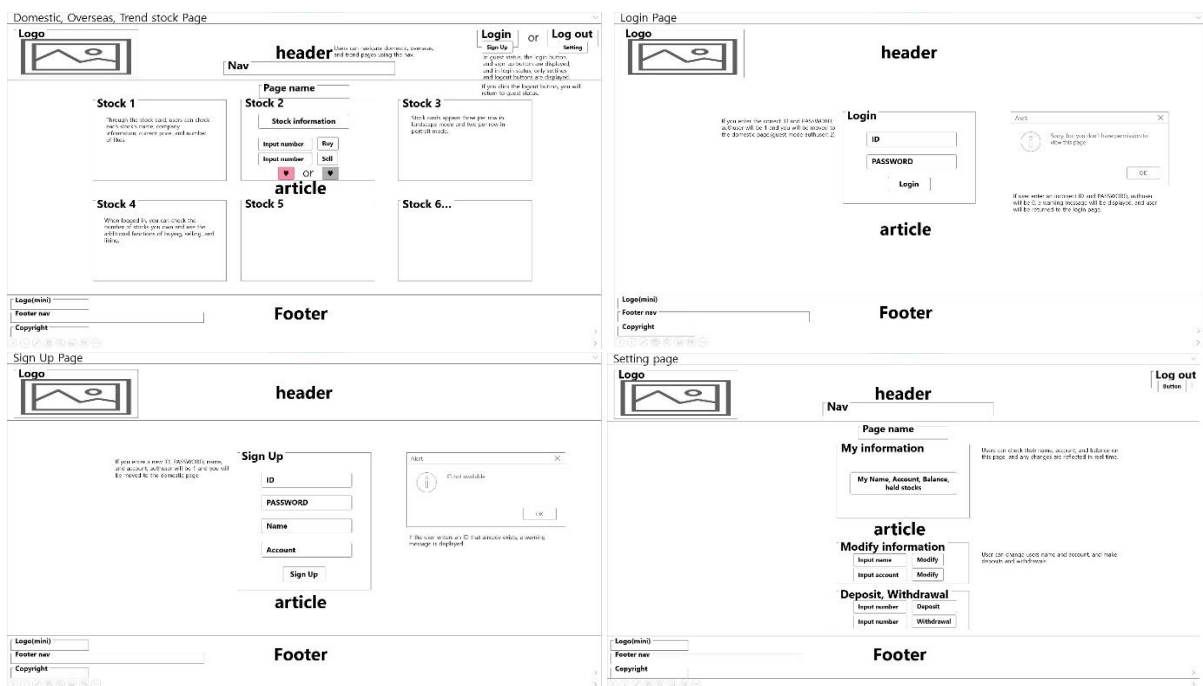
21011798 허승우 HEO SEUNG WOO

## a) The goal/objective and summary of the project

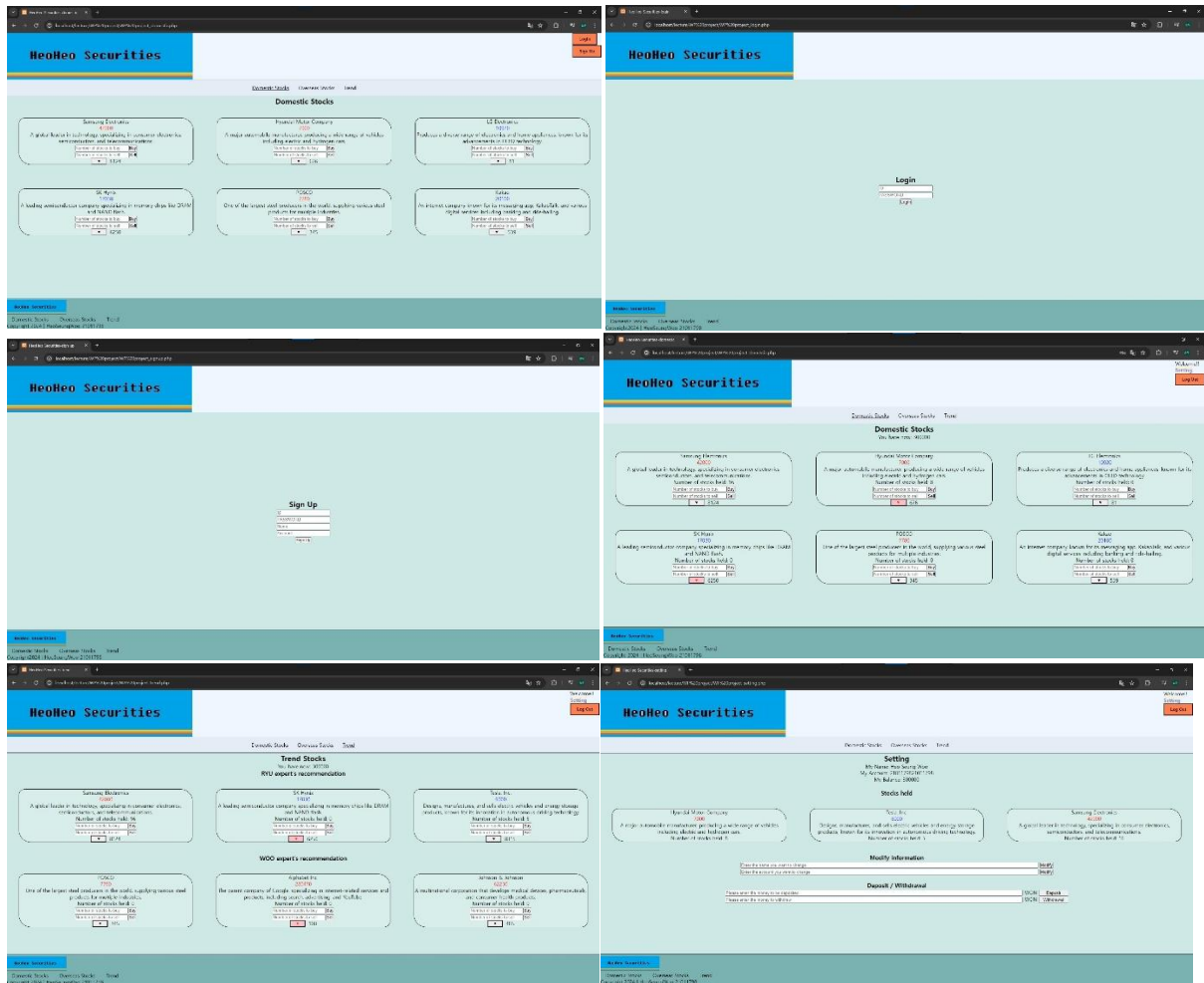
This project aims to develop a web platform where users can view information, buy and sell multiple stocks in a database. Users can view stock prices, check company information, receive stocks recommended by experts, and leave a like mark. The platform is developed using HTML/CSS for design and UI, PHP for user authentication and database management, and JavaScript for interaction.

## b) Wireframe

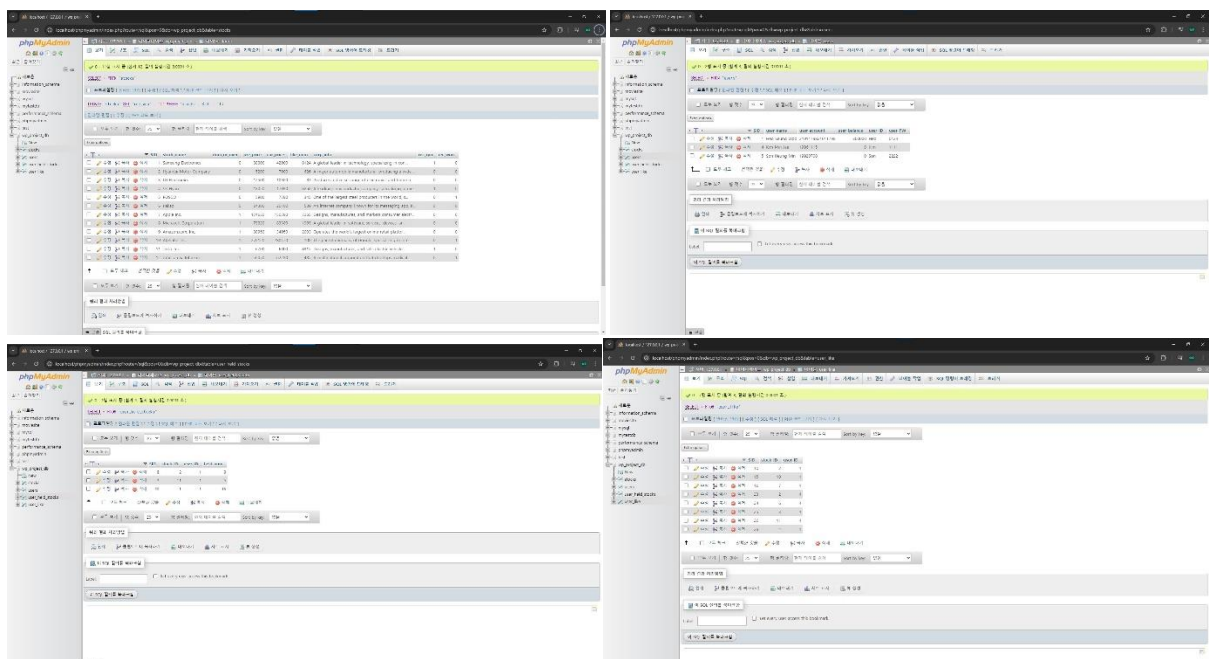
Domestic, overseas, trend stocks page / Log in page / Sign up page / User setting page



## c-1) Page screenshot



## c-2) Database screenshot



#### d) contribution

Page color combination reference

- <https://colorhunt.co/palette/cde8e5eef7ff7ab2b24d869c>

#### e) major code description

*#login page*

If there is a login post, check whether the corresponding ID and PW exist in the users table.

```
Line12) if ($_SERVER["REQUEST_METHOD"] == "POST" and isset($_POST["login"]))
Line17) $query = "SELECT * FROM users WHERE user_ID = \"$_POST[user_ID]\"";
Line22) if ($user && $user_PW === $user["user_PW"])
```

*#domestic, overseas, trend page*

The user mode is distinguished by the variable authuser (1: logged in state, 0: guest state)

```
Line13) if(!isset($_SESSION["authuser"])){
    $_SESSION["authuser"] = 2;
}elseif($_SESSION["authuser"] == 1){
    $user_SID = $_SESSION["user_SID"];
    $query = "SELECT * FROM users WHERE SID = $user_SID";
    $result = mysqli_query($db, $query) or die(mysqli_error($db));
    $user = $result->fetch_assoc();
    $_SESSION["user_balance"] = $user["user_balance"];
}
if (isset($_POST["logout"])) {
    $_SESSION["authuser"] = 2;
}
```

Function to update if there is a change in the number of stocks held and the status of likes

```
Line40) function updateHeldNum(stockID, newHeldNum)
Line50) function updateLike(stockID, isLike, newLikeNum)
```

Depending on whether log in, the Login, Sign Up, Logout, and Settings buttons appear.

```
Line93) if($_SESSION["authuser"] == 1){
    echo "<script>document.getElementById(\"before_login\").style.display =
\"none\";";
    echo "document.getElementById(\"after_login\").style.display =
\"block\";</script>";
}else{
    echo "<script>document.getElementById(\"before_login\").style.display =
\"block\";";
    echo "document.getElementById(\"after_login\").style.display =
\"none\";</script>";
}
```

The color of the current price changes depending on the price change.

```
Line133) echo "<p id=\"stock_current_price\"";
if($row["cur_price"] > $row["pre_price"]){
    echo "style=\"color: red\"";
} elseif($row["cur_price"] < $row["pre_price"]){
    echo "style=\"color: blue\"";
} else{
    echo "style=\"color: black\"";
}
echo ">" . $row["cur_price"] . "</p>";
```

To change the data of each stock, the SID of the stock is sent to hidden.

```
Line159) echo "<input type=\"hidden\" name=\"stock_ID\" value=\"\" .
$row["SID"] . "\">";
```

When purchasing, search the user\_held\_stocks table to see if there is a row where stock\_ID and user\_ID match. If not, add it.

```
Line208) $query_stock_held = "SELECT * FROM user_held_stocks WHERE stock_Id =
$stock_ID and user_ID = $user_SID";
Line 214) $query_insert_new_held = "INSERT INTO user_held_stocks (stock_Id,
user_ID, held_num) VALUES ($stock_ID, $user_SID, 0)";
```

When selling stocks, if the number of holdings becomes 0, they are removed from the user\_held\_stocks table.

```
Line255) $query_delete_held = "DELETE FROM user_held_stocks WHERE stock_ID =
$stock_ID AND user_ID = $user_SID";
```

When the Like button is pressed, the user\_like table is searched to see if there is a row where stock\_ID and user\_ID match.

```
Line277) $query_user_like = "SELECT * FROM user_like WHERE stock_Id =
$stock_ID and user_ID = $user_SID";
```

*#Sign up page*

If there is no user with the same ID, a new user is registered..

```
Line25) $query_insert_new_user = "INSERT INTO users (user_name, user_account,
user_ID, user_PW) VALUES (\"$new_user_name\", \"$new_user_account\",
\"$new_user_ID\", \"$new_user_PW\")";
```

*#Setting page*

Go through the stocks user held and refer to the stocks in the stocks table.

```
Line67) $query_stock_bySID = "SELECT * FROM stocks WHERE SID = " .
$row["stock_ID"];
```

#### **f) Conclusions and comments**

Before I started this semester, I had no knowledge or base on web programming, and the only programming languages I knew were C and Python. So, when I started the project, I was at a loss, but as I made a plan according to the guidelines and thought out each element, memories of past class practices and assignments came to mind, and I was able to apply them and implement them one by one.

And the most difficult part of this project was modifying data such as purchases and sales and updating it in real time on the web page. In the process, I felt that I was one step closer to understanding the flow of web programming as I was able to design and implement the flow of passing the element that separates the data as hidden, creating a new query, and passing it to the function.

In addition, I was able to gain know-how by adding aspects such as guest mode and restrictions on input data!

I had to reorganize the database structure to add a sign up function, and in the process, I was able to understand a little about the organic interaction between each table. I would like to try implementing a separate expert database in the future.

#### **g) GitHub repository**

<https://github.com/bugogi/2024-2-1-WP-project---Stock-Investment-Support-Platform>