

Internet Systems Programming Progress Report

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In this project we sat down to decide what we want to create as a team we concluded on working on a 4 tier web app generator, that lets its user to choose his/her own theme and apply it on a full, but flexible, technology stack in just a few minutes, greatly improving development time from visual design to application deployment. We used our knowledge of CSS, HTML, CSV, PHP, JavaScript, and SQL.

We used GitHub to share our files together, that way when one person was done with his section and pasted, we had another person in charge of compiling it.

Starting from our html we created a table in the same format of our Project assignment 2 where we did a kind of Website generator. We let our user see the elements which were drag and drop and which were not. Nicholas Riechlin took care of the JavaScript and PHP forms in this project, each function was shown in the table displayed in our Webpage, each with a definition of how to use them. It was implemented using Visual Studio code, he also implemented the use of drag and drop by creating a separate drag and drop java script file that made our webpage more user-friendly, giving our users more leeway in creating their web

application. The PHP file was used to contact the database he created.

```
18
19     $db = mysqli_connect('localhost:3306', 'root', '', "$dbName");
20
21     if(isset($_POST['column1']))
22     {
23         $column1 = $_POST['column1'];
24     }
25     if(isset($_POST['column2']))
26     {
27         $column2 = $_POST['column2'];
28     }
29     $action = $_POST['action'];
30
31     if ($action == "display")
32     {
33         $query = "";
34     }
35     else if ($action == "add")
36     {
37         $query = "insert into data values($column1, $column2)";
38     }
39     else if ($action == "update")
40     {
41         $query = "update data set column_2 = $column2 where column_1 = $column1";
42     }
43     else if ($action == "delete")
44     {
45         $query = "delete from data where column_1 = $column1";
46     }
47
```

This is a section of his code that interacts with the database using if, else and else if statements to insert, extract, output and update the database. Inioluwa Adedeji, oversaw HTML creation, creating the tables and linking it to each JavaScript, the web frontier design was also done by him, and he created the help webpage that gives assistance to the users in case they are having troubles with it. Below is a part of the HTML code created.

```

C:\Users\> inide > OneDrive > Documents > Fall 2022 > Internet Systems programming > Project > FourTierWebDesigner.html > ...
1 |!DOCTYPE html|
2 |<html>
3 |
4 |   <head>
5 |     <title>Term Project: 4-Tier Web Page Generator</title>
6 |     <link rel="stylesheet" type="text/css" href="styles.css">
7 |   </head>
8 |   <script src="function.js"></script>
9 |   <body>
10 |     <h1>4-Tier Web App Generator</h1>
11 |     <h2>Add elements to your page by clicking the buttons in the table below</h2>
12 |     <table border="2">
13 |       <tr>
14 |         <th>Element</th>
15 |         <th>Element Description</th>
16 |         <th>Drag and Drop</th>
17 |         <th>Implement</th>
18 |       </tr>
19 |       <tr>
20 |         <td class="specialRightBorder">Background to Page</td>
21 |         <td class="specialRightBorder">Changes the background color of the page based on input.</td>
22 |         <td class="specialRightBorder">no</td>
23 |         <td class="specialBottomBorder"><button onclick="addBackground()">Add Background Color</button></td>
24 |       </tr>
25 |       <tr>
26 |         <td class="specialRightBorder">Title</td>
27 |         <td class="specialRightBorder">Adds a title with input text.</td>
28 |         <td class="specialRightBorder">yes</td>
29 |         <td class="specialBottomBorder"><button onclick="addTitle()">Add Title To Page</button></td>
30 |       </tr>
31 |       <tr>
32 |         <td class="specialRightBorder">Text Box</td>

```

Amid oversaw parsing the file with user data, created by our website. He created the file that collated all the user data that was inputted by the user and stored it in a database.

```

data - Notepad
File Edit View

USE isp;

DROP TABLE IF EXISTS data;

CREATE TABLE data (
  column_1 INT(9) NOT NULL AUTO_INCREMENT,
  column_2 INT(9),
  Primary KEY (column_1)
);

insert into data VALUES
(1, 1);
(2, 2);
(3, 3);
(4, 4);

```

This is the code he used to insert the variables or data like I mentioned earlier.

Problems we all faced in this code, was first working as a team to put our works individually together. As regards the code, IniOluwa at first struggled with the connection of all the files in the html to make it work referencing, when necessary, like the JavaScript, help page, etc. Nick's

issue was when he had to relay data from JavaScript to PHP and vice versa. And Amid stumbled when he had to do csv parsing and when he sent parsed data to SQL server.