Online Technical Report

**List of Members and Tasks:**

- Nick Reichlin: design of web page including HTML, css, and JavaScript front-end and PHP and SQL back-end. Wrote and turned in progress report and online technical report. Pages written and developed: prj.html, Helppage.html, prj.js, prj.php, prjdb.sql, style.css, and dragDropFunction.js.
- Amid Babaev: design of python to extract data from csv file to be imported to the database. Plugged in functionality into studio for users to utilize in their designed pages.
- Inioluwa Adedeji: helped with development of front-end including HTML and JavaScript. Worked on Helppage.html, prj.html, and prj.js. Wrote the final report and helped with preparing for presentation.

**Architecture:**

The application consists of 2 HTML files, two JavaScript files one python file, a css file. and one PHP file. The HTML file prj.html is the studio which helps users chose the elements they want in their page. The other HTML file is the help page (Helppage.html) which answers possibly questions users might have and tells users how to set of the database as well as the input csv file format. One of the JavaScript files designs the drag and drop function present in the user page test window. The other JavaScript file (prj.js) adds elements to the test window and communicates with the PHP file. The python file is used to parse through an inputted csv file and transfer that data to a database table. The PHP file is used to communicate with the MySQL database and display results from the data table. The css file (style.css) is used to configure the style of the studio home page.

**Business Logic:**

The user creates a web page front-end of their choice. Once the user requests information or wants to update the database, the PHP file is called. This file runs any of the queries needed to satisfy the user's request. These queries will extract and/or enter and alter data in the data table. Any extracted values will be sent back to the user view the PHP file and displayed.

**Database design:**

The database used was MySQL which is included in WAMP. The database consists of as many tables as the user desires which follow the correct format (two columns containing integers). The data table suggested is written in the prjdb.sql file.

Here is the query to set up the table:

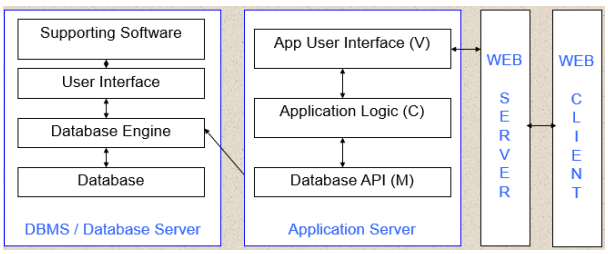
```
USE isp;

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);
```

This database is accessible by a PHP file and follows a similar format below:



**Special Features:**

- Ability to view elements add to page and newly generated page.
- Ability to drag and drop elements in test window.
- Features allowing users to add a csv file to be parsed and the data sent to a data table in a MySQL database.
- The abilities to change the color of text and background of page as well as add images and text to the page.