SHSM WriteUp

**Components**

1. Login Page
2. Register Page
3. Navbar
4. Table

The program we are making is too create a program that centralizes and allows the user to manipulate all the data about SHSM students. There are two programs in SHSM for port credit secondary school, there is the Justice program and the Manufacturing Program. To differentiate these two there will be a user account system. There will be a register page and a login page, and three different levels of permissions. There will be administrator who will have access to all students in the program, there will be a Justice Teacher option and a Manufacturing Teacher option where that person can access and manipulate the data for only their respective programs. This program will be a website made in PHP and using MySQL.

Username

Password

LOGIN

**REGISTER**

When the Register link is clicked then it will take the user to the register page. When the user puts the correct login information then it will send the user to the landing page.

Username

Password

REGISTER

Confirm Password

Justice

Manufacturing

Administrator

In this register page the user can input their information and will have 3 options they can choose to be a Justice teacher, a Manufacturing Teacher or an Administrator with differing permissions. When Register is clicked it will create a new user and send them back to the Login Page.

New Year

Remove Column

Add Column

Update

Remove

Add

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Student Number | Grade | Program | CPR  Certification  (Grade 11) | ICS4U  (Grade 12) | TMJ-3U  (Grade 11) | Has Required Courses | Has Required certifications |
| Tarj Tandel | 658125 | 11 | Manufacturing |  |  |  |  |  |
| Daniel Leung | 542241 | 11 | Manufacturing |  |  |  |  |  |

The main page will be a table with a navigation bar at the top. The navigation bar will have an array of buttons with different functionalities. The add button will add a new student and redirect the teacher to a page where the teacher can then set the different values for the columns. The Remove button will redirect the teacher to a page where the teacher can then remove students based on there student number. The update button will redirect the teacher to a page where they can select a students student number and it will display their data so the teacher can alter that data. The add column button will redirect the teacher to a page where they can then select what the name of the column shall be and what type (Number, Color Coded(Green for yes. Red for no)). This page will also have many other fields based on what the specifications are needed by the teacher for example what grade should this course be required for, is this course optional, is it optional but is part of a group of courses where one is required, for this a table with the list of groups may be required. The add column function exists so new certifications can be created or required courses. The remove column button exists so the teacher will be redirect and can remove columns or certain certifications. The new year button redirects the teacher to a separate page where they can then select based on a check mark if a person is staying in the SHSM program (Staying for one more semester of grade 13) and then given a final confirm button. If that button is pressed then the year for all the students is incremented and if those that were not selected in the previous screen are above grade 12 they are removed from the list.

The table will contain multiple columns, including name, grade, student number and program. The extra columns will make up the certifications and courses required. At the end it will show a box that says “Has Required Certifications” and “Has Required Courses”. These will alternate as red or green based on whether the student is on track to meet the requirements for the SHSM program. Much of the certifications and all the courses will be represented in the table as red or green where red represent incomplete and green represents complete. These columns can be sorted by pressing the header of the column and it will sort them based on the column.

The tables will appear based on the permissions of each teacher. If a teacher is manufacturing they will see the manufacturing table. If the teacher is an administrator then they will see the first table on top and each corresponding table below it.

Future Ideas

There may be an option to implement new programs as well. This is a very advanced feature but if the program is built right it may be possible. A potential idea would be too have a button which when pressed redirects the teacher to a site where they can then fill out information to create a new table for a new program. Due to the ability to create new columns with the tables it should be simpler for a user to create a table rather then to delve into the code and phpMyAdmin. The issue however is that whenever a new table is created a new set of teachers also has to be implemented so they will have new permissions. If this feature is implemented it may be simpler if either the permissions system was scrapped and everyone could access all the data or if it would be implemented so a teacher could have multiple permissions which may be an issue as sql does not accept arrays as inputs, so some workaround must be invented such as string concatenation.