

TO: *Prof. David Green*

FROM: *Filipe de Andrade Moraes – (BlazerID: filipeam)*

DATE: *07/08/2019*

SUBJECT: *HW5 - Data Collection Application*

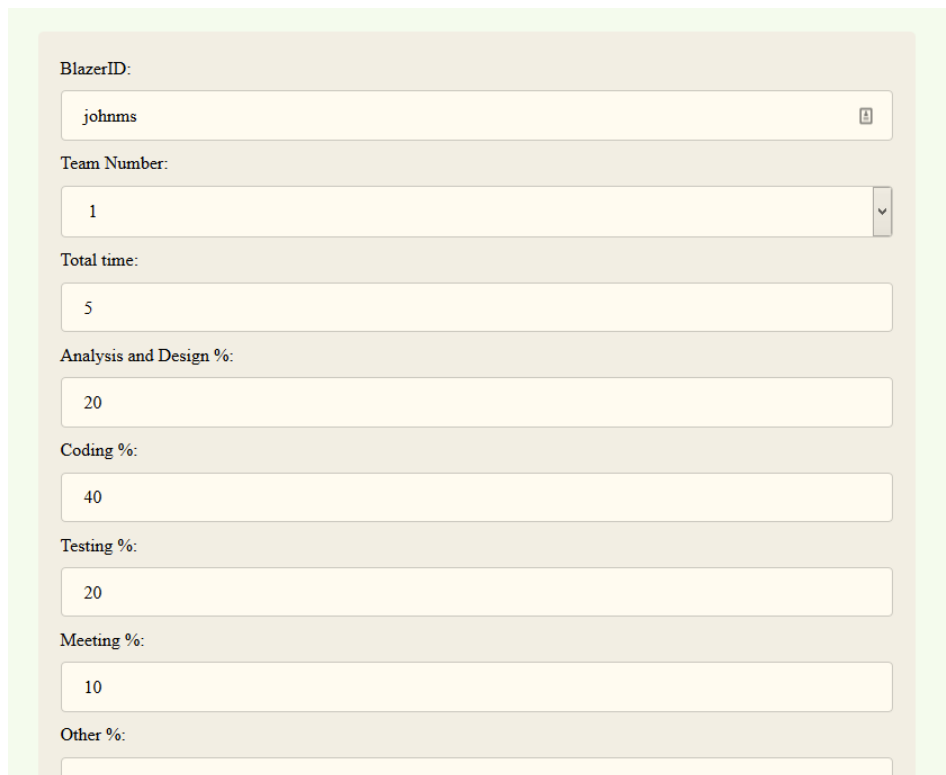
SUMMARY

This assignment goal was to develop an application to store and display log data from students on software project teams. The application runs on a PHP server and stores the data, entered through a HTML form, on a comma-separated file.

To be able to run the application, all the files were located in the XAMPP directory “htdocs”.

1. Completion of the general requirements

The very most important requirement of the application to store data in a .csv file was accomplished the mechanism that links the form bellow on a HTML file to the PHP commands that write the data on the mentioned file.



The screenshot displays a web form with the following fields and values:

Field Label	Value
BlazerID:	johnms
Team Number:	1
Total time:	5
Analysis and Design %:	20
Coding %:	40
Testing %:	20
Meeting %:	10
Other %:	10

Figure 1-Input data form screenshot

When pressed submit having entered all the expected data the following page will be shown giving the data that was entered by the last and all the records stored in the file, displayed bellow it.

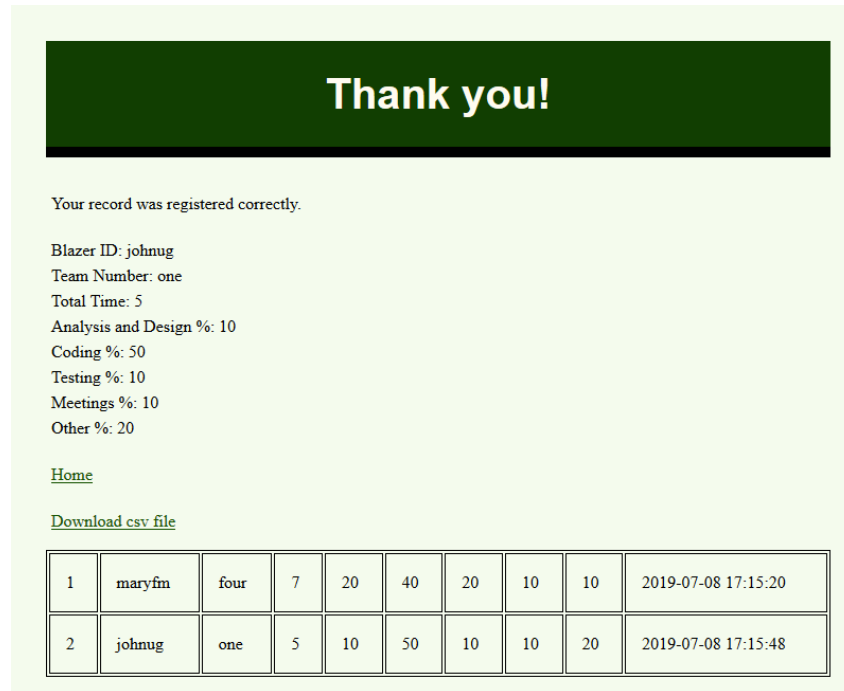


Figure 2-Successful entering of data Screenshot

The label “Download csv file” contains a link that gives the user the choice to download the whole .csv file instead of only displaying on the web browser, as it can be seen on the following picture:

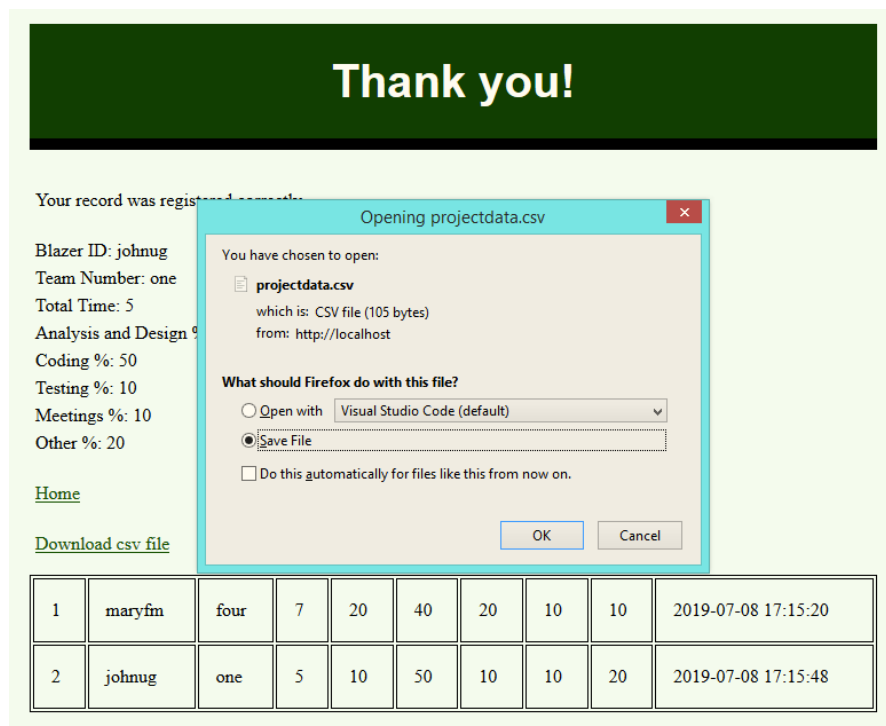


Figure 3-"Save file" dialog box screenshot

The styling of the form and of the whole was developed on the top of the one for the previous assignments. Some changes were made reducing the font and the padding size and changing the color of some of the elements on the page from violet to dark green. That can be seen throughout the page as on the very top of the first which also contains a rubric for the required fields.

Software Project Teams Data Collection

Rubric for Required Input Fields

Field	Example	Detailed Definition
BlazerID	firstnameln	The identification number provided by UAB for each student at the moment of the first enrolment.
Team number	1	The number of the team of your project.
Total time	5	The total time in tenths of hours that your project has taken.
Analysis and Design %	20%	The percentage of the analysis and design time that your project took from the total time.

Figure 4-Top part of the first page

2. Bonus Features - Validate data submitted on server side

Some commands were implemented on the PHP part of the application to validate the input data on the server side. For example, the first field (BlazerId) has to have only letters. The next sequence of pictures show what kind of message it gets in case of typing not as requested to.

Submit your software project information

BlazerID:

Team Number:

Total time:

Analysis and Design %:

Coding %:

Testing %:

Figure 5-Wrong input data for the BlazerId

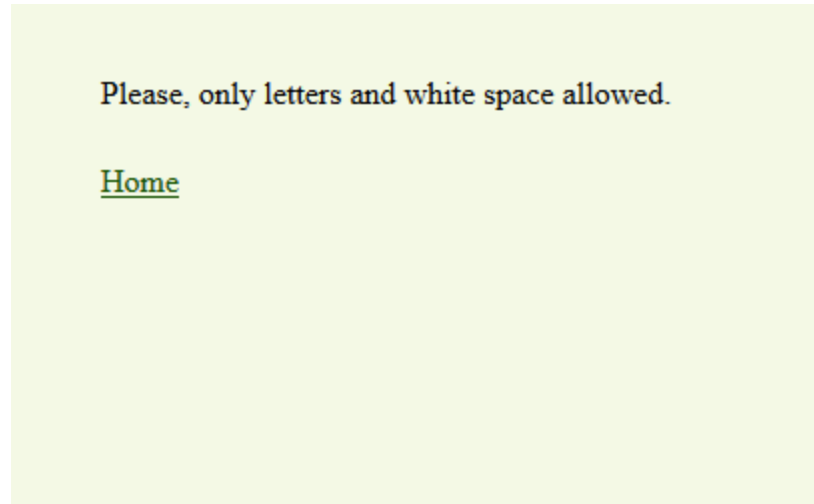


Figure 6-Error message for the BlazerId field

3. Bonus Features - Produce log information for this student

As mentioned earlier, all the log information highlighting the last and also the whole .csv file is shown when a correct data input is entered.

Thank you!

Your record was registered correctly.

Blazer ID: johnug
Team Number: one
Total Time: 5
Analysis and Design %: 10
Coding %: 50
Testing %: 10
Meetings %: 10
Other %: 20

[Home](#)

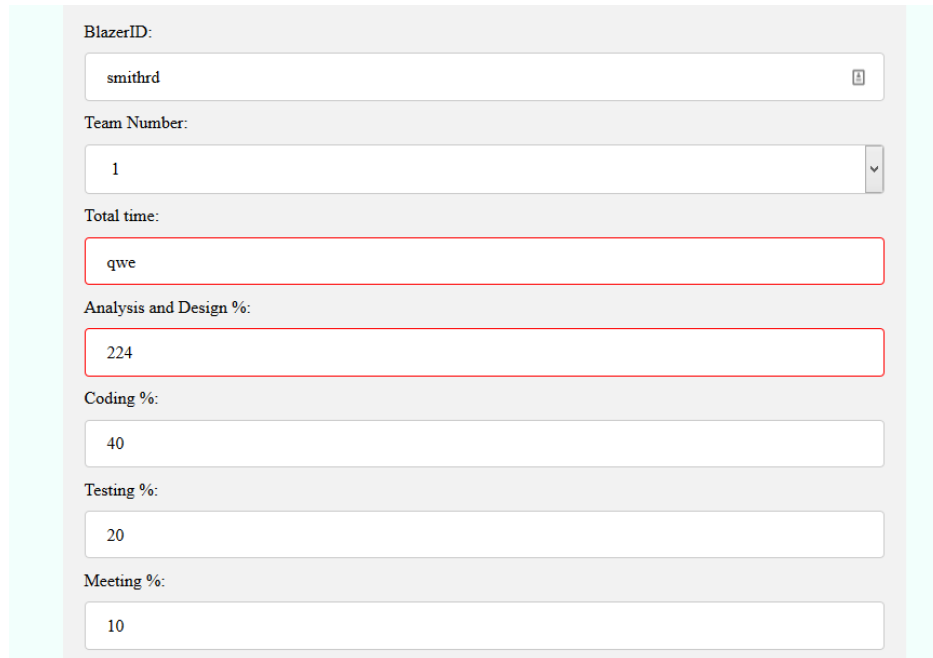
[Download csv file](#)

1	maryfm	four	7	20	40	20	10	10	2019-07-08 17:15:20
2	johnug	one	5	10	50	10	10	20	2019-07-08 17:15:48

Figure 7-Log information with the student data

4. Bonus Features - Provide client side validation of the inputted data

For the client side validation, a specific function for checking if the number entered on the percentage fields were not above 100 was developed. Also, this function validates if it was entered only numbers as the input data. When any of those are wrong, the border is turn to red and when fixed it get back to gray.

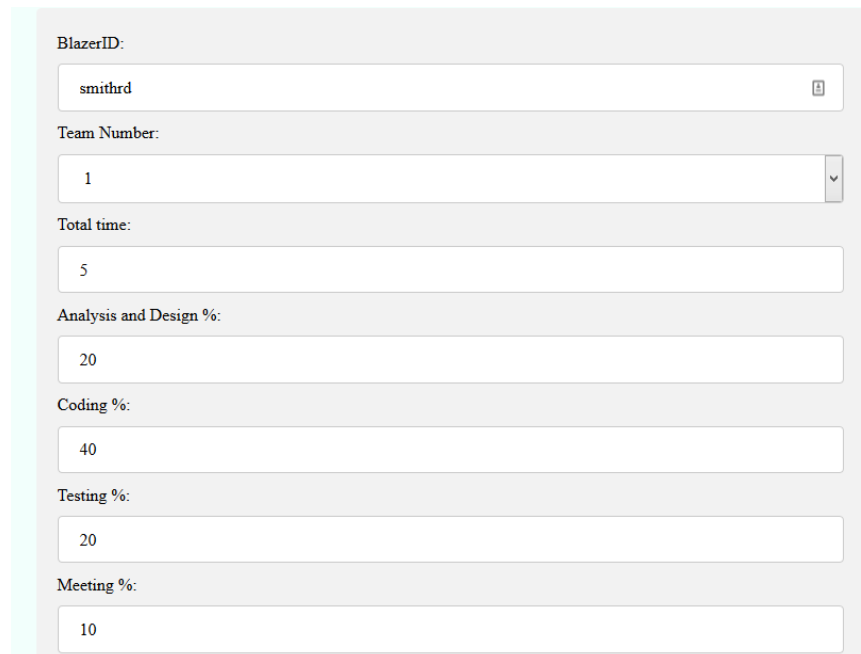


A screenshot of a web form with the following fields and values:

- BlazerID: smithrd
- Team Number: 1
- Total time: qwe
- Analysis and Design %: 224
- Coding %: 40
- Testing %: 20
- Meeting %: 10

The input fields for 'Total time' and 'Analysis and Design %' have red borders, indicating they contain invalid data (non-numeric and value > 100, respectively).

Figure 8-Validation showing wrong input data



A screenshot of the same web form as in Figure 8, but with the following values:

- BlazerID: smithrd
- Team Number: 1
- Total time: 5
- Analysis and Design %: 20
- Coding %: 40
- Testing %: 20
- Meeting %: 10

All input fields now have gray borders, indicating that the data is valid and within the constraints.

Figure 9-After the data is fixed, the border turned to gray.

REFERENCES

1. H. Harris (2019, july, 07). *Dummies: How to Write a Basic Text File in PHP for HTML5 and CSS3 Programming* [online webpage]. Available: <https://www.dummies.com/programming/php/how-to-write-a-basic-text-file-in-php-for-html5-and-css3-programming>
2. (2019, july, 07). *Webslesson: How to Store Form data in CSV File using PHP* [online webpage]. Available: <https://www.webslesson.info/2017/09/how-to-store-form-data-in-csv-file-using-php.html>