TODO Application:

Problem Statement:

Make a small application that can be used as a simple todo list. You should be able to add tasks, view tasks, delete tasks. Each task has a status i.e. Pending, Started, Completed, Late. There is a due date for each task as well. On the main page you need to show how many total tasks are in the system and the count for each status type i.e. 3 pending tasks. Clicking on the status count filters the list ( or takes you to the new page) with these tasks.

It needs to be a client server application Architecture. ( WAMP Stack ) In addition to the code you need the following as well.

Functional requirements (required/desired) 6

Non-functional requirements 6

System Architecture Diagram one for the complete system

Data Flow Diagram one for the complete system ( level 2)

Use case 6 use cases

Sequence Diagram 6 sequence diagrams

Database Design one for the system, 3+ tables

Class diagram one for the system, 3+ classes

Test Case 6 operations to be tested

Add [4996WSU@gmail.com](mailto:4996WSU@gmail.com) to your repository.

In addition you need to provide a work break down for the assignment. It should have the following:

**Name of the task:** Install WAMP Environment

**Estimated No of hours:** 0.5 Hours

**Actual time spent:** 1 Hour

**Notes:** Had to do some research on how the WAMP stack worked, what it composed of, etc. I wanted to make sure I understood it before I just went and downloaded it. The actual installing took a few minutes.

**Issues:** None

**Name of the task:** Create Git Repository

**Estimated No of hours:** 0.5 Hours

**Actual time spent:** 0.5 Hours

**Notes:** Was deciding between source control applications, decided on GitHub.

**Issues:**

**Name of the task:** Create Database

**Estimated No of hours:** 1

**Actual time spent:** 2

**Notes:** As I was creating the database, I got roped into viewing tutorials on how to do commands with the database itself. I wanted to make sure I was setting the primary key and the nullable fields correctly.

**Issues:** I initially got a warning that I had an illegal string offset, but it went away when I made my Description field not nullable. Then when I changed it back to allow it to be null, it didn’t come back.

**Name of the task:** Create Homepage Look without any functionality

**Estimated No of hours:** 2

**Actual time spent:** 3

**Notes:** Spent too much time focusing on the look, playing around with the container colors and finding a background image that looked pleasing. My beginner CSS knowledge also played a part in the longer time spent.

**Issues:**

**Name of the task:** Create the Task viewing pages

**Estimated No of hours:** .5

**Actual time spent:** .75

**Notes:** Was considering the possibility of setting a php sessions variable when a specific status was clicked on, which would determine what the query would look like. This way I would only have one page that shows the tasks but currently decided against it. Will consider it more once homework is almost complete to clean things up

**Issues:**

**Name of the task:** Get connection with database showing and display numbers on homepage

**Estimated No of hours:** .5

**Actual time spent:** 1

**Notes:** Lack of knowledge of php syntax delayed this

**Issues:** Wrong php syntax and function calls kept me from connecting to the database. Figuring out how to extract the data from the object returned by the query kept me from displaying the numbers. Fetch\_array() function fixed this.

**Name of the task:** Display data on their respective pages

**Estimated No of hours:** .5

**Actual time spent:** .5

**Notes:**

**Issues:**

**Name of the task:** Add delete capabilities to each of the pages that display data

**Estimated No of hours:** 1.5

**Actual time spent:** 3

**Notes:** Figuring out that I can pass variables with a form is going to allow me to lose all of the different pages I use to display the tasks of each status, and just have one. Depending on the variable I send when I first

**Issues:** I had way too hard of a time with this than I should have. Tried many things, but without it being a form. Once I found that I could hide the input, and then submit it as a form and pass on the variables to a new page it was like night and day.

**Name of the task:** Refactor site to only need one page to display the results of a specific task status

**Estimated No of hours:** 1

**Actual time spent:** .75

**Notes:** Knowing how to pass the variable via forms, the majority of the time spent was on formatting how the pages looked with the new updates

**Issues:**

**Name of the task:** Add insert page

**Estimated No of hours:** 1.5

**Actual time spent:** 1.5

**Notes:**

**Issues:**

**Name of the task:** Allow the edit of a task status

**Estimated No of hours:** .5

**Actual time spent:** .5

**Notes:**

**Issues:**

**Name of the task:** Add buttons to allow user to go to homepage wherever they are

**Estimated No of hours:** .25

**Actual time spent:** .25

**Notes:**

**Issues:**

**Name of the task:** Add “Users” and login/registration pages

**Estimated No of hours:** 2

**Actual time spent:** 4.5

**Notes:** Took way longer than I thought it would. Had to go back through all my code and make sure that my queries were using the UserID to link tasks to their users. Made sure that every page cannot be accessed without logging in. Every form passes the username and password to double check on the next page that it is a valid user.

**Issues:**