### OVERVIEW

This documentation was created for the ‘Simplicity:To-Do List’ application. It includes software requirements, diagrams, test cases, and a work breakdown structure as requested.

### FUNCTIONAL REQUIREMENTS

* Show the user all tasks when the application opens.
* When the user clicks the subtitle label for pending tasks, the only tasks that Should be shown are the ones associated with ‘pending’.
* When the user clicks the subtitle label for completed tasks, the only tasks that should show in the task list should be the tasks that have ‘completed’ as their status.
* When the user clicks the subtitle label for late tasks, the only tasks that should show in the task list should be the tasks that have ‘late’ as their status.
* When the user clicks the subtitle label for started tasks , the only tasks that should show in the task list should be the tasks that have ‘started’ as their status.
* The user has the ability to add a new task to the list.
* The user has the ability to choose a task to delete, which then gets deleted from the system
* The program should list the number of tasks in the system
* The program should list the number of pending tasks in the system
* The program should list the number of late tasks in the system
* The program should list the number of completed tasks in the system
* The program should list the number of started tasks in the system

### 

### NON-FUNCTIONAL REQUIREMENTS

|  |  |
| --- | --- |
| **Category** | **Non-Functional Requirement** |
| Performance | When a status label at the top of the page is clicked on, it should not take more than 2 seconds for the task list to update and only show tasks associated with the previously clicked status |
| Performance | The web application should not take more than 5 seconds to load after the .bat file to launch it is clicked |
| Usability | -usability: 95% of users should be able to add a task within 3 minutes of opening the application |
| Usability | -usability: 95% of users should be able to delete a task within 3 minutes of opening the application |
| Reliability | no more than 10 bugs per 1000 lines of code (LOC) |
| Usability | zero misspelled labels |

### SYSTEM ARCHITECTURE DIAGRAM

### 

### DATA FLOW DIAGRAM

### 

### USE CASE DIAGRAM

### 

### SEQUENCE DIAGRAM(S)

### 

### 

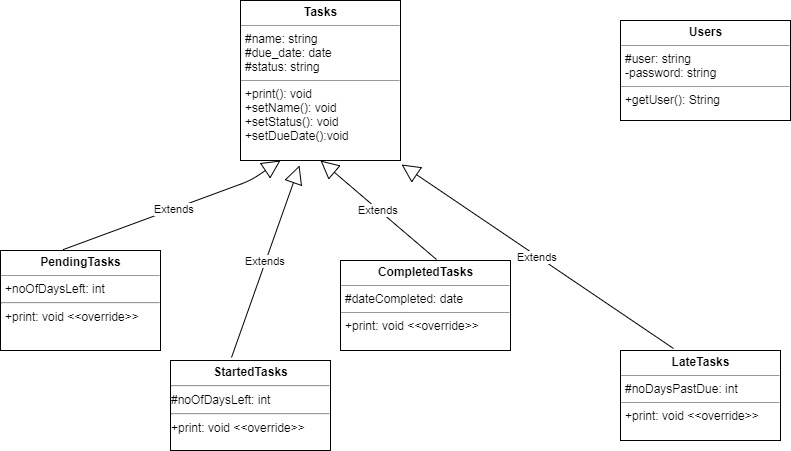
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### 

### DATABASE DESIGN

### 

### CLASS DIAGRAM



### 

### TEST CASES

**TEST CASE #1**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TD\_001 | **Test Case Description** | | **Test the Functionality of the launch.BAT file** | | | | | |
| **Tester's Name** | | Leslie A | **Date Tested** | | January 13, 2017 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Preconditions/Prerequisties** | | |  | **S #** | **Test Data** | | | | |
| 1 | Access to Chrome Browser | | |  | 1 |  | | | | |
| 2 | launch.BAT file is downloaded on the testers computer | | |  | 2 |  | | | | |
| **Test conditions** |  |  |  |  |  |  |  |  |  |  |
| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | double click the launch.BAT file | | the to-do application should open in a web browser | | Step executed as expected | | | Pass | | |

**TEST CASE #2**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TD\_002 | **Test Case Description** | | Test the functionality of the 'Pending Task' Label/Link on the main page | | | | | |
| **Tester's Name** | | Leslie A | **Date Tested** | | January 13, 2017 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data Requirement** | | | | |
| 1 | The machine being used has power | | |  | 1 |  | | | | |
| 2 | A supported browser is being used | | |  | 2 |  | | | | |
| 3 | the browser has access to the internet | | |  | 3 |  | | | | |
| **Test Conditions** |  |  |  |  |  |  |  |  |  |  |
| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | double click the launch.BAT file | | a web browser will open, rending the to-do web application | | As expected | | | Pass | | |
| 2 | double click the label that says "pending tasks" that follows an integer number | | a new page will open that shows each pending task from the previous page, and only shows the pending tasks | | As expected | | | Pass | | |

**TEST CASE #3**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TD\_003 | **Test Case Description** | | Test the functionality of the 'Completed Task' Label/Link on the main page | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Tester's Name** | | Leslie A | **Date Tested** | | January 13, 2017 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data Requirement** | | | | |
| 1 | The machine being used has power | | |  | 1 | N/A | | | | |
| 2 | A supported browser is being used | | |  |  |  | | | | |
| 3 | the browser has access to the internet | | |  |  |  | | | | |
| 4 |  | | |  |  |  | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Test Conditions** |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | double click the launch.BAT file | | a web browser will open, rending the to-do web application | | As expected | | | Pass | | |
| 2 | double click the label that says "completed tasks" that follows an integer number | | a new page will open that shows each completed task from the previous page, and only shows the completed tasks | | As expected | | | Pass | | |

**TEST CASE #4**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TD\_004 | **Test Case Description** | | Test the functionality of the 'Late Task' Label/Link on the main page | | | | | |
| **Tester's Name** | | Leslie A | **Date Tested** | | January 13, 2017 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data Requirement** | | | | |
| 1 | The machine being used has power | | |  | 1 | N/A | | | | |
| 2 | A supported browser is being used | | |  |  |  | | | | |
| 3 | the browser has access to the internet | | |  |  |  | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Test Conditions** |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | double click the launch.BAT file | | a web browser will open, rending the to-do web application | | As expected | | | Pass | | |
| 2 | double click the label that says "late tasks" that follows an integer number | | a new page will open that shows each late task from the previous page, and only shows the late tasks | | As expected | | | Pass | | |

**TEST CASE #5**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TD\_005 | **Test Case Description** | | Test the functionality of the 'Started Task' Label/Link on the main page | | | | | |
| **Tester's Name** | | Leslie A | **Date Tested** | | January 13, 2017 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data Requirement** | | | | |
| 1 | The machine being used has power | | |  |  | N/A | | | | |
| 2 | A supported browser is being used | | |  |  |  | | | | |
| 3 | the browser has access to the internet | | |  |  |  | | | | |
| 4 |  | | |  |  |  | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Test Conditions** |  |  |  |  |  |  |  |  |  |  |
| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | double click the launch.BAT file | | a web browser will open, rending the to-do web application | | As expected | | | Pass | | |
| 2 | double click the label that says "started tasks" that follows an integer number | | a new page will open that shows each started task from the previous page, and only shows the started tasks | | As expected | | | Pass | | |

**TEST CASE #6**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TD\_006 | **Test Case Description** | | Test the functionality of the 'back to previous page' button in the 'pendingList.php' file | | | | | |
| **Tester's Name** | | Leslie A | **Date Tested** | | January 13, 2017 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data Requirement** | | | | |
| 1 | The machine being used has power | | |  | 1 |  | | | | |
| 2 | A supported browser is being used | | |  | 2 |  | | | | |
| 3 | the browser has access to the internet | | |  | 3 |  | | | | |
| 4 |  | | |  | 4 |  | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Test Conditions** |  |  |  |  |  |  |  |  |  |  |
| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | double click the launch.BAT file | | a web browser will open, rending the to-do web application | | As expected | | | Pass | | |
| 2 | double click the label that says "pending tasks" that follows an integer number | | a new page will open that shows each pending task from the previous page, and only shows the pending tasks | | As expected | | | Pass | | |
| 3 | look for a button labeled 'back to previous page' on the current page | | A button labeled 'back to previous page' should be seen in on the right side of the page | | As expected | | | Pass | | |
| 4 | click the button that is labeled 'back to the previous page' | | the web page should change. The web browser should now be rending the previous page 'index.php' | | As expected | | | Pass | | |

## WORK BREAKDOWN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of task** | **Estimated # of hrs** | **Actual time spent** | **Notes** | **Issues** |

DOCUMENTATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| learn what functional requirements are | 0:10 | 0:10 | 2:10 |  |
| learn what non-functional requirements are | 0:05 | 0:17 |  |  |
| identify/write at least 6 Functional requirements for the app | 0:10 | 0:07 |  |  |
| identify/write at least 6 Non-functional requirements for the app | 0:05 | 0:13 |  |  |
| learn how to draw system architecture diagrams | 0:20 | 0:10 |  |  |
| find software to draw the diagram (Online or from WSU’s virtual machine) | 0:15 | 0:10 |  |  |
| draw a System Architecture Diagram for the complete system | 0:20 | 0:10 |  |  |
| learn what a level 2 data flow diagram is | 0:30 | 0:20 |  |  |
| find software to draw data flow diagram | 0:10 | 0:00 |  |  |
| draw a level II Data Flow Diagram | 0:15 | 0:30 |  |  |
| learn how use cases are typically written | 0:20 | 0:25 |  |  |
| identify/write at least 6 Use cases | 0:20 | 0:15 |  |  |
| learn how to create sequence diagrams | 0:20 |  |  |  |
| find software that can be used to write sequence diagrams | 0:20 |  |  |  |
| draw 6 Sequence Diagrams | 1:00 |  |  |  |
| refresh your memory on how to draw database designs and if there are multiple designs that we need to know about or they just want an E-R diagram | 0:30 | 0:15 |  |  |
| 4 Database Designs (1 for the system, 3+ for the tables)) | 1:00 | 0:20 |  |  |
| learn what they mean exactly by class diagrams by googling them. For instance, are we creating UML diagrams or something else? | 0:15 | 0:10 |  |  |
| -draw 4 Class diagrams ( one for the system, 3+ classes) on UML drawing software (like starUML on WSU’s Virtual lab) | 1:20 | 0:20 |  |  |
| learn how to write test cases | 0:30 | 0:20 |  |  |
| create Test Cases (6 operations to be tested) | 1:30 | 0:45 |  |  |

APPLICATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Learn WAMP | 2:00 | 3:45 |  |  |
| create a very simple application to get a general idea of how its done as learn PHP as you go | 0:45 | 1:30 |  |  |
| learn how to deploy the v.s.a | 0:15 | 2:20 |  | Had issues learning the proper way to deploy a php app |
| deploy the v.s.a | 0:05 | 1:30 |  | -technical issues: originally the web application wasn’t accessible remotely |
| make the v.s.a an executable | 0:20 | 3:15 |  | Spent time trying to figure out how to make the application an .exe file. Misunderstood the submission requirements of the assignment |
| test that executable works | 0:15 | 0:00 |  | Did not turn it into an executable. Did make a .BAT file that will go directly to the web application when clicked |
| look at other to-do list apps for U.I inspiration | 0:20 | 0:05 |  |  |
| Read source code of other PHP apps to get a sense of PHP coding conventions | 0:30 | 0:15 |  |  |
| **create the main page** | 0:15 | 0:30 |  |  |
| add a title to the main page | 0:15 | 0:05 |  |  |
| write the code to show the total number of tasks on the main page | 0:20 | 0:15 |  |  |
| write code to show the total number of tasks for each status group | 0:30 | 0:10 |  |  |
| write the code to show all tasks on the main page | 0:30 | 1:00 | some type of print function |  |
| write code to add a checkbox next to each task | 0:15 | 0:45 |  |  |
| write the functionality to only show tasks of a particular status when the user clicks on the status names under the title menu | 0:30 | 0:25 |  |  |
| write code to show the status of the task | 0:30 | 1:00 | start with 3 columns(?) |  |
| write code to show due date on the same line as the task | 0:20 | 0:05 |  |  |
| write the code to show how many tasks from each status are left (shown on the main page | 0:20 | 0:20 | might need to connect it to an event so it can stay updated  or send a call to the printing function to change whenever we add/del |  |
| write the code/function to add tasks | 0:20 | 0:45 | need to ask for new task, the status  (update: the total number of tasks, number of tasks for the status group that the new task belongs to) |  |
| write the code/function to delete a task | 0:20 | 0:15 | (update: the total number of tasks, number of tasks for the status group that the new task belongs to) |  |
| add functionality to change the status to “late” if the due date has passed todays date | 0:35 |  | -find out if PHP has a java.util.date like feature  -find out if there's a build in feature to compare dates |  |
| **learn how to connect to mySQL writing PHP** | 0:30 | 0:10 |  |  |
| write the code to add the task to the db | 0:30 | 0:15 |  |  |
| write code to delete a task from the db | 0:20 | 0:15 |  |  |