**Product Documentation**

**To-Do Application**

Version 1.0

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**Document History:**

|  |  |  |  |
| --- | --- | --- | --- |
| Timestamp | Version Number | Updated-By | Comments |
| 1/10/18  9:39 AM | 1.0 | Alaa Al-Naber | Initial Draft - Creating and setting up the documentation title page, document layout, table of contents, and content for each requirement/diagram/case |

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**1. INTRODUCTION**

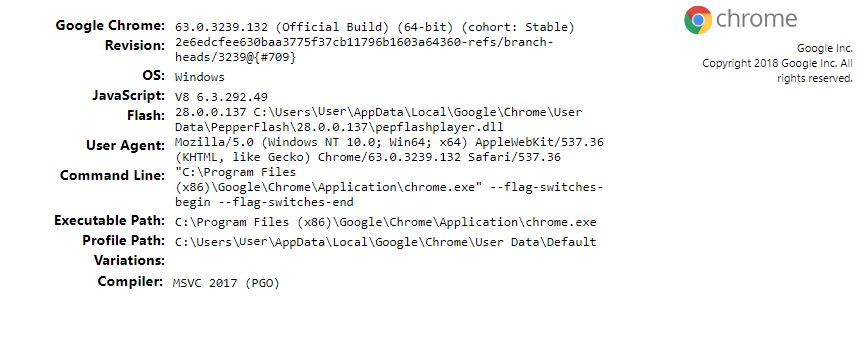
1.1 PURPOSE OF THIS DOCUMENT

This document’s purpose is to give background information of the todo-list application, and this includes requirements, diagrams, and cases. The documentation will define the functional and non-functional requirements. Diagrams included in this document are as follows; System Architecture, Data Flow, Sequence, and Class Diagrams. Use cases and Test cases will be given as well as a Database Design. This is meant as a guide for further development.

1.2 APPLICATION OVERVIEW

This application will allow you to create a task and mark its status. Totals are counted on the main page and this application is hosted on a XAMMP Stack. The todo-list app was developed on google chrome.

1.3 DEVELOPED ON CHROME



**2. REQUIREMENTS**

2.1 FUNCTIONAL REQUIREMENTS

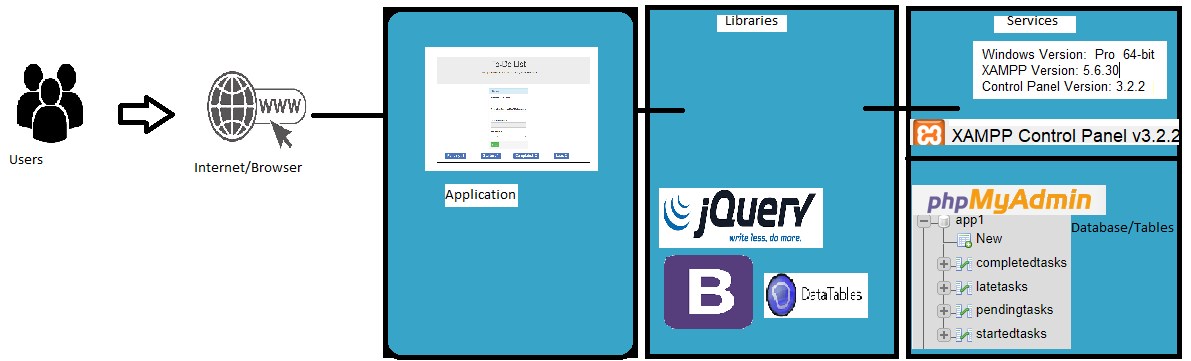
|  |  |  |  |
| --- | --- | --- | --- |
| Requirement ID | Requirement Statement | Must/Want | Comments |
| FR01 | The application must have a button to add tasks. | Must | Button can be on home screen with fields about the task. |
| FR02 | The application must have a button to delete tasks. | Must | Button on home screen. |
| FR03 | The application must have fields where a task can be entered. | Must | Fields are on home page. |
| FR04 | The application must allow someone to switch the status of a task. | Must | Use a select box to select from different status. |
| FR05 | A due date is required for each task. | Must |  |
| FR06 | Totals for each task status is counted. | Must | Add on the home page. |

2.2 NON-FUNCTIONAL REQUIREMENTS

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement ID | Requirement Statement | Must/Want | Comments |
| NF01 | This application should be run on a web browser that can support html5. | Want | HTML5 attributes such as maxlength are used. |
| NF02 | The operating system must be greater than windows XP. | Must |  |
| NF03 | The machine must be able to XAMMP stack. | Must | This is a must because there is no public domain for this web application and therefore cannot be hosted on a different machine. Unless you are using the application on the intranet. |
| NF04 | This is a freely distributable application. | Must |  |
| NF05 | The space of the website will be dependent on the user’s machine. | Must | Rows are stored in the database and rows contain information about the task. |
| NF06 | The website should be secure from injections. | Want | Since this app is not public this is not much of a must. |

**3. DIAGRAMS**

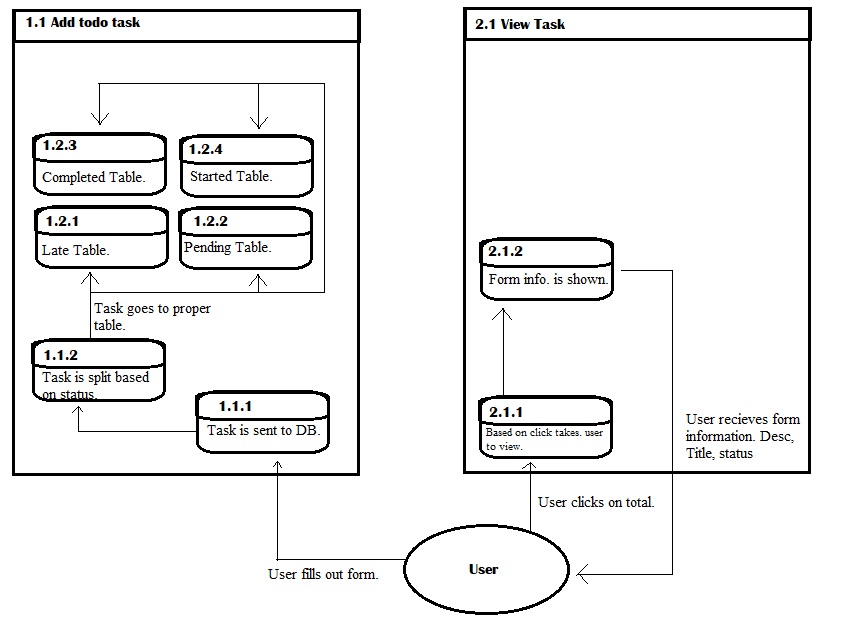
3.1 SYSTEM ARCHITECTURE DIAGRAM



The software requires a desktop with a minimum 512MB of ram, and hard drive space of 1024MB.

The software is built with bootstrap as the style library and scripts. JQuery as a scripting library, these scripts include Datepicker and DataTables. The front end was developed with HTML, and JavaScript is a scripting language used for actions. The backend that is used in this software is PHP 5.6.30. The server type is MariaDB and the version is 10.1.21.

3.2 DATA FLOW DIAGRAM



3.3 SEQUENCE DIAGRAMS

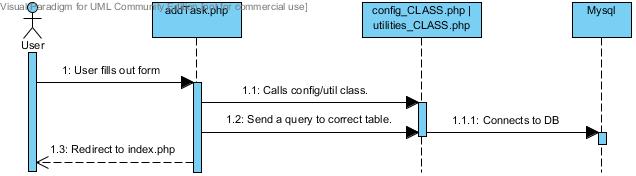


Figure 3.3.1 Adding a task.

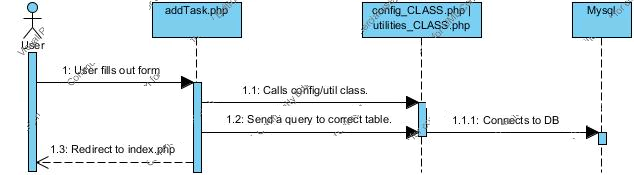


Figure 3.3.2 Viewing a task.

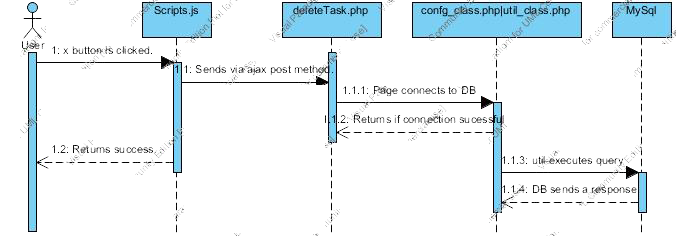


Figure 3.3.3 Deleting a task.

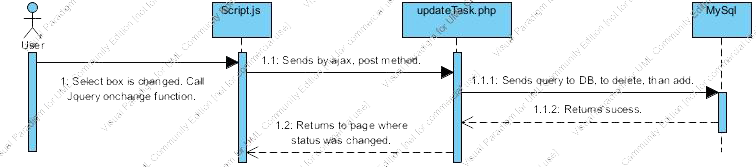


Figure 3.3.4 Updating a task.



Figure 3.3.5 Display the application Version Number.

Figure 3.3.6

**6. WORK-BREAKDOWN**

6.1 DETAILS OF WORK

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of Task | Est. Time Spent | Act. Time Spent | Notes | Issues |
| Front End Creation. | 3 hrs. | 2 hrs. | Most difficult issue was figuring out how to layout the application. | No coding issues, only creative issues. |
| Adding a task. | 1 hr. | 1 hr. | Needed to create a class to connect to DB. | No Major issues. |
| Editing the status of a task. | 3 hrs. | 4 hrs. |  | No Major issues. |
| Deleting a task. | 30mins. | 1hr | Added javascript to get the data-id. Sent it through ajax to php page. | Ran into a bug where first row will only be deleted while the rest do not get deleted. |
| Creating DB | 30mins | 10mins | Used phpmyadmin GUI to create DB. | No major issues. |
| Setting up Git/version control. | 20mins | 1hr. | Used github and SourceTree. | My first attempt at creating a git lead to me having to pull a file that doesn’t exist. I recreated the clone and that fixed the issue. |
| Counting the totals. | 1hr. | 3hrs. | Had to use mysql\_result built in php function in order to use the count function. |  |