HDSSD

# Interim Report

Tick Task

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# 1. Project Overview (background and objective)

**Objective**

The main objective of this project is to design, develop, test, and roll out a web-based application that will enable users of third-party time management software utilities to import and use data from a proprietary system into a freeware utility, Tick Task, to give access to view their upcoming tasks on that system and to track tasks that have been completed to date.

Ensuring that this application follows "freeware" principles will be one of the project's secondary goals. In order to distribute the software to as many users as possible with the least amount of input or assistance, this approach necessitates a minimalistic strategy for its production, use, and storage.

Making the user interface as self-explanatory and user-friendly as possible would be another goal of this project. The utility must be "plug-and-play" in terms of ease of use.

**Background**

The project initiator organised a brainstorming session to determine the necessity for this project. The session's attendees are all current coworkers of the session's organiser who are employed by the same company.

The company does not have a specific task management system for its employees. This has been brought up by the workers to management on numerous occasions and has an impact on the productivity of many employees inside the organisation at various levels. But it hasn't led to a suitable answer to the problem.

An alignment with the present business strategy was developed through further discussion with corporate colleagues, which led to the requirements for the software. The stakeholder's will be able to add tasks, view all tasks and edit tasks. These are only the basic requirements that will need to be implemented at first stage and another discussion will be held later to create further functionalities that will help with the workflow in the team to be more efficient.

# 2. Project Functionalities

2.1 Registration System

The user will have the function to register on the login page. This is an option for users who have not registered previously. The register page will ask for First name, Last name, email, and password. This will have a validation function to ensure the user has filled in all details required including a correct format email and secure password. Once done, the user will be able to use the login function to access the web application.

2.2 Login function

The user will be able to securely access their account with their email and password. The login is for users that have registered previously. Once the user has logged into their account, the user will be able to view all tasks that have been logged previously and will be able to perform other functionalities such as edit, search and mark tasks completed.

2.3 Create task

Once the user has logged in and gained access to their data, user will be able to create new tasks. The tasks will contain the deadline dates, project name, task details, and mark as completed. Once task details have been filled out, this will be added to the to do list.

2.4 View all tasks

The user will be able to view all tasks that have been logged previously

2.5 Edit task

The user will be able to edit any tasks that have been logged previously

2.6 Delete task

The user will be able to delete any tasks that have been logged previously

2.6 Mark as completed

The user will be able to mark task as completed once the task has been completed

# 3. Wireframes/screenshots

A blueprint layout of the website is designed to help visualise and outline the layers and functions of the website. There are 3 pages in total for this software that is a register page, login page and to-do list page which shows all tasks that need to be done. Wireframes have been created and can be found in the Project Requirement Specification report. A few screenshots of the actual pages that have already been implemented with functionalities have been attached below **Figure 5.1, Figure 5.2, and Figure 5.3.** These are only the functionalities implemented and once all functionalities are completed, the design will be developed with a better layout and design.

# 4. Problems encountered/speculated

The process in developing this software for this project, a few problems have been faced

### 4.1 Overlooking the little things

As this is the first project to create a web application, a few things have been missed and overlooked that might have slowed down the process in developing the software. A few examples are the device and required software requirements might not be all installed or have no knowledge of using the software that will need extra learning time. Another thing that has been overlooked is errors in the codes while developing the software which can also slow down the process of learning and developing the application.

### 4.2 Ever- changing software requirements

Another problem that has been encountered is having to keep changing the functionalities either adding on more or removing them. This is due to no experience and not realising how much time it will take to implement each function or if each functionality is possible to develop with a limited basic knowledge of Spring Boot.

# 5. Summary of project progress

**Reports**

I have written 3 reports so far which are the proposal report, specification requirements report, and product design report. The reports have helped in visualising the web application and also in planning and organise in developing this software. This current

interim report, is a report of updating progress of this project and what problems have been faced so far.

**Wireframes**

Wireframes have been created in the specification report to help visualise the front end of the web application to ensure all functionalities are implemented and how it will appear in the layout

**Software development**

I am still in the process of learning how to use Spring Boot but also developing the software along with the learning process. All three pages have been created with the basic functionalities. These are the current progress of each page and functionalities.

- Login page

A login page has been implemented with basic functionalities by creating a controller class, authentication service class and JSP class.
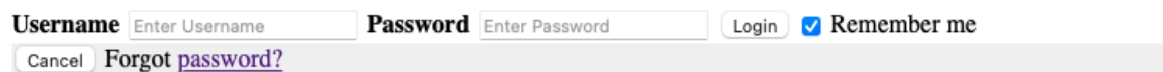
# Login

| **Username** | Enter Username | **Password** | Enter Password | | Login | ☑ Remember me |

Cancel  Forgot password?

*Figure 5.1 Login page*

- Home page

Once login is validated and authenticated, a simple homepage linked to the task management page is shown

# Welcome to Tick - Task jean

Manage your tasks

- Task page

The required functionalities have been implemented for the task management. The functionalities are to create new tasks, edit tasks, delete tasks. They are all functioning by a controller class, Service class, JSP page and a task page that holds all parameters for this software.



*Figure 5.3 List of tasks page*

**Database**

The database Tick Task has been created in MySQL. Tables with parameters and data types are created and connected to the Eclipse IDE through Spring Boot and Hibernate.

# 6. Acronyms

IDE - integrated development environment is a software that is used to build and develop this web application

MySQL - A database software that is used to store data for this web application