TIS2151 Web Application Development

Daily task management system

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1 Introduction

In these modern busy lifestyles, people tend to be forgetful towards the *things* that are important in their life. This might lead them to face the consequences of forgetting those important things in their life. Fortunately, there is a solution out there to solve people's dilemma in brain memory which daily task management system is introduced to help people in noting the important stuffs on a daily basis. It greatly helps user in creating a long time goal for the task to be accomplished.

Daily task management system allows the user to manage their daily task in the calendar. The user can keep track of their daily task in the calendar or print out for reference purposes. When the user inserts any wrong task, they can delete the wrong task and recreate a new task to replace it. The system provides a security feature that allows the user to login with encryption which it only allows the authorized user to gain access the system as most browsers will not remember the encrypted password. Daily task management system provides the admin with the ability to manage the user in the system.

The aim of this project is to build a web application that enable user manage and keep track their daily task.

2 Problem Statement

a) People's short memory

Certain people tend to be forgetful towards the things that are important. Some of them always forget things because of their business overrides their daily task. Usually these people forget the important task need to be done on important dates, this result them to be not productive.

b) People's laziness

Certain people are lazy to proceed their task if there is a big gap to the due date of the task. Without the task planner, it will demotivate the people to do stuff when they are free. This will cause them to procrastinate, last minute planning, tension, being unprepared at all times and not aware to their responsibility towards the task.

3 Objectives

The objectives for this project are:

- To improve user productivity to stay balance on the day with task management feature in the system.
- To encourage user responsibility towards the tasks that must be done on the day with print daily task report feature in the system.
- To improve user organize skill on task planning in future with daily or monthly task planning in calendar format in the system.
- To allow admin to manage user account with user management feature.
- To restrict authorised user access to the system by login with encryption
- To enable unregistered user with create account feature as a registered user of the system.

4 Solution
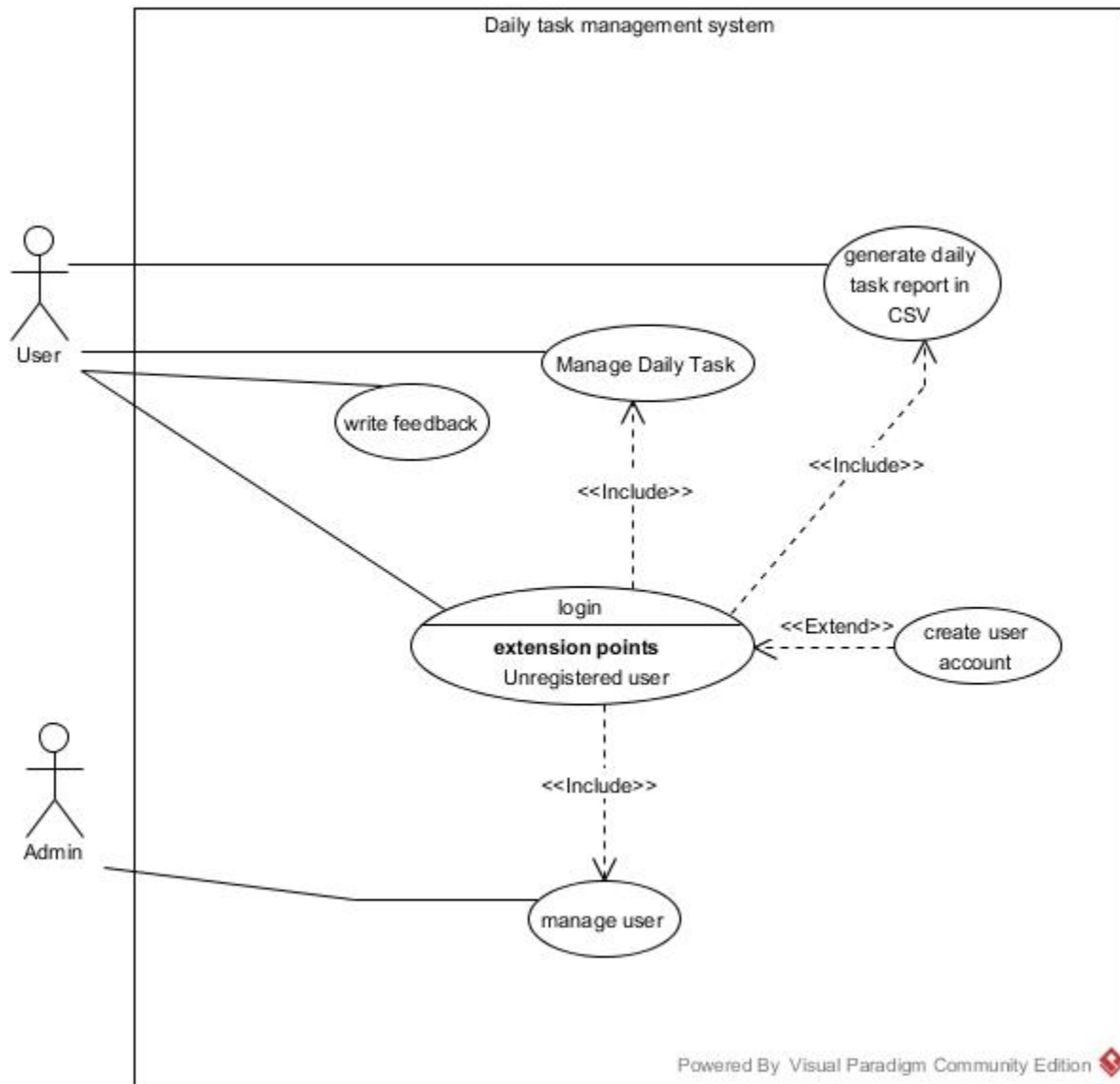
4.1 Analysis

4.1.1 Use-case diagram

Figure 4-1: Use case diagram for Daily Task Management System

Figure 4-1 describes the actors' interaction with the system. There are two modules in this system which is user module and admin module. The functionality of the actors' module will describe as below:

a) User Module

   An user must login to the system with he/she user account and password in order to manage daily task such as add task, delete, view task and generate daily task report that can download in comma-separated values (**CSV**) file format. If a certain condition such as unregistered user is met, the unregistered user can create user account to register as user of the system. The user can write feedback to admin without login to the system.

b) Admin Module

   An admin must login to the system with he/she user account and password in order to perform activity that is managing user. In the manage user use case, the admin can add, update and view user information. The system not allow admin to delete user, this is for future record references purposes. However, the system allows admin to deactivate user account.

4.1.2   Requirements

4.1.2.1 Functional Requirement

Table 4-1 shows the functional requirement for this system.

Table 4-1: Functional Requirement Table

| ID	Requirement Description
FR1	The system shall provide the user with ability to add, delete and view daily task.
FR2	The system shall provide the user with ability to write feedback.
FR3	The system shall provide the user with ability to login to he or she respective account.
FR4	The system shall provide the user with ability to generate daily task report in comma-separated values (CSV) file format.
FR5	The system shall provide the unregistered user with ability to create new account to become a user of the system.
FR6	The system shall provide the admin with ability to add, update and view user account.
FR7	The system shall provide the admin with ability to login to he or she respective account.
FR8	The system shall provide the admin with ability to deactivate user account.
FR9	The system shall restrict unauthorised user access to the system.

4.2 Design

4.2.1 Web Flow Diagram
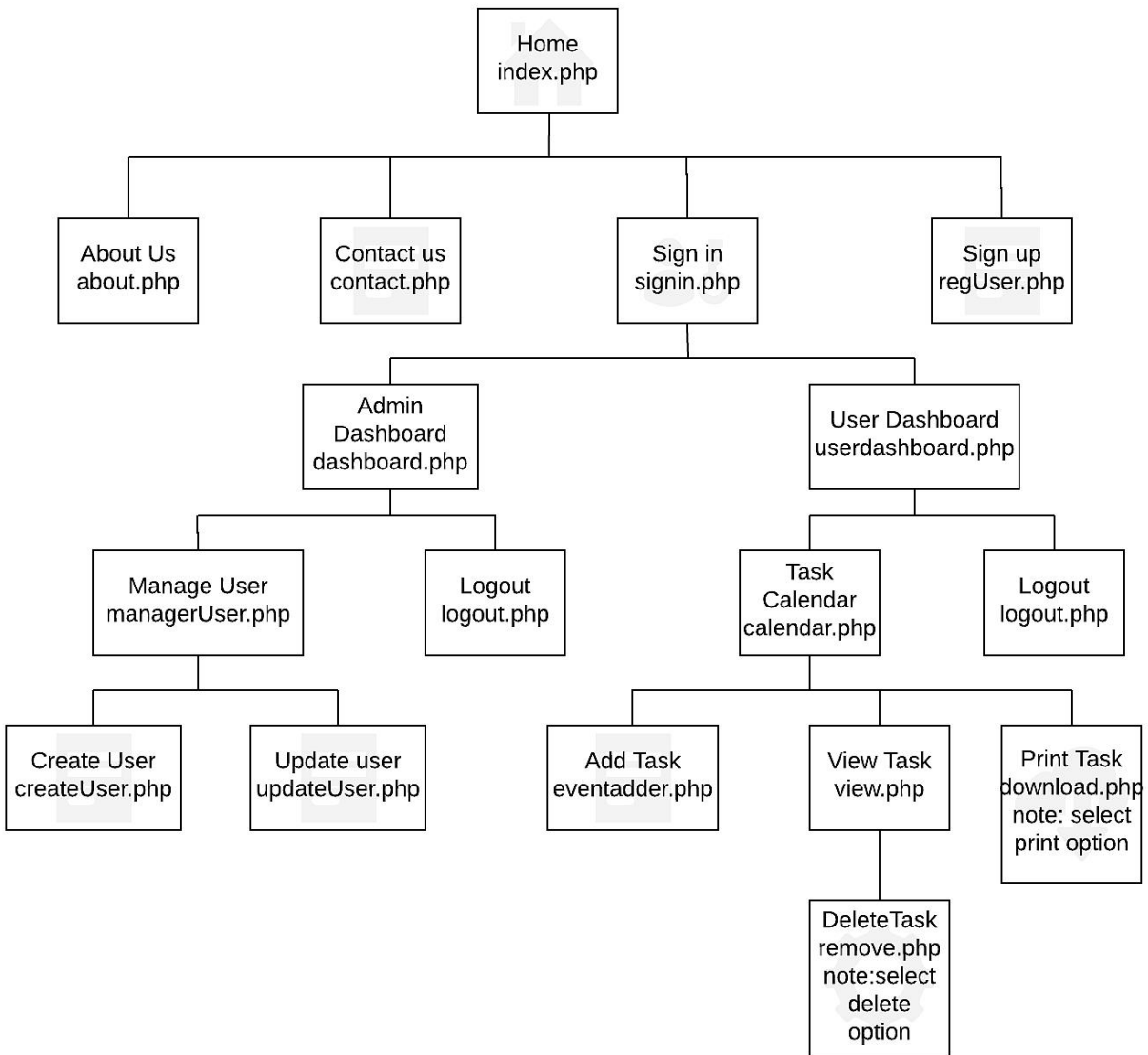
Figure 4-2: Web flow diagram for Daily Task Management System

Figure 4-2 shows hierarchical web flow diagram for the system and details for the web flow diagram will be described in the Table-4-2.

Table 4-2: Web flow diagram table

Page	Filename	Type	Description
Home	index.php	static	The index page of the system
About	about.php	static	Overview of the system
Contact us	contact.php	dynamic	Feedback form
Sign in	signin.php	dynamic	Sign in form
Sign up	regUser.php	dynamic	New account register form
Admin Dashboard	dashboard.php	static	Admin dashboard home page
Manage User	managerUser.php	dynamic	Display all users information with edit and create option
Logout	logout.php	static	Logout from the system
Create User	createUser.php	dynamic	Add new user form by admin
Update User	updateUser.php	dynamic	Update user form by admin
User Dashboard	userdashboard.php	static	User dashboard home page
Task Calendar	calendar.php	dynamic	Display calendar with date or month selection option and print task option
Add Task	eventadder.php	dynamic	Add new task form by user
View Task	view.php	dynamic	Display user's task with delete task option

4.3 Implementation

4.3.1 Limitations

The limitation for this system is real life data from the user has to be used for this system. Anyway, we did use a set of user details test data shown in Table 4-3 for the purpose in the development process.

Table 4-3 User details test data

user_id	username	user_email	user_password	user_status	user_type
1	admin	admin@hotmail.com	123	active	2
2	user	user@hotmail.com	123	active	1
3	tester	tester@hotmail.com	123	inactive	1

4.3.2 Screenshot
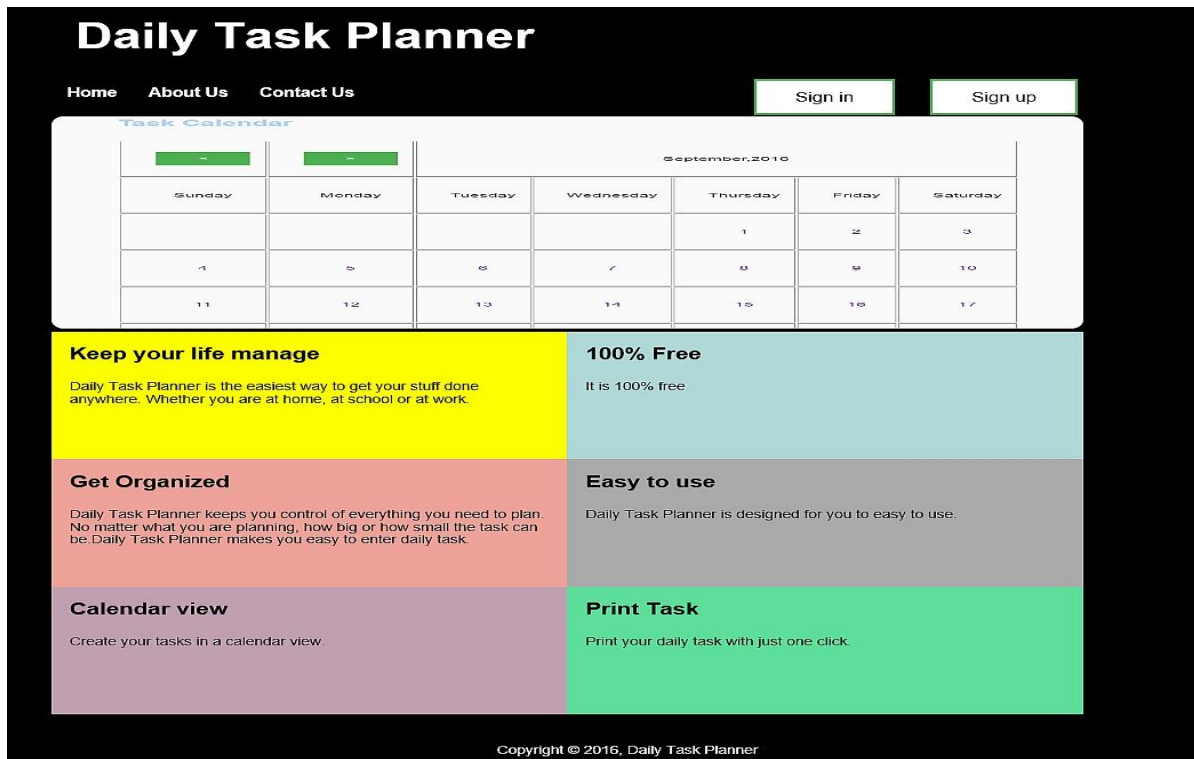
Figure 4-3: Home page

Figure 4-3 shows the home page of Daily Task Management System. The website name is "Daily Task Planner". The home page briefly described the features of the system. In the home page, one can navigate to other pages such as "about us", "contact us", "sign in" and "sign up".
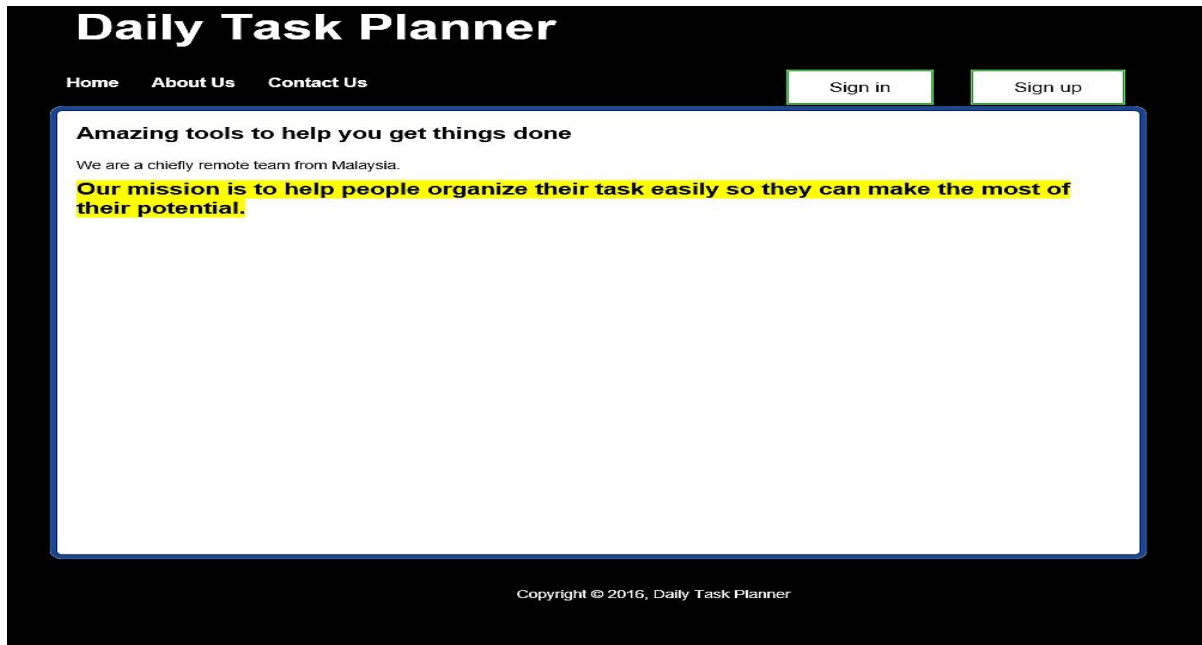
Figure 4-4: About us page

Figure 4-4 shows about us page of the system. The about us page is to let one knows what is the website about. In the about us page, one can navigate to other pages such as "home", "contact us", "sign in" and "sign up".

Figure 4-5: Contact us page

Figure 4-5 shows contact us page of the system. Contact us page enable one to send feedback to admin by entering he or she name, comments, email address and website rating. The system will direct this information to admin's email. In the contact us page, one can navigate to other pages such as "home", "about us", "sign in" and "sign up".

Figure 4-6: Sign in page

Figure 4-6 shows sign in page for the system. Registered user is required to enter he or she email address and password in order login to his or her user account page. If one has not register an account, this page provide an option "create account" or "sign up" to register an account become a valid user. In the sign in page, one can navigate to other pages such as "sign in", "sign up", "home", "about us" and "contact us".
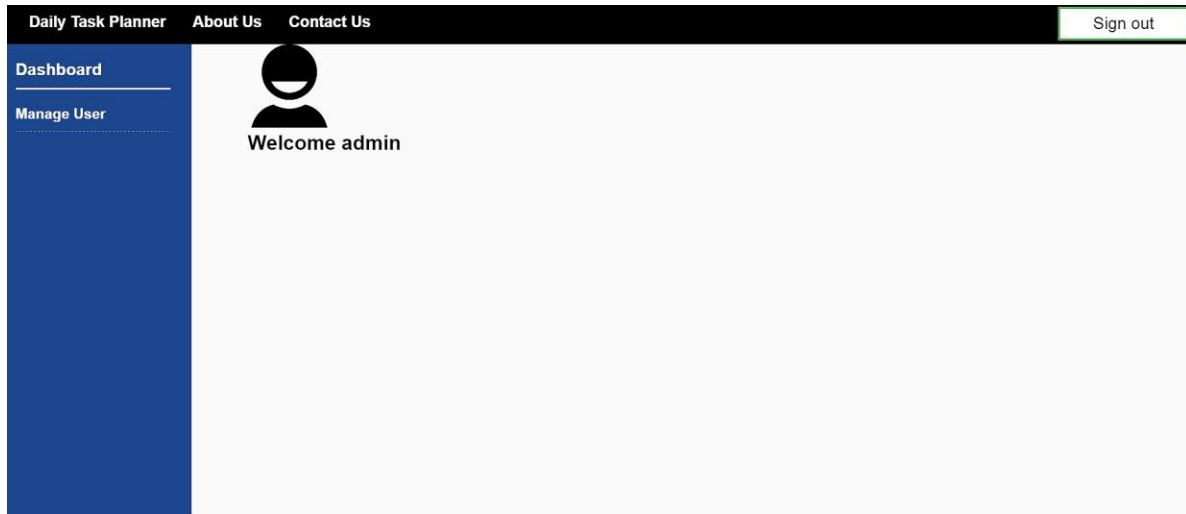
Figure 4-7: Admin Dashboard page

Figure 4-7 shows admin dashboard page of the system. The admin dashboard page will states the admin username on the welcome message. On the left menu, admin can navigate to page "manage user". On the top menu, the admin can navigate to home page "Daily Task Planner", "about us" and "contact us". If admin wish to logout from the system, admin can select "Sign out".
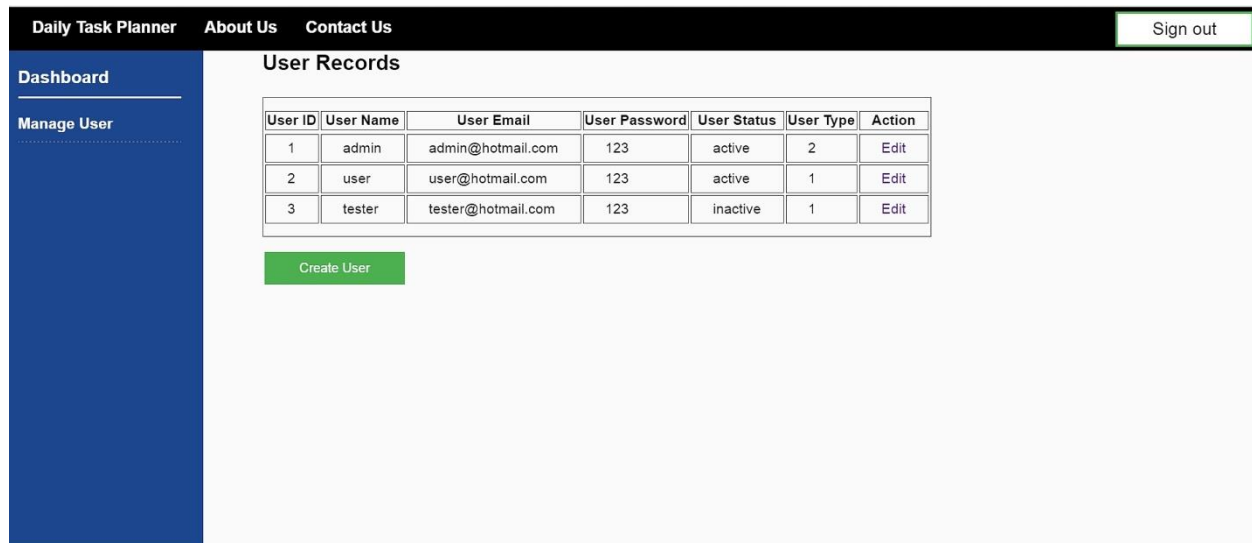

Figure 4-8: Manage User page

Figure 4-8 shows manage user page of the system. The manage user page display all users account information. The admin can edit each user account by select "edit" or create new user "create user". In the manage user page, the admin can navigate to other pages such as admin dashboard "dashboard", home page "Daily Task Planner", "about us", "contact us" and "sign out".

Figure 4-9: Update user page

Figure 4-9 shows update user page of the system. The update user page enables admin to update user account information. In the update user page, the admin can navigate to other pages such as admin dashboard "dashboard", home page "Daily Task Planner", "about us", "contact us", "manage user" and "sign out".

Figure 4-10: Create user page

Figure 4-10 shows create user page of the system. The create user page enable admin to create new user account. In the create user page, the admin can navigate to other pages such as admin

dashboard "dashboard", home page "Daily Task Planner", "about us", "contact us", "manage user" and "sign out".

Figure 4-11: User Dashboard Page

Figure 4-11 shows user dashboard page. In the user dashboard, the user's username is display with welcome user. User has functionality with Manage Task.
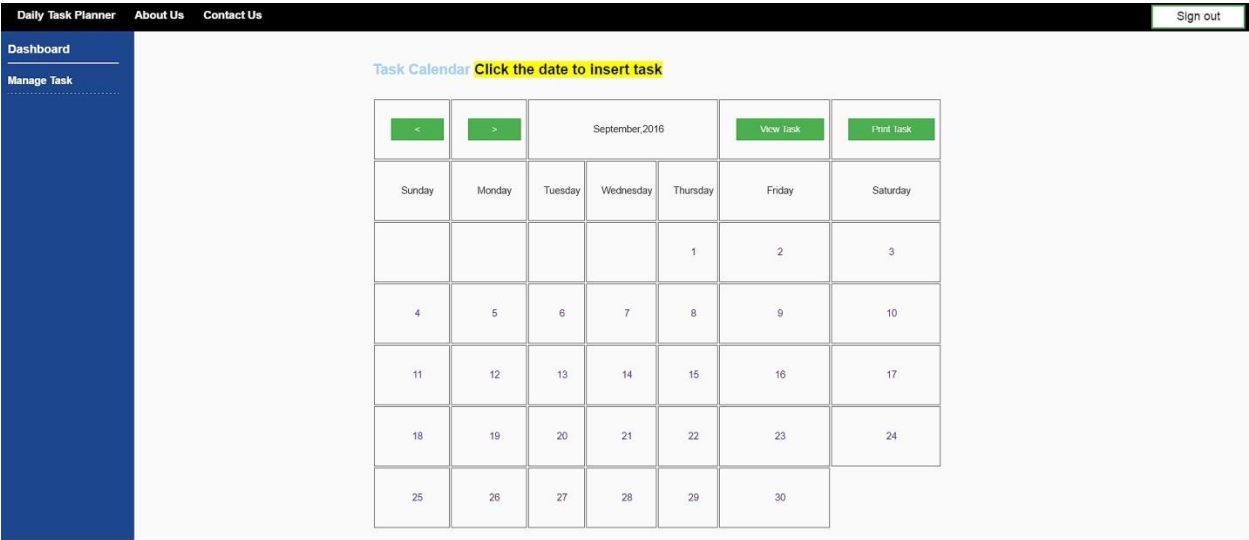

Figure 4-12: Manage Task Page

Figure 4-12 shows Manage Task Page. From the manage task page, user clicks on the previous button to alter the date to the previous date (month, year) and next button to alter the date to the

next date(month, year).On the manage task page, User can click on the date number to access the task form to insert task information. User can click on the view task button to view the added task information and user can click on the print task button to print the task information in csv excel format.

Figure 4-13: Insert Task Page

Figure 4-13 shows insert task page. From the insert task page, User enters the task details such as TaskID, Task,DateAdded,TimeStart,TimeEnd and details and click submit to store the data in database, click clear to clear the not submitted and inserted data, and click on the back button to direct to calendar page.

Figure 4-14: View Task Page

Figure 4-14 shows view task page. From the view task page, user clicks view task button to view the inserted task which extracted from the database and displayed on the view page. In addition, user can delete the task as well.

4.3.3 Functions

The Table 4-4 described the functions for the system.

Table 4-4: Functions

No	Function	Description
1	Login with encryption	Restrict unauthorised user login to the system.
2	User Management	Create user, update user and view user by admin.
3	Logout	Log the current user out and destroys all of the data associated with the user session.
3	Contact Page	Feedback form to fill up and submit to admin email address
4	Task Calendar	Add, delete and view task by user.
5	Generate report	Generate report for daily task in comma-separated values (CSV) file format by user.

5   Conclusion

5.1 Summary

The purpose of this project is to build a web application that enable one to manage he/she daily task. Daily Task Management system consists of certain important features such enable user to manage daily tasks, enable user to create user account, enable admin to manage user account, enable user to send feedback, and enable user to tasks. User can manage their daily tasks by creating tasks, view tasks, print tasks and also delete tasks. Besides that, Admin can also manage user account by editing user's information. Last but not least, Daily Task Management system is built to solve user's laziness and short memory. Aside from that, it also able to boost user's responsibility by letting them to realize their undone job, improve their task organization' skill and at the same time increase their productivity towards the task that need to be done on time.

5.2 Lessons learnt

In this project, we have gone through the usage of web programming languages and tools such as html, css, php, javascript, sql and xampp which are totally fresh to us, this grants us the opportunity to approach and familiar with those web programming languages that will be useful in the future career. Besides that, we also learned that css can change the style of web page; javascript can execute the function in the webpage, sql to store data, html and php to design and execute the webpage and xampp to execute and access the local web page and database.

Although we have encountered a lot of obstacles throughout this project, but we still manage to complete most of the tasks proposed in the proposal and achieve the requirements and instructions as stated in the assignment. In a nutshell, we are delighted to have this project finished within the restricted date, the intensive learning of new web programming languages and the guidance of Madam Aziah throughout the entire process for this project.

5.3 Future work

The future work for this project is including more features to enhance the functionality of the system. The list of future features show below:

- User can change their password under their account
- Search function for admin to find user with certain attributes in the manage user page.
- User can update their task information when wrong data is inserted.
- User can view the daily task separately.