Logo

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**AAPP009-4-2-WDT**

**Web Development**

**GROUP ASSIGNMENT**

**GROUP NAME : RADIANT Online Services**

**WEBSITE NAME : RADIANT Delivery Services**

**INTAKE CODE : UCDF2007ICT(SE)**

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# **Workload Matrix**

Table

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# **1.0 Project Plan Gantt chart**

Chart

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Graphical user interface, table

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# **2.0 Introduction and objectives of the project**

During the early stages of the pandemic, logistics business is heavily impacted. Supplies chains are interrupted, and new regulations is rapidly introduced. With the ongoing demand for delivering goods, many logistic companies are facing issues regarding the situations hence our team have developed a web application which is RADIANT Delivery Service as a website which provides delivery services locally and internationally.

Furthermore, our website is required to solve a few problems regarding the issue due to the impact of the pandemic such as air and sea freight limitations, insufficient land transport and lack of workforce. These issues are to be solved with the design of our web application. Additionally, the objective for the website is to solve the impacted workflow of the delivery services and to make delivering goods made convenient to everybody while providing a safe and trusted service. We want to let customer has a satisfied experiences dealing with us and the services to operate smoothly without facing any performance issue.

As for the design of the website, our team has decided to go for a simple, consistent yet informative website to let our user to easily navigate while also providing sufficient information to let the customer understand the web application without causing any misunderstanding and confusion. This design also allows us to reduce any redundancy information displayed on the website. In the case if simplicity is not present on the website, the website can become messy and user navigating it would be confused or constantly miss out on important detail on the website. Next, as our web application operate internationally and locally, our main targeted geographical location is Malaysia, specifically West Malaysia as our main headquarter will soon be develop there.

Lastly, reflecting the end product of our web application. We created a schedule for air and sea delivery. This allows the customer to view the time of available delivery and the operation of deliver will be able to flow more smoothly. Additionally, with the schedule provided, delivery is able to operate more smoothly due to its systematic approach. Next, a service for domestic delivery is designed to provide delivering services locally. With a simple and easy to fill form, customer is able to ship their package easily within the country. Last but not least, a job posting feature is added to let customer to request a deliver without the need to leave their house. Customer is able to request a delivery anywhere and let our delivery drivers to pick up and send to your desired drop off point. With all of these services and features, our website provides a smooth and systematic operation to ensure our customer is satisfied with our services.

# **3.0 System design**

## **3.1 Wireframe**

**Login**

Graphical user interface, application

Description automatically generated

In the login page, there is a bar on the top which is the menu bar to let user navigate to different section of the website. Next, the basic function such as login, forgot password and sign up which refer to as ‘don’t have an account?’ are included. Besides, to login, just simply insert your username and password and click login and the system will validate and check whether you are able to proceed. Lastly, below is the footer for the user to easily navigate to pages.

**Sign Up**

Graphical user interface, table

Description automatically generated

Similar to login page, the top has a menu bar which lets user to navigate to other pages. In the sign-up page, user enters username, password and email. Next, click on sign-up to proceed. If you already have an account you can also head to the login page. Meanwhile after clicking sign-up, the system will check if the provided information is valid such as the password is it identical to confirm password. After everything is completed, user will then head to login page to login. Lastly, below is the footer for the user to easily navigate to pages.

**Home Page**

A picture containing diagram

Description automatically generatedSimilar to other page, there is a menu bar on top to let user navigate to other pages. During home page, user is able to view our slogan and description about our company, user is also able to click on the learn more to head to the about page. Next, below it is the services section which user are able to book services and to navigate to it, user just have to click on the book now button. Next, more description about our services is shown such as the company we cooperate with and user review. Above the user review, there is a section about be our partner which we hire drivers to work with us. To learn more, click on the learn more to head to the Be Our Partner Page. Lastly, below is the footer for the user to easily navigate to pages.

**About**

Graphical user interface, text, application

Description automatically generated

Similar to other page, there is a menu bar on top to let user navigate to other pages. In this about page, user is able to see description of who we are and what is our goal. Lastly, the footer is also present.

**Contact**

Graphical user interface, application

Description automatically generated

Similar to other page, there is a menu bar on top to let user navigate to other pages. In the contact page, user is able to send us a message regarding their issues or any message they would like to send. User simply provide the required information above and click submit. Below the form is the more details to contact us on other platform such as email, contact number and even social media. The location of our department is also provided.

**Be Our Partner**

**Diagram

Description automatically generated** Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. In the Be our partner page, user is able to register as a driver and to proceed to the job requested page to get available jobs, this feature is only allowed for those who is a driver. To register as a driver, a frame is shown above the menu bar at the bottom which will include a button to proceed to the registration page.

**Driver Registrations**

Graphical user interface

Description automatically generated

Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. In this page, driver is to provide personal information to register as a driver. After filling the form, click on submit form to proceed. The system will validate the form and guide u if any information is missing. After submitting the form, the form will be review by the company and get back to the user within 7 days.

**Driver Register Successful**

Graphical user interface, application

Description automatically generated

Similar to other page, there is a menu bar at and bottom to let user navigate to other pages. This page is just to show the user the registration is successful. To proceed, click on the continue button to return to the home page.

**Booking Now**

Diagram

Description automatically generated

Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. In this page user is able to click on the book now to proceed to the specified page. There is two type of services to book which is air and sea freight that provides international shipping, while domestic shipping in the other hand provides shipping locally.

**Air/Sea Schedule**

A picture containing graphical user interface

Description automatically generated

Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. In this page, user is able to view the schedule for the available time to be book. In the two frame above will be displaying all the needed information to the customer. The user is then able to click on a button named ‘book delivery’ inside to proceed to the booking page.

**Book Air/Sea**

Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated

Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. This is the air and sea booking page which user is able to book for delivery internationally. Both page is very similar with only the delivery line is different. To book a delivery, user is required to fill in the delivery information which the system will soon validate after the user has click on the ‘proceed to payment’ which is a submit button.

**Domestic Delivery**

Graphical user interface, application

Description automatically generated

Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. In this page, user is able to book domestic shipping which is local delivery. To book a delivery, simply fill in the form and the system will validate it and guide u which is similar to all other form. Additionally, at the bottom of the form, a unique feature is included which is the job post feature. This feature allows users to post a job and let our delivery driver to fulfill their delivery request. Click on the ‘Try Job Post!’ to proceed to the posting page.

**Job Post**

Graphical user interface

Description automatically generated

Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. This form allows user to post a job request to let our drivers to deliver the package for u without the need to leave your home. This feature allow user to do a delivery anywhere conveniently. Similar to all other form, user is required to fill in and click on the payment to proceed.

**Job Post Page**

Line chart

Description automatically generated with medium confidence

Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. Here, the users who is able to access this page is the drivers and other managerial roles. Only driver or higher role are allowed to view this page. Next, in the frame provided are information of the job request which the user posted in the job post page. The information displayed are from the database which is obtain when user submitted their job request.

**Job Accepted** Graphical user interface, text, application, email

Description automatically generated

Similar to other page, there is a menu bar on the bottom to let user navigate to other pages. This page is to notify drivers that they have successfully accepted the job request. To proceed simply click on the continue button.

**Payment Page**

Graphical user interface

Description automatically generated

Similar to other page, there is a menu bar on top and bottom to let user navigate to other pages. The checkout page is similar to all forms which the user is needed to provide details. User here is to provide personal bank details to proceed with the payment for the delivery services. Lastly, click on the ‘make payment’ to proceed.

**Payment Successful**

Graphical user interface, text, application, email, Teams

Description automatically generated

Similar to other page, there is a menu bar at the bottom to let user navigate to other pages. This page is to notify the user that their payment is successful, and an email and receipt is send to their email for confirmation and review. Lastly, click on the continue button to return to home page.

## **3.2 Navigational Structure**

Diagram

Description automatically generated

## **3.3 Activity Diagram**

**Login**

Diagram

Description automatically generated

Firstly, user click on the login button and a login page will then be displayed. Next, user is required to in username and password in the login form. After clicking submit, the data is validated with the database to check if the login details match the database. If the information is valid, the user will then be directed to the home page. If the details are invalid, user is required to refill the information and submit again.

**Sign Up**

Diagram

Description automatically generated

Firstly, user is required to click on the sign-up button and the sign-up page with be displayed. User will then be required to input username, email and password and submit to register. After clicking submit, the system will check if the email had already been registered in the database. If the email does exist in the database, the user is required to enter a new email due to the previous email had already been registered by someone else. If the email does not exist in the database, the system will then save the registration data into the database. Next, a notification of successful will be displayed and the user will be able to see it. After viewing the notification, user will be directed to the login page.

**Book Service**

Diagram

Description automatically generated

Firstly**,** user who are already login in are now members. Then, as a member, click on book now on any of the services such as air and sea freight, domestic shipping and job post. The flow of each feature is similar with only the database location is different. Then, user will be directed to the booking page to fill up the delivery booking form. After user finish filling up the form and submit. The system will validate the information to ensure the details provided are valid. If the information is not valid, the user is required to resubmit the form after modification. If the details are valid, the system will then save the booking form data into the database and direct the user to payment page. In the payment page user is required to fill up payment detail and submit which the system will validate. Moving on, the payment will then be saved and a receipt with be send to the user’s email. The system will then notify the user that is payment is successful and soon redirect the user to the home page.

**Driver Registration**

A screenshot of a computer

Description automatically generated with medium confidence

Firstly, user who is a member is allowed to click on the register as driver button and will then be directed to the registration page. Then, user fills the form and go through the system validation. Once the user passes the validation, the data is saved into the database. Next, the form data is sent to the managerial role for application approval, the form details are also sent to the user’s email. Moving on, a notification is shown to the user and will then be directed to the home page.

**Get Job**

Diagram

Description automatically generated

Firstly, user who are driver are only allowed to use this feature. Driver is required to login to proceed. After successfully logged in, user is redirected to the job request page. Meanwhile, the system will read from the database to check if any job is posted. If there is no job, the user will be notified and redirect to the home page. If there exist job in the database, a table containing the details of the job is displayed for the user to view. Next, the user views the table for information and chooses the job they want. Then, after picking the job, user will then click on the take job button which then be notify as the job is accepted. The system will also then send the job detail to the user’s email for review. Lastly, the user is directed to the home page.

## **3.4 Entity Relationship Diagrams**

A screenshot of a computer

Description automatically generated with medium confidence

# **4.0 Implementation**

## **4.1 Signup– HTML Form, PHP**

Text

Description automatically generated

PHP- Connection, check, and insert data into database.

Line of code 1 – 7, is to establish connection to mySQL server which allow system to connect to server and database.

Line of code 10 – 13, is for database import the data from system(form) that is submitted by user.   
After user submit the form, system will need to identify data which is using the attributes (name=" ") from form.

Line of code 15 to 22 is for system to check the username or email that input by user, have or not existing in database, if that is existing system will pop out an alert box tell user that Username or Email Already Exists, and ask user to try again.

Line of code 23 – 32, After System check the username and email is not in database, system will insert the data into database by using SQL. Then system will move user view from sign up page to log in after signing up successfully.

Text

Description automatically generatedHTML- User create account form.

Line of code 96, is to create form with a tag(<form>) with an attribute (method="POST"). HTML form is used to collect input, process, and send to server, if did not use form tag to create the form for user to input, system will not be able to read the data from user and send to database. The method attribute is to tell system how to send data to a server, and POST mean that system will send the data to server via server. (method="POST") is a necessary whenever want to submit or add data to a database.

Line of code 108-132, is for user to enter the information for registration. There is (name=" ") for every line of (<input>), the name will be unique, and it is for system to identify and collect data. And line 132 is a button which allow user to submit the register form.

Line of code 134-135, (<a href="login.php">) by using the href attribute with a link which can provide user to have an option when they already have an account and want to go back to Log In page.

## **4.2 Login– HTML Form, PHP**

Text

Description automatically generated

PHP- Connection, check, and insert data into database.

Line of code 1 – 7, is to establish connection to mySQL server which allow system to connect to server and database.

Line of code 10, session handling is a way to make the data available across various pages of a web application. The (session\_start();) function is used to start a new session or, resume an existing one. (tutorialspoint, 2021)

Line of code 12 - 14, is for database import the data from system(form) that is submitted by user.   
After user submit the form, system will need to identify data which is using the attributes (name=" ") from form.

Line of code 16 – 20, system will validate the username and password that input from user with the data in database by using SQL which is line 16 and its mean find the data that from user input and from database in table ‘rcustomers’. Next system will save the validation data as ($count), one (1) will be represent that username and password exist and match, zero (0) will be represent that username and password does not exist and match. Due to username is unique, therefore the ($count) will not more than one.

Line of code 22 – 31, system will check value of ($count), is the value is 1 is mean the record is found, and both of the username and password is correct and match. Next system will show the username and take user to home page as a logged in user. But if the value of ($count) is other than 1 system will show an alert box tell user that Username or Password is Incorrect.

Text

Description automatically generated

HTML- User login account form.

Line of code 92, is to create form with a tag(<form>) with an attribute (method="POST"). HTML form is used to collect input, process, and send to server, if did not use form tag to create the form for user to input, system will not be able to read the data from user and send to database. The method attribute is to tell system how to send data to a server, and POST mean that system will send the data to server via server. (method="POST") is a necessary whenever want to submit or add data to a database.

Line of code 100 – 119, is to provide user enter their username and password, after they finish entering data user will need to hit the Log in button which allow user to submit the log in for and allow system to proceed the validation, in order to make user as a logged in as user.

Line of code 121 - 125, is a link which provide user an option to sign up.

Line of code 126 – 129, is a link for those users that forgot their password and try to reset it.

## **4.3 Update – HTML Form, PHP**

Text

Description automatically generated

PHP- Check user id and update data into database.

Line of code 10 – 12, create a query that will refer to user’s username.

Line of code 18, in order to update the data into database. We will need to get the user id and refer to it. In our case we are putting the user id in an html input tag after we have read the data from table of database by using match of username (have be shown in below in html section). In other way to understanding, is we use the username to locate the user id first and use ($idnum =  $\_POST['idnum'];) to identify it so that we can allow user to modify their own profile based on their user id which is line 33.

Line of code 31 – 46, is for system to update the new data that from user input into database by using SQL. After data successfully updated, user will be relocated to profile page.

Text

Description automatically generated

HTML – Get data from database and display it, edit profile form.

Line of code 143 – 148 & 151 – 156 & 160 – 162, said above (in php section) this is for system to locate user id, in order to allow system update profile. It is to show user information by using PHP and SQL. This code is to get data from specify account by find the matched username from database and username that logged in by user on specify table of database. And then it will be displayed by using (echo) tag and other attribute like line 145 and 155.

Line of code 166 – 170, is same as above but opening tag ({) is still remaining and will continue to the end of form.

Text

Description automatically generated  
Text

Description automatically generated with medium confidence Text

Description automatically generatedLine of code 172 – 295, is a form which allow user to modify their personal details. It is also displaying the user former information by using PHP, such as line 180, 185, 188, 224, 231, 236, 241, 245, 250, 255, 261, 283, this is for allowing user to view their previous record and then they can easily edit the record by entering their new detail into input box and click Save Profile button, so as to update the personal profile.

Line of code 178 – 181, is to locate the user id and show in a text box. But due to using the tag (readonly) user is not allowed to edit it and can only view it. It is a win-win solution for us, because we can provide user to view their own id and at the same time, we can allow system to update user’s personal details by referring it.

Line of code 290 – 292, It is the closing tag (}) for line of code 165 – 170.

## **4.4 Delete – HTML Form, PHP**

Text

Description automatically generated

PHP- Delete user account.

Line 14 – 30, if user click button that name as ‘delete’. Then system will find the user id which is the same way as shown above (update profile section), after that the account will proceed to be deleted by using SQL. Next, it will show that Record Delete Successfully and proceed to logout.php. The reason proceeds to logout.php is after account deleted in database, if go back to home page directly the username might still be shown although the account has been deleted. Therefore to solve this problem, we can proceed to logout first then return to home page as a guest

Text

Description automatically generated

HTML- show id, cancel, and delete button

Line of code 82 – 115, is to show the user id, warning and tell user that the action cannot be undo if they deleted account. Line 111 & 113, is the option to provide user to cancel the action which is delete account and back to home page, or process to delete account which is delete permanently.

## **4.5 Create– HTML Form, PHP**

Text

Description automatically generated

PHP- Insert data into database.

Line of code 11 – 25, if user click the submit button in HTML form after filling up all the needed information. System will procced to identify all the name of the input and insert all the data into selected table of database. Then before show the payment is success, system will close the connection with database.

Text

Description automatically generated

Text

Description automatically generated

HTML- Payment form

Line of code 239 – 297, is the HTML form that allow user to enter their personal payment details, every input code have a name which allow system to identify specify input by using PHP, in order to insert the data into database.

Line of code 300, this is a button which need to be clicked after user enter all the required information, in order to save all the data into database and complete payment.

## **4.6 Read – HTML Form, PHP**

Text

Description automatically generated

PHP, HTML- Read data from database

Line of code 114 – 115, is to connect the database and select all the data from table of database.

Line of code 117 – 130, is to show all the heading on first row of table.

Line of code 132, if the data exist, this will proceed with the code below which is the code (echo "<td>" . $row[' '] . "</td>";) and take the data into table form.

Line of code 134 – 149, is the table which show all the data that exist in database and display and in different grid in a table form.

Line of code 150 – 151, (mysqli\_close($conn);) is a function to close the connection in mySQL database. This code required a parameter which is a connection return by the mysql\_connect function.

## **4.7 Self-created CSS and JavaScript**

**Cascading Style Sheets (CSS)**

Text

Description automatically generated





CSS– To add style for the input with type is text, and text area.

This CSS is providing all the input with type is text (<input type="text">) and text area tag (<textarea ></ textarea>) to have 100% of width which provide a block-level element to fill any remaining space inside of its parent, 12 pixels spacing between element and border, a thin border with 1 pixels and grey color, 4 pixels border radius, and allow user to resize the text box vertically.

Text

Description automatically generated 



CSS- Between opening tag till closing tag of form

This CSS is for all the content that between opening tag of form (<form>) to closing tag of form (</form>). Then content between these two will have 2 rem top, 1 rem right, 1 rem bottom padding, the rem (root em) is length unit which provide provides a way to specify lengths as fractions of the root element’s font size. And for margin and font-size will be 0 value and it will not do any effect to the style. Next, max width is to defines the maximum width of an element which is 45 rem (root em) and 100% with width which provide a block-level element to fill any remaining space inside of its parent. Lastly, the background which is all the content from opening tag to closing tag of form will be show as grey color.

**JavaScript(JS)**

Text

Description automatically generated

JavaScript- Check password matching with confirm password

Line of code 139 – 148, is to check is the password and confirm password matching or not. If password is matching it will be shown as green color and tell user Password Matching, otherwise it will be shown as red color and Password Not Matching, it will be displaying during user doing the form.

Ling of code 150-157, is to show an alert after user enter mismatching password and confirm password which to tell user the Password Do Not Match and ask them try again.

Text

Description automatically generated

JavaScript – Alert Message

Line of code 136 – 170, is a HTML form that allows user to enter their name, email, and message.

Line of code 172 – 189, is a JS provide system to show an alert box when user submit the HTML form successfully which shows a message to tell user their message is submitted successfully.

**5.0 Main section**

## **Error Message**

**Graphical user interface, application

Description automatically generated**

The error message will pop out when the user did not full up the required field for the form as shown in the picture above. The picture above shows the user clicked on submit without entering any password hence the error message appeared. This error message is to ensure that user would not miss out any required fields which are important.

## **Alarm User**

**Graphical user interface, application, website

Description automatically generated**

**Text

Description automatically generated**

The user is alarmed when they try to access the booking feature without logging into the system as shown above. The user is alarmed with a message regarding his action which does not allow them to access the feature. The alarm user feature is to let user know what is needed to be done before accessing a certain feature of the system.

## **Label**

**Graphical user interface, text, application, chat or text message, email

Description automatically generated**

The label exists at the booking form as shown above. The field is labeled to ensure customer is informed regarding what the field is for and what to be inputted into it. This makes the form more informative and let the user to understand the requirement of the form.

**6.0 References**

## **References**

tutorialspoint. (2021, January 21). *PHP - session\_start() Function*. Retrieved from tutorialspoint: https://www.tutorialspoint.com/php/php\_function\_session\_start.htm