Qualification	Module Number and Title
HD in Computing and Software Engineering	CSE 5009 Web Application Development
Student Name & No.	**Assessor**
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Assessment type WRIT1 - Coursework	Duration/Length of Assessment Type 3000 words equivalent	Weighting of Assessment 100%

Marks Awarded		
First assessor		
IV marks		
Agreed grade		
Signature of the assessor		Date	

FEEDBACK FORM

INTERNATIONAL COLLEGE OF BUSINESS & TECHNOLOGY

Module:

Student:

Assessor:

Assignment: design and develop Web Site for *Rathnayaka GYMS* fitness center

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Strong features of your work:

Areas for improvement:

Learning outcomes covered

LO1 Design Web Applications for Organizational Needs
LO2 Develop Server-side and Client-Side programs and integration
LO3 Develop Web Applications with Databases
LO4 Test Web Applications.

Scenario and the Task

Read the following scenario to develop dynamic web application system for given organization and write a report covering the given tasks. The web system documentation also needs to be included according to the given content within the report.

Note that the students would be assessed for the originality effectiveness and quality of the application development.

Introduction

Using the Internet to search for businesses and products is much easier and faster than any time in the past. Professionally designed web site that is an extension of your brand, your site becomes part of the experience of doing business with you.

Scenario

Rathnayaka GYMS is a fitness center, which has been grown rapidly throughout the country. They provide a quality healthcare service and give their members control over their health is paramount

at all **Rathnayaka** GYMS. They help members prevent and overcome degenerative diseases, achieve their optimum fitness goals, realize personal lifestyle development objectives and rehabilitate them into good health. This is accomplished by designing exercise programs that are effective, efficient and motivational. A team of well-trained, committed and passionate professionals is delivering all of these healthcare services, whilst being managed and guided by some of the most qualified and respected experts of the healthcare and fitness industry. They have a strong chain of branches, which located in Kaduwela, Kottawa, Malabe, and Avissawella.

If mention about their packages, currently they are having several packages such like Individual Male (Price - LKR 23800), Individual Female (Price –LKR 19800), Student (Price – LKR 16000), Family (Price – LKR 39500) and Monthly (Price – LKR 6000).

They also tend to establish more branches in future. In addition to fitness programs, they allow members and others to purchase fitness equipment and food supplements from them.

For promoting their business and expanding their customer base, they have planned to invest on a web application.

Assume that you are one of the developers who assigned for this project and you are responsible to design and develop Database driven **Web Site for *Rathnayaka GYMS Fitness Center***. Valid assumptions are acceptable.

Web site should full fill bellow mentioned requirements

- Backend functionality (Database)

- Online registration

- Search Package Details

- Use proper error handling methods.

Note: You can add more functionality with clearly mentioned assumptions

1. Plan and design web application for given scenario (Marks 40) **(LO1)**
    a. Analyzing similar web systems will be very important to plan new site Find web sites that share a similar audience and compare them considering design factors and other relevant features. (Marks 20)
    b. Provide proper UI design and site map including all the design decision justifications. (Marks 20)

2. Implement database driven web application based on given design (Marks 40) **(LO2, LO3)**
    a. Implementation of attractive user-friendly interfaces using appropriate technologies. (Marks 20)
    b. Implementation of back end functionalities (Marks 20).

3. Web site testing is very important to make sure, whether the application is an error free and your organization makes a good impression on current and potential customers. Test your web site by using appropriate techniques. (Marks 20) *(LO4)*

Acknowledgement

Primarily I thank God for being able to complete this assignment in a successful manner. Thus, I take this opportunity to express my deep sense of gratitude and my profound respect to the lecturer who guided and inspired me in doing this assignment. I had to get the guidance of a respected and responsible person at the preparation time and while continuing the assignment. So, I would like to thank our lecturer Mr. Deshan Bulathsinghela whose valuable guidelines and consultations been the ones that helped me patch this assignment and make this full proof success and finalize this successfully.

And also, her instructions which were given underlying the structure has served as the major contributor towards in completing this assignment and her instructions about the developing and coding was more helpful in implementing this Rathnayaka GYMS Web Site. Through those and by this golden opportunity, I got the full knowledge on basics and advance in Web Designing. I hope this knowledge you gave me will help me in learning more advance web developing and designing as well as my career. I really thankful for you because of the massive courage you had to teach us.

Then I would like to thank Mr. Chathura, Miss Manoda and Miss Ishani who is with us and help us in many sides since the beginning of the Bridging Program. However finally, I am really grateful because I managed to complete this assignment within the time period given by our lecturer Mr. Deshan Bulathsinghela. Thank you all!

Contents

Introduction

This Assignment is regarding the Web Application Module and this is the eight assignment we got in our HD Program. Basically, this coursework covers design web applications for organization needs, develop server side and client-side programs and integration, develop web applications with database and testing of web applications. Studying about Web Designing is more important for a student who hopes to become a Software Engineer and a Web Developer as PHP Programming, HTML and CSS directly explains the basics in building websites and how complex codes are made using the basic stuffs. In my assignment, I have ideally shown some theory used along with the evidences.

The primary and main objective of implementing this web application for Rathnayaka GYM is to increase their customer base and to sell their products faster. Rathnayaka GYMS is a fitness center, which has been grown rapidly throughout the country. They provide a quality healthcare service and give their members control over their health is paramount at all Rathnayaka GYMS. They help members prevent and overcome degenerative diseases, achieve their optimum fitness goals, realize personal lifestyle development objectives and rehabilitate them into good health. Therefore, I had to include HTML, PHP and CSS which are more considerable when using to develop a web application. For promoting their business and expanding their customer base, they have planned to invest on a web application.

This document includes User Interfaces, Flowcharts and analyzations. Further, I have included some screenshots of the coding along with assumptions that I have made. Thus, hope this will be an ideal and clear assignment.

Task 1- Planning and Designing

1.1-Analyzing Similar Websites

1.1.1- Mansa Fitness

Mansa Fitness is one of the best leading fitness clubs in Malabe, Sri Lanka which have driven maximum and best results for people. They provide guarantied fitness results to every customer with every tailored solution. They have a set of well trained and qualified trainers. Moreover, they sell Gym equipment and accessories in contact with dealers as well.

When it comes to the **appearance** of the Mansa Fitness Website, it's a responsive and dynamic website. After searching for https://mansafit.com/gym , there are three functions for selecting Commercial Equipment which will display their shop and in the middle the function of Join the Gym which will display their gym related stuffs and at last, the function of Home Equipment which will display their shop again. It is visible that the main home page has divided into three sections separately in a manner of when moving the curser on those three, it will be highlighted in red color. All the images and the techniques that have used are really attractive.

After selecting the function in the middle of the main opening page called Join the Gym, it will direct to the home page, it displays their contact number and the email in the top left corner of the header. And in the top right corner, it displays the functions of Login, Register and the above-mentioned functions of selecting Gym Page, Home Fitness Page & Commercial Fitness Page. After that they have displayed their Mansa Fitness Logo and the navigation bar including the Home, About Us, Membership, Service & Facility, Transformation and Contact Us Pages. Then two eye catching images have displayed after the navigation bar. After those two images, two separate sections have displayed. After clicking on the function called Learn More in the Build Your Gym section, it will direct into another page with a different navigation bar which consists of various types of equipment. It has an image where Parallax Scrolling technique is used and the footer section which have few information about their gym at the end. After that, when click on the function called Learn More in the Dealer Locator section, a window with form will pop up. After those two Learn More functions having sections, Parallax scrolling technique is used with an image. There can be seen a button as Join With Us and that will direct into the membership page which is in the navigation bar. Under that Join With Us button, their Fitness Packages have displayed along with the prices of each and a Join Us button is also there under the prices of each. If we click Join Us button of the selected package, a form will pop up to fill and submit. When moving downwards more by passing those packages, the schedule of the Gym is displayed. Additionally, they have provided a free BMI Calculation part for everyone who access their website. Finally, the Footer section of the website has highlighted by their gym related stuffs like social media accounts and so on. In the Navigation Bar, each tab will direct into separate pages including separate procedures and views.

After selecting the function called Commercial Equipment, a different homepage is displaying with equipment and details which means their shop. The navigation bar of this page includes Cardio Equipment, Strength Equipment, Gym Accessories, Mansa's Blog and More. In addition to that, a searching option is also given to search for equipment using keywords. Like in the Gym function had page, in here various equipment pictures, details and add to cart options have given for the tabs in the navigation bar. Then Featured Items, New Gym Equipment and High-Quality Gym Accessories are displayed with add to cart option, learn more option like many options which direct into the same page where all equipment are inserted inside categories. Then Free Shipping with Shop Now function, Product Manuals with Learn More function and Customer Support with Learn more function are displayed. They are directed into three different pages. After that, a section is there to enter our emails and receive details about their offers. So, finally the Footer can be seen.

After selecting the function called Home Equipment, a different homepage is displayed with equipment and details. This page also same as the Commercial Equipment page. The only difference is there's a tab called Health & Medical in the navigation bar and that will direct into another page.

When it comes to the **functions** of the Mansa Fitness website, the main functions in it are Registration, Login and Payment. When enter to the website and after selecting an option out of the three options in the home page, Login and Register options can be seen at the top right corner of the all pages. When we click the Register option, a form will pop up to obtain our details and create a unique username and password for the customer. There it asks for password and confirm passwords and they must be same. And if entered username is already exists, an error message will appear as already exist. Before registering, a Captcha is there to be done and have to agree with their agreement by putting a tick. Any of those fields in the form cannot be empty. If any field is empty, a warning message is displayed. That's same even for Captcha and Privacy Policy Agreement. If we enter a valid username and email, a message will be displayed as valid. After Registering, a verification email will be sent to the entered email and have to verify it.

After successfully registered, have to click on the Login and a form will pop up. It's essential to register before login. If user hasn't registered before login, there's an option even for registering in the login window as well. Then have to provide the given username and password when registering and press login. If entered username and password are incorrect, then an error message will be displayed as Invalid Username or Password! In case if the password is forgotten, there's an option called Forgot Password. After clicking on that, a different form will pop up mentioning to enter the email and do a captcha and submit. There also, if entered email is empty, does not match with the previously entered email or captcha is invalid, an error message will be displayed as Invalid Captcha. If all entered are correct and no any empty fields, the password reset link will be sent to the email. When click on that link, a form will be appeared and user have to create a new password and confirm password. Then have to submit the form. After that it will automatically redirect into the home page which has the profile of the created account. Furthermore, if someone wants to Login with his/her Facebook Account, that person has to click

on Login and then click on Login With Facebook. Then another window will pop up asking for Facebook login details.

When it comes to the Payment function, first we have to create an account by registering as mentioned above. If we don't want to buy, we can just add the preferred product to cart. When we are ready to buy a product, first we have to add the product to cart. Then the quantity and color can be selected and total price is visible. Secondly, we have to Proceed to the Payment. Then a form will appear and ask for customer's details such as Address, Name, Phone, Email, etc. Then finally, customer can place the order.

1.1.2-Osmo Fitness

OSMO Fitness is an international standard fitness center featuring some of the world's best Technogym equipment and a wide range of facilities including a sauna and steam room, facilities for sports such as Badminton, Table Tennis, Squash and Boxing. This is one of the most exclusive and state-of-the-art gymnasiums and fitness centers in Battaramulla, Sri Lanka.

When it comes to the website of the Osmo Fitness, it's a dynamic, responsive website and after searching for http://osmofitness.com/ the Home page with all functions in its navigation bar will be appeared. Thus, at the top of the left side, their Logo can be seen and when scroll down, the logo becomes small in size while the navigation bar is with the tabs called Home, OSMO Fitness, Train With Us, Membership, Timetable, Rates, Events, Promo and Find us can be seen opposite to their Logo. However, it's convenient to mention that their Home page looks awesome in appearance with the images, color comparison, simplicity and the techniques which they have used. In the Home page, there are six images which appear one by one at certain times after the navigation bar and the logo. On the latter part of that animated images, an introduction to the gym and that section has faded on the animation. When scrolling down, time table relevant for the current date has displayed. Below that, there are six options.

First one is Osmo Fitness which has connected to the Osmo Fitness tab in the navigation bar and that page will just depict some animated images, the about us, three options under Training & Facilities. After click on the option called Hard ABS, it will go for another page called Classes and there are some topics such as Yoga, Material Art and the only option under them are contact Us Now which will direct into the Find Us page in the navigation bar and finally the all three previous options which ends with the Footer while both Personal Training and Cardio Training options have connected with the tab called Train With Us and that page contains different training categories they have and various types of the trainings with a small description and Contact Now function which will direct into the Find Us page in the navigation bar.. Each of those pages contain images at the top of the page.

Second one is Membership option which is connected with the tab called Membership in the navigation bar and that page includes an attractive image as usual and three options as Facilities which will go for a sperate page and display the facilities they have in descriptive manner with the Contact Us Now option. Second option out of the three options mentioned is Contact Us Now which is directed into the Find Us page in the navigation bar. The third option is View Our Membership Options which has connected with the Rates tab in the navigation Bar. That Rates page consists with different kinds of Membership rates in table manner. Under those tables, there are two options as Contact Us Now and View Our Promotions which directs to the Promo tab in the navigation bar. After those three earlier mentioned options which were under Training and Facilities topic and finally the footer.

Third one is the Pre-Wedding Fitness option which will load into a separate page three animated images at the top, description under that and those three earlier mentioned options

which were under Training and Facilities topic and finally the footer. Forth one is Corporate option which gives an error as this site can't be reached.

Fifth one is Osmo Events option which is connected with the Events tab in the navigation bar and that page just consists with an animation, small intro and those two options, those three earlier mentioned options which were under Training and Facilities topic and finally the footer.

The sixth one is the Contact Us option which has connected with the find Us tab in the navigation bar which contains with an image, their contact details, way to contact them online, their location in the map and those three earlier mentioned options which were under Training and Facilities topic and finally the footer.

After those above mentioned six options in the Home page, there can be seen two animated high-quality images one with View More option which is directed to the Membership page and the other one with the Contact Us option which is directed into the Find Us page. And then those three earlier mentioned options which were under Training and Facilities topic. Additionally, there's a function as Calculate Your BMI Now where a form will appear to get calculated our BMI for free then submit and small table mentioning about affection of BMI on people. Any of the fields in that form cannot be empty. If any of the fields are empty, it will display an error message and ask to refresh the page. Before the Footer there are two sections as News which are about Osmo fitness Swimming Pool and Osmo Fitness Website. Opposite to those two, their Facebook page has displayed. Finally, again the navigation bar and the Footer which consists with stuffs regarding their social media accounts and so on.

Thus, with above mentioned descriptive details, all the subpages and tabs in the navigation bar have discussed except the Time Table tab. The Time table tab simply consists with the weekly time table with seven tables and those previously mentioned three options which were under Training and Facilities topic and finally the footer. In addition to that, there's a form to be filled in the Find Us page to contact them online. In that form, any of the fields cannot be empty. If any of the fields are empty, messages will pop up as Please fill in the required fields under each field. And also, a tick should be put where Interested In. Further, a reCAPTCHA is also there to be done to prove that user is not a robot.

However, it's essential to mention that there is no any Login function, Equipment selling function and Payment function in Osmo Fitness Website. Moreover, all above descriptive paragraphs are written based on the topics of appearance, functionalities, validation and so on.

1.1.3-Big Text Gym

Big Text Gym is a gym with an inspiring and motivational atmosphere. It's located in North Austin, Texas and specializes in Powerlifting, Bodybuilding and Strongman, but also has something for everyone and encourages everyone to be their best to reach their fitness goals no matter what they are.

When it comes to the website of the Big Text Gym, it's a dynamic, responsive website and after searching for https://www.bigtexgym.com/ the Home page with all functions in its navigation bar will be appeared. At the top right corner of the website, their Logo can be seen. At center, the navigation bar with the tabs called Home, Events, About/Testimonials, Social Media, Personal/Group Training, Membership, Preferred Business and Contact can be able to see. At the top of the left corner, their contact number can be seen which directs to the Contact tab in the navigation bar. In the Home page, five good looking images have animated and they appear one by one at a time. There, the design technique called Parallax is used. On that animation, there's a function called Upcoming Events inside a red colored box like structure.

That Upcoming Events function will load into a new page which consists with all their names, details and images of Upcoming Events. The specialty in there is, a separate link to Register for all those events and addition to that Facebook links also have provided for each. All of those event registration link will go for different external pages to get registered. Further those Facebook links will be loaded into their Facebook page along with the Facebook Login part. When moving down, all scheduled events can be seen in a calendar and relevant to the current month and date. Inside the footer, location, the navigation bar and few stuffs related to the gym are displayed.

After the Upcoming Events function in the Home page, small introduction has provided. After that introduction, there are three images with three functions and those three images are on one single image. All those function names will be displayed only when the curser is on a particular image. On the first image, About function has given and its connected with the About/Testimonials tab in the navigation bar. On the second image, Stay Up to Date function has given and it will be loaded into a different page which shows few details about their Blog. And at the end the same footer has displayed as mentioned in the above paragraph. On the third image, Gallery function has given and it will be loaded into a different page where few images of their gym are uploaded. And at the end, the same footer has displayed as mentioned above. Then again, an introduction for Testimonials have been provided as a separate section with pink color which makes that section more readable. When moving down, there's another gallery and when the curser is on each image, that particular image will be highlighted by becoming large in size. Beyond that, there's an option called Get In Touch under the topic of Want to Learn More About Our Membership and when click that option, it will direct into the Contact Page which is in the navigation bar. However, when moving down more inside the Home page, some uploaded YouTube videos about their Gym is visible and can share into twitter like another two platforms. After click on one video in will automatically open up with YouTube. Before the footer section in the Home page, there's form to be filled if someone want to Contact the Big Tex Gym. If

someone wants to send a message to them, any of those fields cannot be blank and email field should be in proper format. If entered stuffs are fine and after clicking send message button, a notification will be appeared as Message sent successfully. Next to that form, their weekly opening and ending times have displayed. Finally, the same footer section has displayed as previously mentioned.

Moreover, inside the About/Testimonial tab in the navigation bar, there is an image displayed. After that, few details and then an option to view Google Reviews for Testimonials. The body section of that page has filled with pink color and that interface makes some kind of a different attractiveness on user.

Further, inside the Social Media tab in the navigation bar, some YouTube videos and Twitter posts are visible. All those are related to the Big Tex Gym. Inside the Personal/Group Training tab in the navigation bar, an image of their instructors/trainers can be seen and that looks so amazing because of the shaped and strong looking bodies of trainers. After that, few stuffs about what they provide have depicted.

When move inside the Membership tab in the navigation bar, many details about memberships fees and so on are visible. It's essential to buy a fitness package in order to become a member at Big Tex Gym. So that can be done online. Inside the membership page they have mentioned a link as sign up. After click on that link, it will show all the available packages and details. In that page, it begins with a greeting message.

Further, it's necessary for user to Register or Login at first to buy a package. For all those packages, add to cart option is also available. When user add a package to the cart, cart window will be pop up and show the newly added package along with previous packages. After click on BUY option Infront of a particular package, a window will pop up asking username and password to login. Or else user can register at that moment as well by clicking Register option. After click on Register option, a form will appear and any of those shouldn't be empty as it displays error notifications as This Field is Required. When typing on the Password field, until the password becomes fine, it shows a warning as Password must be between 8 and 100 characters long and requires at least one lowercase letter, one uppercase letter, and one number. In addition to that, Password and Confirm Password should be match. Otherwise, and error notification will be shown as The Password and Confirmation Password do not match. Then a reCAPTCHA is also there to be done and then can press on Register button. After press on Register button a message will be displayed as Thank you for registering! Please check your email to complete the registration. Then an email will be received along with a button mentioning Complete Registration and a link to use if that button does not work. After click on any of those two, their Self Service will be appeared with a form to be filled asking to provide more information about user and some stuffs. Any of the fields in the form cannot be empty. If user try to submit that form with any single empty field, it will provide error notifications under relevant fields. After filling and submitting the form, it will load into the previous web page where it showed their shop with a message as Successfully Registered. Then user can select a package and press Buy option and Login by giving the username and password. Then it will load into their Payment page. There user have to provide a Coupon Code and apply if he/she a

coupon. Else, can provide card details. The unique feature in paying using a card area is when typing the debit card number, letters are not allowed and when user type letters, they will automatically vanish. Only the numbers are allowed to type there. And also, the payment details with Total will be next to that. Under that there is an option called Complete Checkout which is accessible after entering the card details and press Use This Card option. Then can press the option called Use This Card. Under that, Billing Address can be given. Further, beyond that there are two check boxes to get the user agree for their agreement and to get an email with the Membership Agreement. After that, session technique has used. A window will appear and provides the user ten seconds mentioning that Session is Going to be Expired! And it asks to continue or to Logout.

Inside the Proffered Business tab in the navigation bar, just a message can be seen as "COMING SOON". Inside the Contact tab in the navigation bar, A form is there to be filled. Any of those fields in the Form cannot be empty and Email should be in correct format. If the entered stuffs are correct and send message button is pressed, then a notification will pop up as Successful! The message was sent successfully. Next to that their location details have been displayed. After those two, Their Staff Hours can be seen with its container in blue color and finally the footer section can be seen as usual.

Basically, above descriptions highlight the appearance, functions, many validations, main functions like Login, Payment, registration and so on of the Big Tex Gym.

1.1.4-RAK Gym

RAK Gym is an international standard fitness center which is well equipped and where many well-trained and dedicated professional coaches work. This is one of the most qualified gymnasiums located in United Arab Emirates.

When it comes to the website of the Big Text Gym, it's a dynamic website and after searching for http://rakgymuae.com/ , their Home page will be loaded. The navigation bar can be seen through the small three lines in the right top corner of the Home page. So, the navigation menu has been scaled down by including the tabs called Home, About Us, Classes, RAK Academy, Services for Ladies, Services, Our Gallery, Contact Us. Next to that, RAK Gym Facebook and Instagram social media account circled icons have displayed and those two will direct in to RAK gym Facebook page and Instagram page with the login and sign up options. At the top left corner, RAK Gym logo can be seen. Further, there can be seen a high-quality background image where parallax design technique is used. On that background image and at the center, a button called membership has placed along with their two contact numbers. After click on that button, it will be directed into the Contact Us page which loads under the tab called Contact Us in the navigation menu. In the Contact Us page, header section is same as in the home page. Theres a background image in here as well. After that image, there are two separate location(maps) sectors. One has mentioned as United Arab Emirates and the other one is Main Branch Address. After that there is a form to send a message to the RAK Gym. When user tries to click Send button without filling the form in that page, it will show two error messages as The field is required under Subject and Your Email fields in the form. When user completed all fields in the form, user can press Send button and then message will be sent. Finally, the Footer section can be seen with few stuffs about the gym including their Facebook and Instagram accounts, again the location has been displayed on the map, Timings and so on.

So, after the Membership button in the home page, there are three divisions as Healthy Foods, Supplements and Massage Services by allowing an option as Find More in each. However, when user click on Find More function on the Healthy Foods section, another page will be loaded. Inside that page, as usual the logo and the navigation menu are visible while a parallax technique used image also can be seen. Under the image, there are various types of foods along with the name and that part of the page looks amazing. When scroll down more there are three of their RAK Restaurant Instagram posts can be seen. When user click on one of them, user will be directed into a page with that post and Instagram sign up and login options. Finally, the same previously mentioned footer has displayed. Moreover, when user click on the next Find More function on the Supplements section, another page will be loaded with the previous page had parallax technique used image and few of their RAK Gym Instagram posts. As usual, the same footer is able to be seen. At last, when user click on the final Find More function on the Massage Services section, another page will be loaded with the previous page had parallax technique used image and after that there are three images related to massaging. As usual, the same footer is able to be seen.

In the home page, there are few stuffs, as image and a video which are related to the RAK Gym after the three Find More options. After that, there are few Instagram posts of the RAK Gym's. After that, earlier mentioned same form which was in the Contact Us page is there to be completed with same validations. When scrolling down by passing that form, another section is visible with their Address, Phone Number, Email, an image of the gym and the location of the gym in the map. Before the footer, the membership button which had at the top of the home page has displayed. It will also go for the Contact Us page as mentioned in the beginning. As usual, the same footer is able to be seen.

When user click on About Us tab in the navigation menu, a page will be loaded with the previous page had parallax technique used image. Then few details about the Gym have been provided and before the footer, their professionals three social media accounts have attached as icons along with the name and a photo. As usual, the same footer is able to be seen.

When user click on Classes tab in the navigation menu, some sub categories will be appeared such as Fat Burning Classes, Fitness Classes, etc. When user click on each category, user will be able to see a parallax technique uses image at the top and then few Instagram posts and some videos. As usual, the same footer is able to be seen.

When user click on RAK Academy tab in the navigation menu, the same image which parallax technique has used will be appeared and then can see few Class names of the RAK Gym. As usual, the same footer is able to be seen.

When user click on the Services for Ladies tab in the navigation menu, two categories will be displayed as Gym & Massage Services in Al Dhait and Gym & Massage Services in Nakheel. When click on the category called Gym & Massage Services in Al Dhait, user will direct into a page with the same image which parallax technique has used will be appeared and then can see the types of Massage Services they provide. After that there are few photos and Instagram posts have displayed. Tables with prices and many more stuffs, Workout Trainings, Prices, Full Time & Part Time Coaches names like things are visible while moving down. Some texts are bold in font where font styles they have used are very unique. When click on the category called Gym & Massage Services in Nakheel, user will direct into a page with the same image which parallax technique has used will be appeared and then can see few images. After that, there are appointment details, Timings, Workout Trainings and so on. As usual, the common footer is able to be seen in both those pages.

When user click on the Services tab in the navigation menu, four sub categories has provided as Nutrition, Healthy Foods, Supplements and Massage Services. The only new thing in here is the category called Nutrition while other three categories have explained earlier. After click on that Nutrition category, a page will be loaded with the same image which parallax technique has used will be appeared at the top of the page. Inside the body section of the page, details and instructions for about a healthy meal has been provided by using bullet points. There disc has used, bold letters have used and attractive one single font color also has used to describe those. An image of one of their professionals also have displayed. Lastly, the common footer section can be seen.

Finally, when user click on the Our Gallery tab in the navigation menu, two categories will be displayed as Rak Gym and Rak Restaurant. Rak Gym category will load into another page where the same image which parallax technique has used will be appeared at the top of the page. After that few quality images of their gym are visible while the Rak Restaurant category will load into another page where the same image which parallax technique has used will be appeared at the top of the page. Then few images related to their Rak Restaurant can be seen. As usual, the common footer section is visible at the latter part of those two pages.

Therefore, it's evident that above descriptions highlight the appearance, functions, many validations and so on about the RAK Gym.

1.2-Analyzed Table

	Mansa Fitness	OSMO Fitness	Big Tex Gym	RAK Gym
1)Appearance	• This is a Responsive and Dynamic website. • Loads into a page with three sections along with three buttons • When the curser is on one of those three sections, that section will be highlighted with a light red color and an image of their Logo will be appeared on it. • Header section of all pages consist with Logo, contact number, Email, Login or Register functions and the Navigation bar (Tabs inside the navigation bar vary from page to page). • Attractive images with Parallax Scrolling technique. • Swipe-next buttons • Icons with texts on them. • Default curser turns into pointer curser when it's on an option. • Categories are also there under the tabs in the menu. • Banners with faded images and texts/buttons on them	• This is a Responsive and Dynamic website. • Loads into the Home page with all functions in its navigation bar. • Header section of all pages consist with Logo and the Navigation bar. • Size of the Logo changes when scrolling down. • Animation (with images which appear one by one) & text contents on Animations can be seen. • There is an image at the top of every main page in the navigation bar. • Time table relevant for the current date has displayed. • Tables are included (black, yellowish brown color comparison in tables). • Buttons, icons, etc. will be highlighted with a light color like grey. • Default curser turns into pointer curser when it's on an option. • Options in the pages have connected with the tabs in navigation bar and with separate pages.	• This is a Responsive and Dynamic website. • Loads into the Home page with the functions in its navigation bar. • Header section of all pages consist with Logo, Navigation bar at the center and their contact number at the right (Header background is white in color). • Color theme uses is red. • When cursor is on an image, it will be highlighted. • Attractive images with Parallax Scrolling technique. • Animated images have used. • Buttons & icons with texts on them. • Default curser turns into pointer curser when it's on an option. • Separate links are there. Such as for registering for upcoming events, etc. • Facebook links will be loaded into their Facebook page along with the Facebook Login part. • Texts appear when cursor is on an image and it's linked with a different page.	• This is a Responsive and Dynamic website. • Loads into the Home page with the functions in its navigation bar • The navigation menu with sub categories can be seen through the small three lines in the right top corner of the Home page. • Header section of all pages consist with Logo, Facebook & Instagram icons which direct into their Facebook Page and Instagram Page along with Login and Navigation menu at the left corner. • Color theme uses is yellow and white. • Header & background color changes when scrolling down. • Attractive images with Parallax Scrolling technique. • Buttons & icons with texts on them. • Default curser turns into pointer curser when it's on an option. • Buttons, icons, etc. will be highlighted with a dark color like dark. • Location has displayed in the map. • Instagram, Facebook posts & Videos of their Gym is visible.

	• Tables are included (red and black color comparison in tables) • Have provided a free BMI Calculation part for everyone who access their website. • Forms have included. • Red and Black color combination in faded background images. • Searching with keywords option has given. • Active swiper slides have used to display the equipment, etc. • Common Footer has been used including Logo, Contact details, Navigation bar and Social Media accounts. • Bootstrap framework has been used (Different fonts with CSS Stylesheets).	• Have provided a free BMI Calculation part for everyone who access their website. (Small table mentioning about affection of BMI on people also there). • Forms have included. • Location has displayed in the map. • Common Footer has been used including Logo, Contact details, Navigation bar, categories/menus and Social Media accounts. • Bootstrap framework has been used (Different fonts with CSS Stylesheets).	• A Gallery is there. • YouTube videos about their Gym is visible and can share into twitter like another two platforms and those videos will be played in YouTube after click on it. • Forms have included. • Some YouTube videos and Twitter posts about their gym are visible. • No BMI Calculation section. • Location has displayed in the map. • Common Footer has been used including Contact details, Location with Get Direction option, Navigation bar and Social Media accounts. • Bootstrap framework has been used (Different fonts with CSS Stylesheets).	• Two forms have included. • Have used discs (bullet points), bold letters and attractive one single font color also. • No BMI Calculation section. • Common Footer has been used including Logo, Contact details, Social Media accounts and opening-closing times. • Gallery can be seen. • Bootstrap framework has been used (Different fonts with CSS Stylesheets).
2)Functionality	• First loading page which consists with three sections and buttons will directs into three different pages (one option will be directed into Mansa Fitness Gym Page while other two will be directed into their Shop). • Each tab in the navigation bar has separate pages.	• Each tab in the navigation bar has separate pages. • Buttons like View More, Facilities, View our Membership Options, Contact Us Now will be loaded into different pages. • All pages load instantly. (Within 1 or 2 seconds). Validations • Any of the fields in the BMI Calculation form cannot be empty. If any of the fields is	• Each tab in the navigation bar has separate pages. • Buttons like Upcoming Event, Get in Touch, Get Directions will be loaded into different pages. • All pages load instantly. (Within 1 or 2 seconds). • Can contact them by sending a message. Validations	• Each tab in the navigation menu has separate pages. • Buttons like Upcoming Event, Get in Touch, Get Directions will be loaded into different pages. • Options like FIND MORE will be loaded into different pages where images, paragraphs, etc. contain. • All pages load instantly. (Within 2 or 3 seconds).

	• Buttons like Learn More, View Products, view all Accessories, Find Out More, Join with Us will be loaded into different pages. • All pages load instantly. (Within 1 or 2 seconds).	empty, it will display an error message and ask to refresh the page. • In the form to contact the gym online, any of the fields cannot be empty. If any of the fields are empty, messages will pop up as Please fill in the required fields under each field. Also, a tick should be put where Interested In. Further, a reCAPTCHA is also there to be done to prove that user is not a robot. • If its successfully sent, a message will be displayed a Your message was sent successfully. Thanks.	• In the form to contact the gym, any of the fields cannot be empty. If any of the fields are empty, that relevant field will be highlighted in red color. • If its successfully sent, a green color box will popup.	• Can contact them by sending a message. Validations • In the form to contact the gym, any of the fields cannot be empty. If any of the fields are empty, that relevant field will be highlighted in red color. • When user tries to click Send button without filling the form in that page, it will show two error messages as The field is required under Subject and Your Email fields in the form. • When user completed all fields in the form, user can press Send button and then message will be sent and green color box will be appeared under that.
2.1) Registration	• Visible at the top right corner of all web pages as the header section is common to all pages. • User should be registered at first to Login. • A form is there to be filled which will obtain user details and to create a unique username and password. • Before submitting the form, a Captcha is there to be	• There is no registration function.	• It's necessary for user to Register or Login at first to buy a package. • After click on BUY option Infront of a particular package, a window will pop up asking username and password to login. Or else user can register at that moment as well by clicking Register option. • A form is there to be filled which will obtain user details	• There is no registration function.

	done and must agree with their agreement by putting a tick.		and to create a unique username and password..	
			• Before submitting the form, a Captcha is there to be done	
	Validations		• An email will be received along with a button mentioning Complete Registration and a link to use if that button does not work.	
	• User entering password and confirm passwords and they must be same.			
	• If entered username is already exists, an error message will appear as already exist.		• A form to be appeared asking to fill by providing more information about user and some stuffs.	
	• Any of those fields in the form cannot be empty.		Validations	
	• If any field is empty, a warning message is displayed. That's same even for Captcha and Privacy Policy Agreement.		• User entering password and confirm passwords and they must be same.	
			• Any of those fields in the form cannot be empty.	
			• If any field is empty, those unfilled fields will be highlighted in red color.	
			• When typing on the Password field, until the password becomes fine, it shows a warning as Password must be between 8 and 100 characters	

			long and requires at least one lowercase letter, one uppercase letter, and one number. • Password and Confirm Password should be match. Otherwise, and error notification will be shown. • An error notificationsunder relevant fields if any of the fields are empty or not correct. After filling and submitting the form, it will load into the previous web page where it showed their shop with a message as Successfully Registered.	
2.2) Login	• After successfully registered, can click on the Login and a form will pop up. • If user hasn't registered before login, there's an option even for registering in the login window as well. • Have to give Username, Password and press Login. • In case if the password is forgotten,	• There is no Login function.	• Can Login by giving the username and password. Validations • If entered username and password are incorrect, then an error message will be displayed as Invalid Username or Password! • Any of the fields cannot be empty. If so, it will show an error message.	• There is no Login function.

	there's an option called Forgot Password. (a different window will be appeared to enter the email and do a captcha and submit.) • The password reset link will be sent to the email. • When click on that link, a form will be appeared, user must create a new password and confirm password and submit the form. • User will be automatically redirected into the home page which has the profile of the created account. • Additionally, Login with Facebook Account is also there. User must click on Login, Login With Facebook. Then another window will pop up asking for Facebook login details. Validations • If entered username and password are			

	incorrect, then an error message will be displayed as Invalid Username or Password! • Any of the fields cannot be empty. If so, it will show an error message.			
2.3) Payment Process	• User cannot go for payments if the he/she hasn't registered and logged in. • User can only Add to Cart a product if he/she hasn't registered. • Payment process through cards like Debit/Credit/Visa is not available. (It's something like Ordering) If Buying • Have to add the selected product to cart • Should Proceed to the Payment • A form will be appeared and ask for customer's details such as Address, Name, Phone, Email, etc. • Finally, customer can place the order.	• There are no Payment/Ordering functions.	• User cannot go for payments if the he/she hasn't registered and logged in. • Payment process through cards like Debit/Credit/Visa is available. If Buying • After click on BUY option, user have to provide a Coupon Code and apply if he/she a coupon. Else, can provide card details. • The payment details with Total will be also displayed. • Option called Complete Checkout which is accessible after entering the card details and press Use This Card option can be seen. • Should press the option called Use This Card.	• There are no Payment/Ordering functions.

	Validations • Any of the fields in the form cannot be empty. If not, an error notification will be displayed relevant to the empty field.		• Billing Address can be given. • There are two check boxes to get the user agree for their agreement and to get an email with the Membership Agreement. Validations • When typing the debit card number, letters are not allowed and when user type letters, they will automatically vanish. Only the numbers are allowed to type there. • Session technique has used when the payment is done. A window will appear and provides the user ten seconds mentioning that Session is Going to be Expired! And it asks to continue or to Logout	
3)Security	• It is clear that POST Data Transferring Method has used in this website. The reason for mentioning that is, when user enter details to proceed with the payment, those	• It is clear that POST Data Transferring Method has used in this website. The reason for mentioning that is, when user enter details to the forms, those entered details	• It is clear that POST Data Transferring Method has used in this website. The reason for mentioning that is, when user enter details to proceed with the payment and	• It is clear that POST Data Transferring Method has used in this website. The reason for mentioning that is, when user enter details to the forms, those entered details are

	entered details are not displayed in the URL bar. • A secured website.	are not displayed in the URL bar. • A not secured website.	when submitting forms, those entered details are not displayed in the URL bar. • A secured website.	not displayed in the URL bar. • A not secured website.

1.3-Software Requirement Specification Document

Software Requirement Specification (SRS) for Billing System in Rathnayaka GYMS

Prepared by:
CL/HDCSE/95/43

Date Created:
20/07/2021

1. Introduction

1.1 Purpose

Designing and developing a Database driven Web Site for Rathnayaka GYMS Fitness Center can help in increasing the customer satisfaction about the Rathnayaka GYMS Fitness Center. Mainly, their food supplements and fitness equipment will be promoted and trough that their income will be increased with new customer bases. Moreover, viewing and searching for packages, food supplements and fitness equipment, contacting Rathnayaka GYM online, buying of food supplements and fitness equipment via online and placing orders from their online store are facilitated for the users or the customers of Rathnayaka GYMS Fitness Centers'.

It provides environment to maintain the customer details starting from getting new connection, login or registering, placing orders, payments etc. People who are going to use this web site will be:
- User type 1-Administrator of the Rathnayaka GYM
- User type 2-Customers

Billing is done by collection of payments of supplements, packages, equipment and there by asking customers to fill a form. Proposed system will provide authentication to avoid unauthorized access. User Registration, Login and Payment process will be highly secured. So, there won't any harm cause for the Database of the Rathnayaka Gym. And through that, customers trust worthy will be grown about the Rathnayaka GYM.

The purpose of this Software Requirements Specification document is to maintain all the functions and the specifications of 'Rathnayaka GYMS Fitness Center' Web Site. Besides it contains detailed descriptions of all the requirements specified. It will explain the purpose and

features of the web site, the interfaces of the system, what each web pages will do, and the constraints under which it must operate.

1.2 Document Conventions

In this document I used Times New Roman font style and font size as 12, headings are bold and bullet points are used in order to prepare this document more effective.

1.3 Intended Audience and Reading Suggestions

This intended audience of this document includes staff of the Rathnayaka GYMS. In staff also, this will be intended to the administrator. The rest of this SRS contains overall description, system feature, external interface requirements, other non-functional requirements and other requirements. Programmers, developers, database engineers, testers, etc. are few example readers of this system requirement specification document. Those readers should be able to refer this system requirement specification document and the design, the implementation, the testing of the web site according to requirements. And also, to test the functions of the system.

1.4 Project Scope

The purpose of this web site is to build and develop a web application for Rathnayaka GYMS fitness center, which make it easier the administrator's job by reducing maintaining bill books and books which include package details, food supplement details and equipment details, user details and so on. This web application becomes a service for customers as it less consumes customers' valuable time.

Features are in the scope of the web site are:

- View and Search Fitness Package Details
- View and Search Food Supplement Details
- View and Search Fitness Equipment Details
- User Login
- User Registration
- Contacting Rathnayaka GYM
- Buying of Supplements and Equipment by placing orders
- Adding Products to Cart
- Validations
- Authentication level (admin, customers)

1.5 References

https://uccs.edu/Documents/tboult/srs.doc

2. Overall Description

2.1 Product Perspective

The web site will allow to monitor software specification documents related to sales, stocks, packages, users at any time which are currently done in manually and this will minimize the causing of errors too. Thus, this project of building and developing web site for Rathnayaka GYM is used by two users and they are administrator of the gym and customers. The overall control of this billing system is having only with administrator. Users also can log in to the Rathnayaka GYMS online store by the web site and perform certain functions which are relevant just like adding to cart. Simply, Administrator have the fullest authorization to view all package details, product details, search products and packages, delete users, update products and packages, insert new products and packages, etc. In this web site, the admin should have a separate Username, Password and customers also should have separate Username and Password in order to log in and perform relevant tasks. It should run on any platform. The web site for Rathynayaka GYMS will be user-friendly, and effective software application which will satisfy all the above intended purposes of the Rathnayaka GYMS.

2.2 Product Functions

2.2.1   Validations of the Login Credentials

Initializes the system for Admin/Customer Authentication step by getting the unique login credential assigned by users whereas admin username and password will be created by the developers uniquely. Admin will have a separate login with a separate table inside the database. Fields inside both the customer and admin login interfaces shouldn't be empty and error message should be displayed. And if login credentials do not match, an error message should be displayed.

2.2.2   Validations of the Registration

Admin should not have the ability to create new users or new admins. Customers can fill a form to get registered. Any of the fields shouldn't be empty. Password and Confirm Password should match. Then only user registration will be successful.

2.2.3   View fitness package details, supplement details and equipment details

The website allows user to view fitness packages, view food supplements and view fitness equipment which are available in the gym and only after log in, user can buy products by placing orders.

NOTE: Food Supplements and Fitness Equipment are taken into one web page called Products!

2.2.4   Payment by placing an order

   When doing the payment, it would display payment id, customer's name, card details, address, contact number, etc.

2.3 User Characteristics

   The admin of the Rathnayaka GYM should be familiar with the e-commerce web sites. Admin should be good at updating records, etc. and should know basic stuffs in computing and calculations.

2.4 Operating Environment

Any OS will be used in operating this web site.

2.5 Design and Implementation Constraints
- Hardware Limitations:

Processor ──────────► Intel core i3 or i5
RAM ──────────► 16GB
VGA ──────────► 2 GB to 8GB
Hard Disk ──────────► 1TB
Optical Drive ──────────► SSD or DVD ROM
Operating System ──────────► Any OS
Software ──────────► Visual Studio, Dream Weaver, Sublime Text, Notepad ++
Database ──────────► MySQL Database
Server ──────────► Xampp Server or Wamp Server
Basic Requirements ──────────► Laptop, Any Monitor, Mouse, Keyboard, Printer like basic stuffs

- Interfaces/Pages:
Different interfaces have used with the same color theme.

- Security Considerations:
The password and Username are the security functions that are there to be considered here. The data protection will be done by the backups.

- Criticality of the Application: The servers should be available during 365 days.

3. Specific Requirements

3.1 Functional Requirements

Simply, in here functional requirements include what the web site does and means about the web site features.

3.1.1 General Functions

3.1.1.1 Any user can fill the form and contact Rathnayaka GYM online

3.1.1.2 Any user can view available products and packages

3.1.1.3 Any user can search for packages and products

3.1.2 Initializations/ Providing Login Credentials

3.1.2.1 Admin can log into the Admin Dashboard by providing relevant login credential.

3.1.2.2 Customers can register first and based on given username and password; they can log into the Rathnayaka Gyms online products store with cart option.

3.1.3 Authorization/Login

3.1.3.1 Administrator's Login- By giving the administrator's Username and Password the administrator can login into the Admin Dashboard and thereby manage the fitness package, food supplement and equipment details.

3.1.3.2 Customer's Login- By giving the customer Username and Password created during the registration, the customer can login into the online store of the Rathnayaka Gyms where their products can be seen and thereby engage in adding products to cart and paying by placing an order.

3.1.3.3 If Customer's or Admin's Authorization failed- Remind that the user has typed the wrong password and let the user exit the system.

3.1.4 Payment by placing an order

3.1.4.1 Check for the food supplements which are bought, selected fitness packages, check for the fitness equipment which are bought and add the ID/Code of those selected items/packages to the bill along with their prices.

3.1.4.2 Check the total items (number of food supplements and number of fitness equipment) bought and multiply it by the quantity

3.1.4.3 Calculate the total charges of the food supplement items bought (if selected to buy), fitness equipment bought (if selected to buy) and also add charges of fitness packages if selected.

3.1.4.4 Finally calculate the final total amount to be paid by the customer.

3.1.5 Payment Form

3.1.5	Property	Should display or not	Explanation
3.1.5.1	Payment ID	Yes	Should be hidden from the user
3.1.5.2	Customer Name	Yes	Customer name should be taken
3.1.5.3	Food Supplement	Yes	Selected food supplements along with the price (can be hidden or not)
3.1.2.4	Fitness Equipment	Yes	Selected fitness equipment along with the price (can be hidden or not)
3.1.5.5	Quantity	Yes	After selecting the food supplement or the fitness equipment, quantity of the bought item(s) should be entered.
3.1.5.6	Total Amount	Yes	All the total values of the food items and equipment bought (after multiplying with the quantity) should be displayed.
3.1.5.6	Card Details	Yes	Card Type, Card Number, Expiry Date, etc.

3.2 Non-Functional Requirement

Simply in here, Non-functional requirements mean requirements that can be used to describe operation of the Web Site. Not the specific behaviors or what system does. Execution qualities, like security and usability, are observable at run time of the web site. Basically, the static part.

3.2.1 Performance

It's expected the website to be accessible 365 days (every time) and because of that the server also should be available all the time. This web site will be implemented with Html, Php,

CSS using the Visual Studio/Dream Weaver/ Sublime Text Integrated Development Environment. Procedures like login, registration, contacting and payment, viewing and searching should be done quickly within 3 to 5 seconds with a minimum time duration. This System should run-on 32-bit OS or 64-bit OS.

3.2.2 Availability

This website should be available within all the hours and days (every time).

3.2.3 Reliability

Here, the confidentiality of the data is highly considered. The access for log into this system must have only for administrator to the admin dashboard. Only the admin should have the access to each and every function in this system while the customer has many functions like add to cart, login, registration, etc. Not needed to wait for a long time to login.

3.2.4 Security

The access to the login of the website will be restricted to the authorized users who are identified by a valid username and password. The users can login to the system using the username and password and access the functions based on the role which they are assigned.

3.2.5 Safety Requirements

An error message should be displayed when a user entered incorrect login credential, username/password and should provide the user to exit.

3.2.6 Maintenance

Maintaining, simply which means using of the web site is easier and cost for maintenance is low.

1.4-UI Design and Site Map

1.4.1-Home Page

Logo

Home | About Us | Fitness Packages | Products | Contact Us | Login/Register | Admin Login

Welcome to Rathnayaka Gym

Why Rathnayaka Fitness Centre fits for you ?

Read More

Schedule

Day	Opening and	No of
Monday	9-9	5
Tuesday	9-9	5
Wednes	9-9	4
Thursda	9-9	3
Friday	9-9	5
Monday	8-11	7
Saturday	8-11	7

Logo

Home
About Us
Fitness Packages
Products
Contact Us
Login/Register
Admin Login

Item One
Item Two
Item Three

Copywrite

The above design shows how the home page of the Rathnayaka GYMS has designed. The whole designing part of the home page has developed using this above interface design. First navigation bar and the logo has displayed. Then an image has displayed. After that an introduction about the Rathnayaka GYMS has given. Buttons also have used as links. Then the schedule of the Rathnayaka GYMS has included a table. Finally, the footer is visible with the links of the navigation bar, Address and a small description about the GYM.

1.4.2-About Us Page

Logo

About Us

Here are our Services

Fitness Packages

▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪▪ ▪▪▪ ▪▪▪ ▪▪▪▪▪▪▪ ▪▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪

[View Packages]

Food Supplements

▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪ ▪▪▪▪▪▪▪ ▪▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪

[View Supplements]

Fitness Equipments

▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪ ▪▪▪▪▪▪▪ ▪▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪

[View Equipments]

Gallery

Logo

▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪ ▪▪▪▪▪▪▪▪▪▪▪▪ ▪▪▪▪▪ ▪▪▪ ▪▪▪ ▪▪▪▪▪▪▪

Item One
Item Two
Item Three
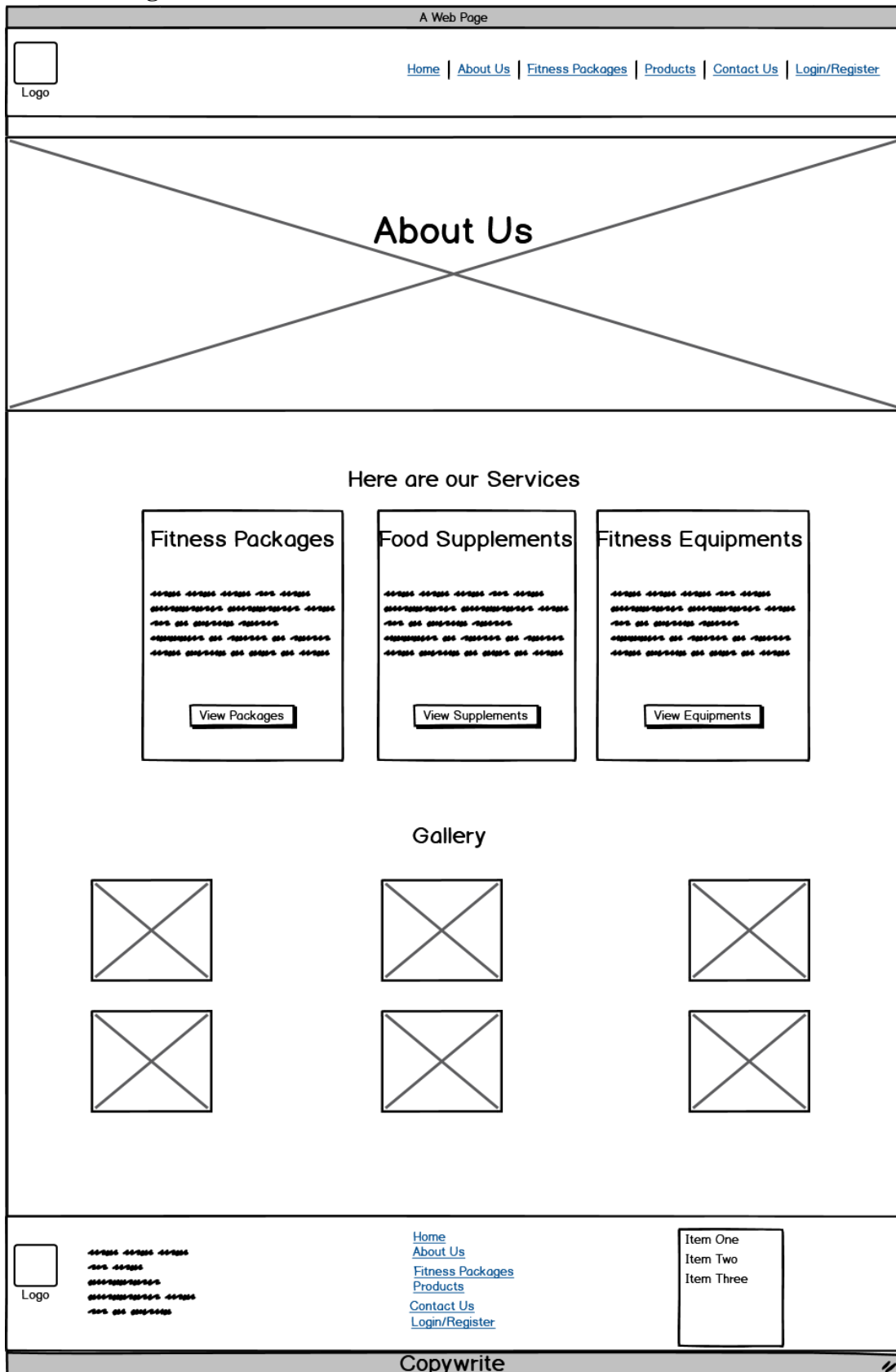
The above design shows the About Us page of the Rathayaka GYMS web application. The same top part has included with navigation and logo. As usual, an image also has included then three linked buttons have used. Further their gallery has included. Finally, the same footer has included.

1.4.3-Fitness Packages Page

Logo

Home | About Us | Fitness Packages | Products | Contact Us | Login/Register

Fitness Packages

Enter the value you want to search about a package detail inside the following searching box and press on the search button below :

🔍 search

Search

Package ID	Package Name	Package Price
1\Individual Male	LKR 23	800
2\Individual Female	LKR 19	800
3\Student	LKR 26	000
4\Family	LKR 39	500
5\Monthly	LKR 6000	

Logo

Home
About Us
Fitness Packages
Products
Contact Us
Login/Register

Item One
Item Two
Item Three

The above design structure depicts the complete design of the Fitness Packages page. There user can search for Fitness Packages as well. Further, all the package details inside the database has shown with a table in this page.

1.4.4-Products Page

Logo

Products

Welcome to Rathnayaka Gyms Product Store

Note that you can only view our products from here...If you want to buy these products, Login/Register first.

Enter the value you want to search about a product detail inside the following searching box and press on the search button below :

🔍 search

Search

Logo

Home
About Us
Fitness Packages
Products
Contact Us
Login/Register

Item One
Item Two
Item Three

Copywrite

The above UI design has designed for the products page of the Rathnayaka GYMS website. There also the same navigation bar and the logo is included. Then a searching bar to search available products. And also available products are displayed with the image. Finally, the same footer has included.

1.4.5-Contact Us Page

Logo

Contact Us

Now you can Contact Us

This is the simplest, secured and fastest way to contact Rathnayaka GYM online

First Name

Last Name

Email

Message

Submit

Logo

Home
About Us
Fitness Packages
Products
Contact Us
Login/Register

Item One
Item Two
Item Three

Copywrite

When it come to the above design, that has built for the Contact Us page of the Rathnayaka GYM. There, user can contact Rathnayaka GYM by filling that form. Php validations have used for that form.

1.4.6- User Login Page

https://

Logo

Home | About Us | Fitness Packages | Products | Contact Us | Login/Register

Login

First Name [   ]

Last Name [   ]

[Login]

Do you want to Register?   Register

Logo

Home
About Us
Fitness Packages
Products
Contact Us
Login/Register

Item One
Item Two
Item Three

Copywrite

Above design is designed for the general customers. They should log into the website in order to buy products (Equipment and Supplements). If customer hasn't registered, he/she can click on register and register themselves. For login, database have connected.

1.4.7-User Register Page

https://

Logo

Home | About Us | Fitness Packages | Products | Contact Us | Login/Register

Register

Create an account from here successfully to Login !

Username

Password

Confirm Password

Register

Have you already created an account? Login

Logo

Home
About Us
Fitness Packages
Products
Contact Us
Login/Register

Item One
Item Two
Item Three

Copywrite
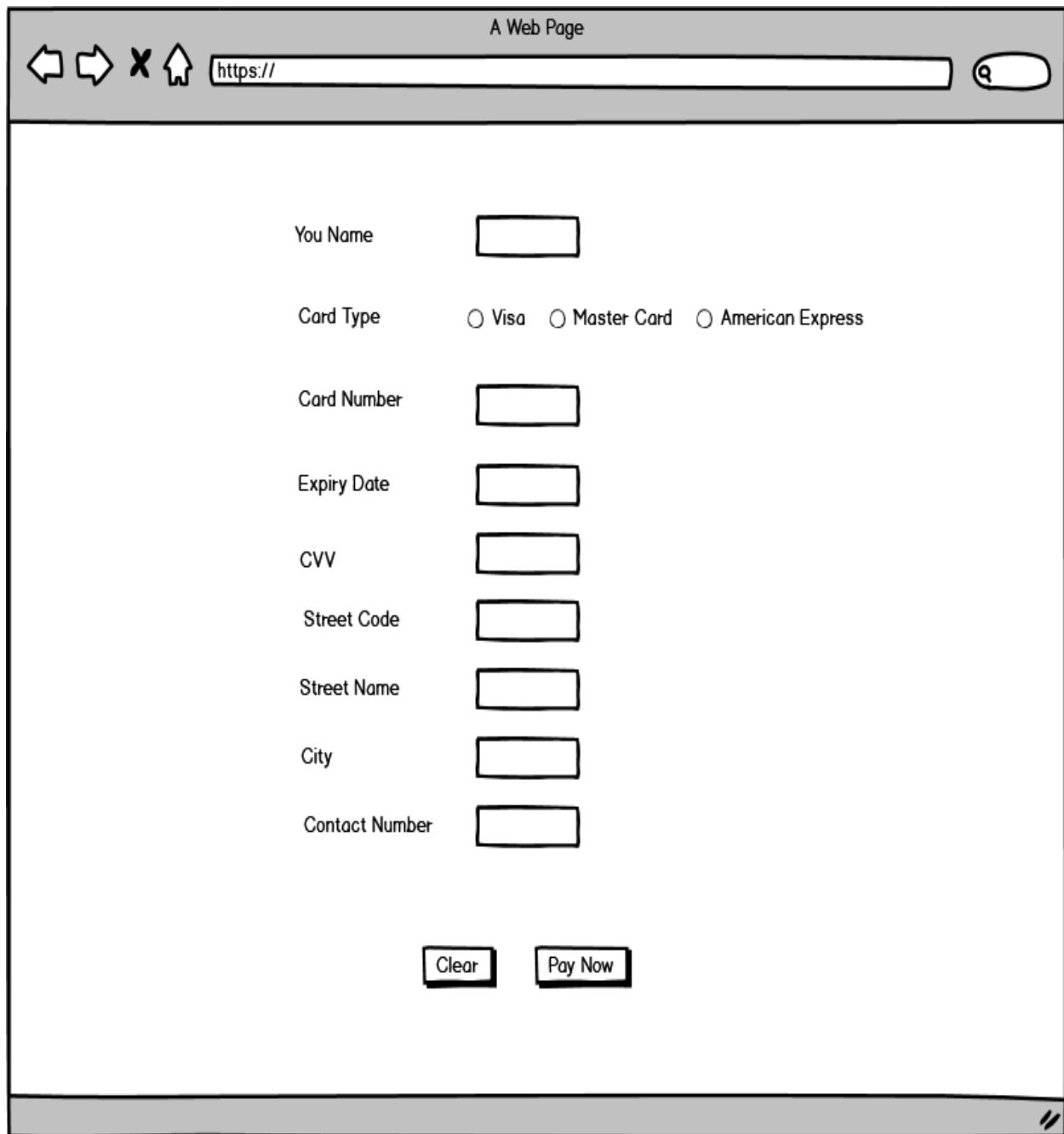
As mentioned above, user should register first in order to log into the web site and buy products by placing orders. It's also a form and it has connected with the database in order to insert customer registration data.

1.4.8-Products Cart

https://

You are in Rathnayaka Gyms Online Products Store

Welcome for our online products store - (logged user's username)

logout

Product Cart Details

Product Name	Quantity	Product Price	Total Price	Removev

Products Cart

1

Add to Cart

1

Add to Cart

1

Add to Cart

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Add to Cart

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Add to Cart

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Add to Cart

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Add to Cart

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Add to Cart

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Add to Cart

Product Cart is one of the core parts in this web site of Rathnayaka GYMS. After user successfully logged into the web site only, he/she can buy products by adding to cart. Session has included in here in order to save and display customer username and log out option. Customer adding all products will be displayed in the table which is under the topic of Product Cart Details. Customer entering quantity will be multiplied with the price and the total and subtotal will be displayed. If customer is satisfied with the total amount, customer can press on Buy button and provide payment details.

1.4.9-Payment

A Web Page

https://

You Name

Card Type   ○ Visa   ○ Master Card   ○ American Express

Card Number

Expiry Date

CVV

Street Code
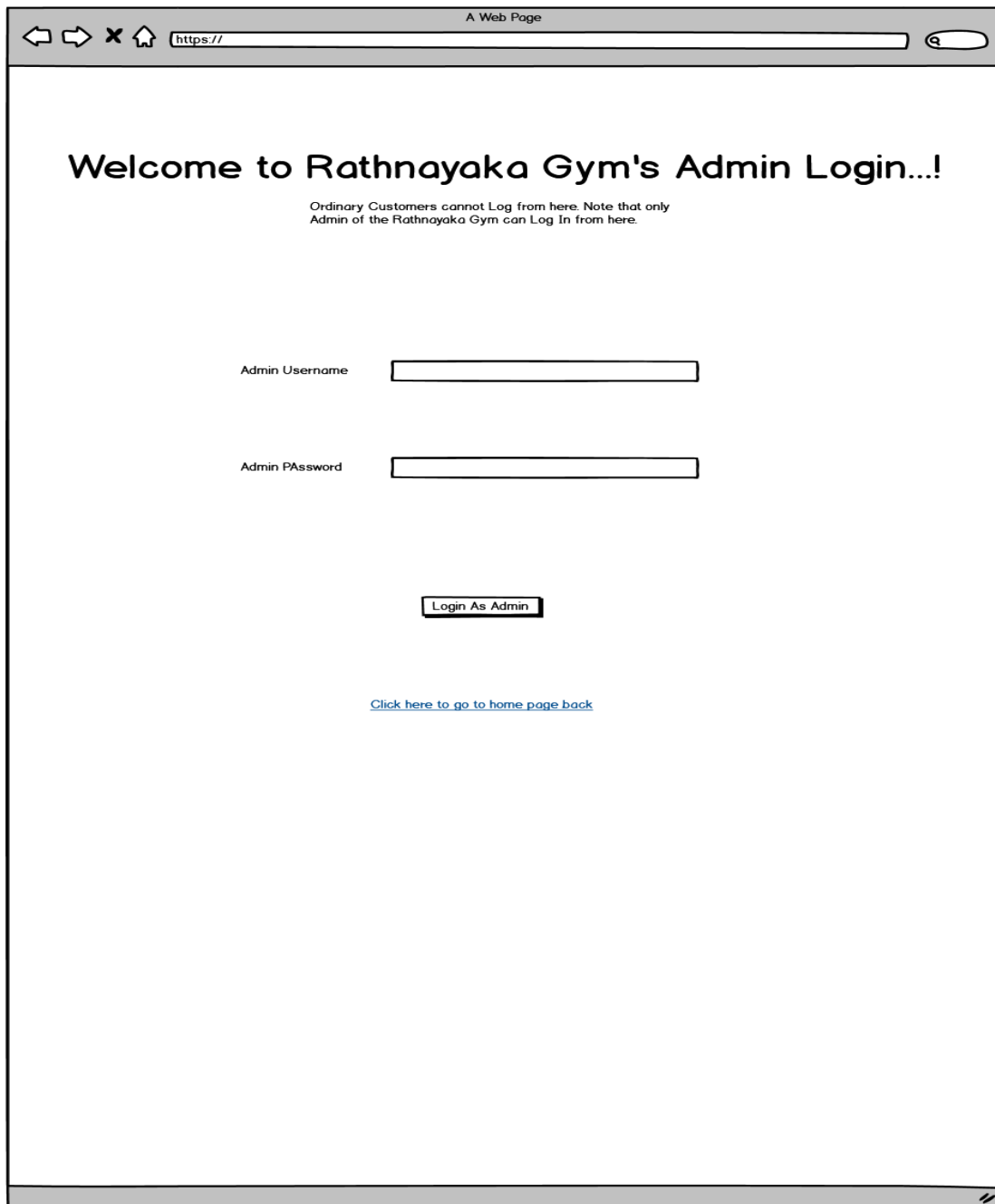
Street Name

City

Contact Number

Clear   Pay Now

This is the interface designed to obtain payment details from customer to place an order. If customer provide all the fields displayed in the above UI, a message will pop up mentioning whether the payment is successful or not.

1.5.0-Admin Login Page

Above interface is the login interface for Admin of the Rathnayaka GYMS. Admin can use login credentials which are given him to log into the we application as the Admin. So, their Admin can perform several functions. Admin can update, insert, delete products, fitness packages and users who are already logged in.

1.5.1-Admin Dashboard Page

https://

Welcome..RATHNAYAKA GYMS Admin Dashboard !

Click to view Product Table Menu

Click to view Package Table Menu

Click to delete users

Click here to log out
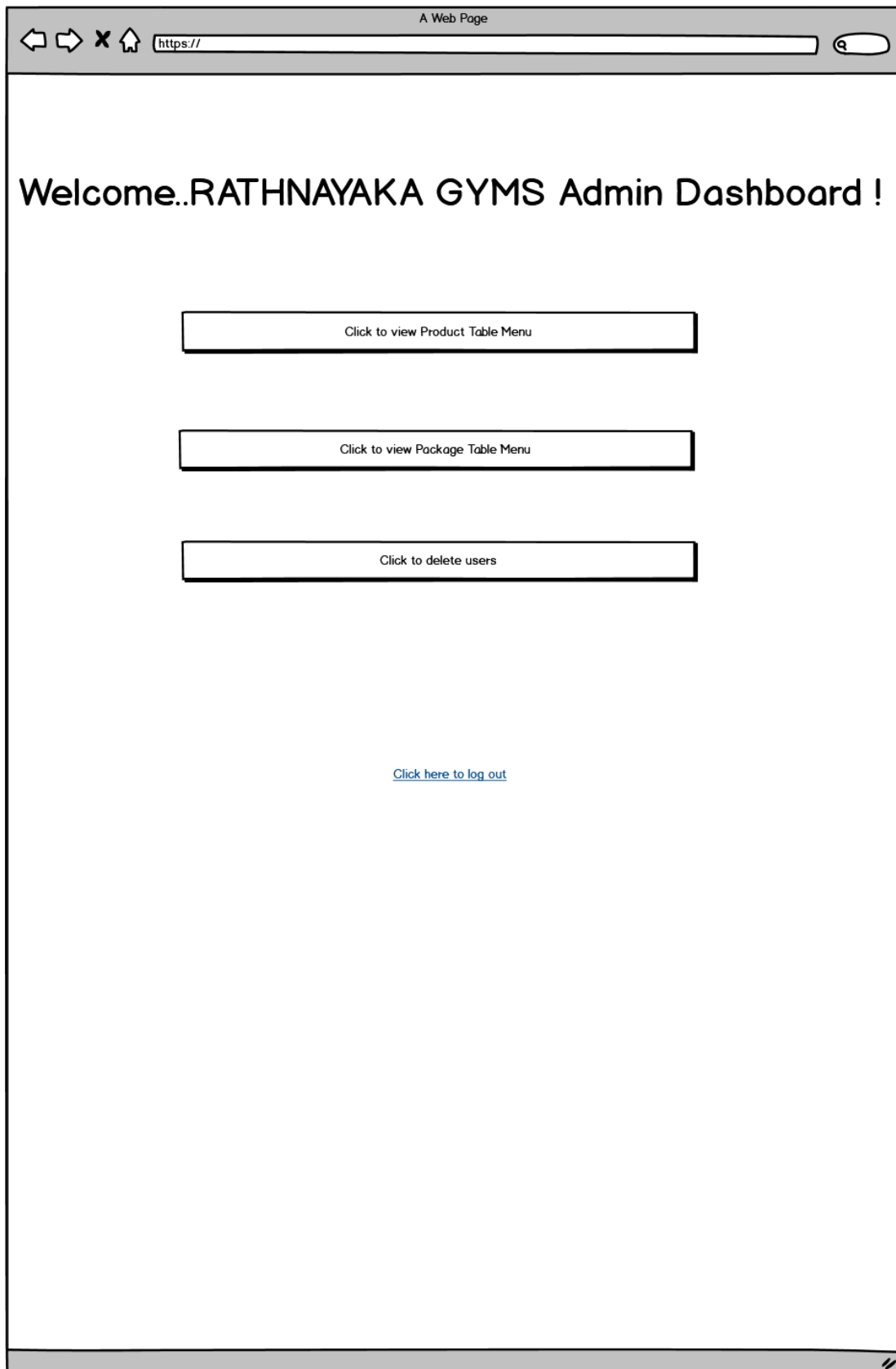
After logging in, admin can see this admin dashboard interface which has designed above. There are three linked buttons and a link to logout or else to go back to the home page of the web application. All above three buttons will direct user into three different pages which are uploaded below.

1.5.2-Product Menu Table Page

Admin! This is the Product Table Menu

Where you can add,update and delete products

Product Name	Product	Quan	Product Type ID	Add New	Update	Dele		
DUMBLE	2000	100	Images/dumble.jpg	1	ADD	UPD		DEL
BARBELL	1000	30	Images/barbell.jpg	1	ADD	UPD		DEL
ADJUSTABLE	5000	10	Images/adjustable	1	ADD	UPD	DEL	
ELLPTICAL	35000	5	Images/elipticalma	1	ADD	UPD	DEL	
STABILITY BALL	3000	15	Images/stabball.jp	1	ADD	UPD	DEL	
LEATHER GLOVES	1500	40	Images/leatherglo	1	ADD	UPD	DEL	
SLIMMING BELT	2500	35	Images/slimmingb	1	ADD	UPD	DEL	
PLATINUM 100%	6000	30		Images/platinu	2	ADD	UPD	DEL
BEAST	4000		20	Images/beasta	2	ADD	UPD	DEL
BEAST SUPER	7000	10	Images/beastsupe	2	ADD	UPD	DEL	

Click here to Admin Dashboard

The above interface will be displayed when admin clicks on the very first button which was in the admin dashboard. From here, admin have the power to update, insert and delete products which are saved in the Rathnayaka GYMS Database.

1.5.3-Product Insertion Page

Add New Record To The Product Table Here

Enter product name

LKR

Select product quantity

Images/

Choose the Product Type(1-Equipment / 2-Supplement): 1 ▾

Insert

Back To Product Records Table

The above design shows the product insertion form where admin can add new products to the database. Then they will be displayed to the user as well.

1.5.4-Product Update Page

A Web Page

https://

Update Exisitng Records In The Product Table

Product ID	Product Name	Product Price	Quantity	Image	Product Type ID	Update
1	DUMBLE	2000	100	Images/dumble.jpg	1	Update
2	BARBELL	1000	30	Images/barbell.jpg	1	Update
3	STABILITY BALL	3000	15	Images/stabball.jpg	1	Update

Back To Product Records Table
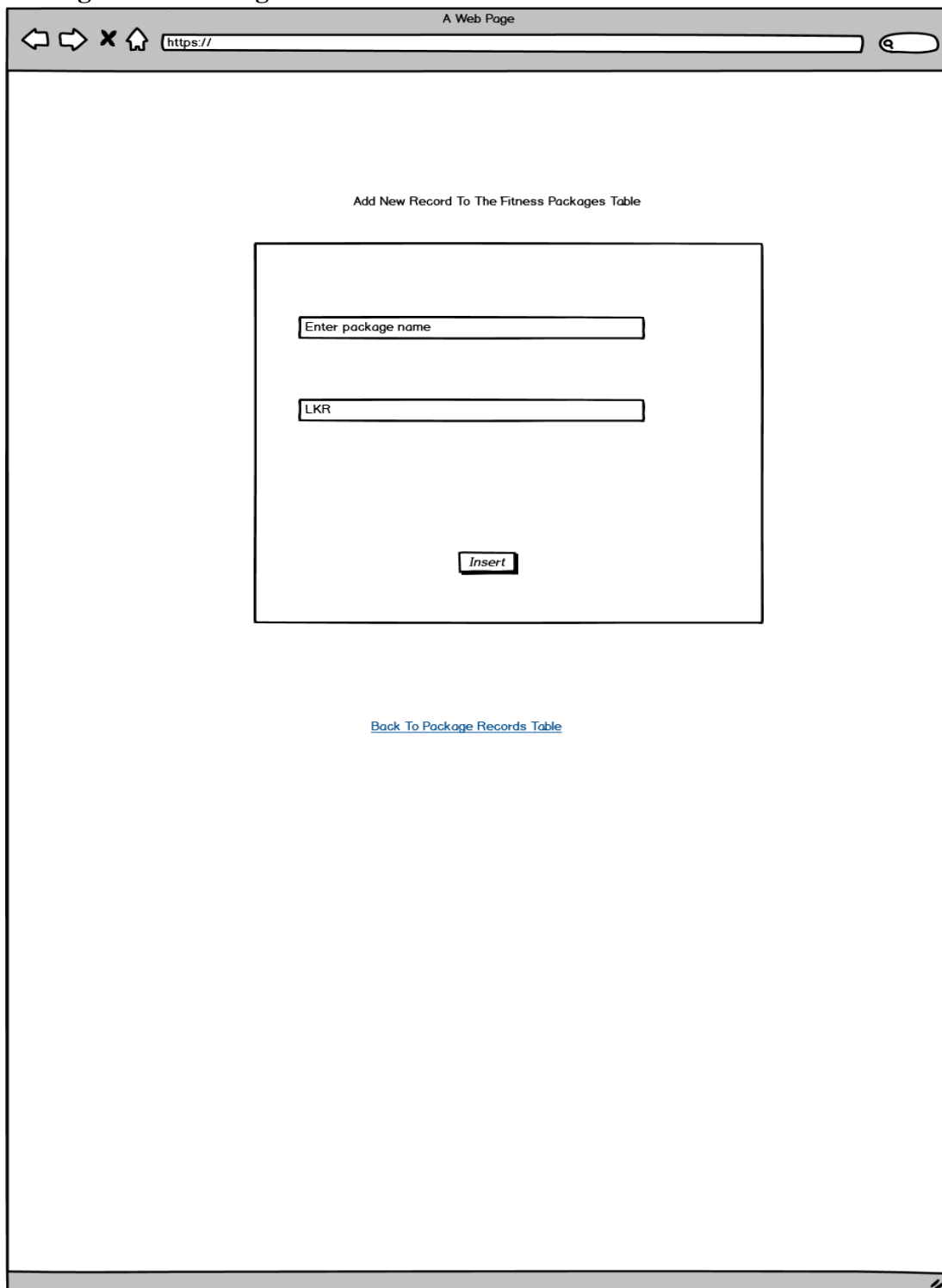
This above design structure is the update function having interface. So admin can update existing products from here.

1.5.5-Package Menu Table Page

A Web Page

https://

Admin! This is the Package Table Menu

Where you can add,update and delete packages

Package Name	PackagePrice	Add New	Update	Delete	
Individual Male	LKR 23	800	ADD	UPDATE	DELETE
Individual Female	LKR 19	800	ADD	UPDATE	DELETE
Student	LKR 16	000	ADD	UPDATE	DELETE

Click here to Admin Dashboard
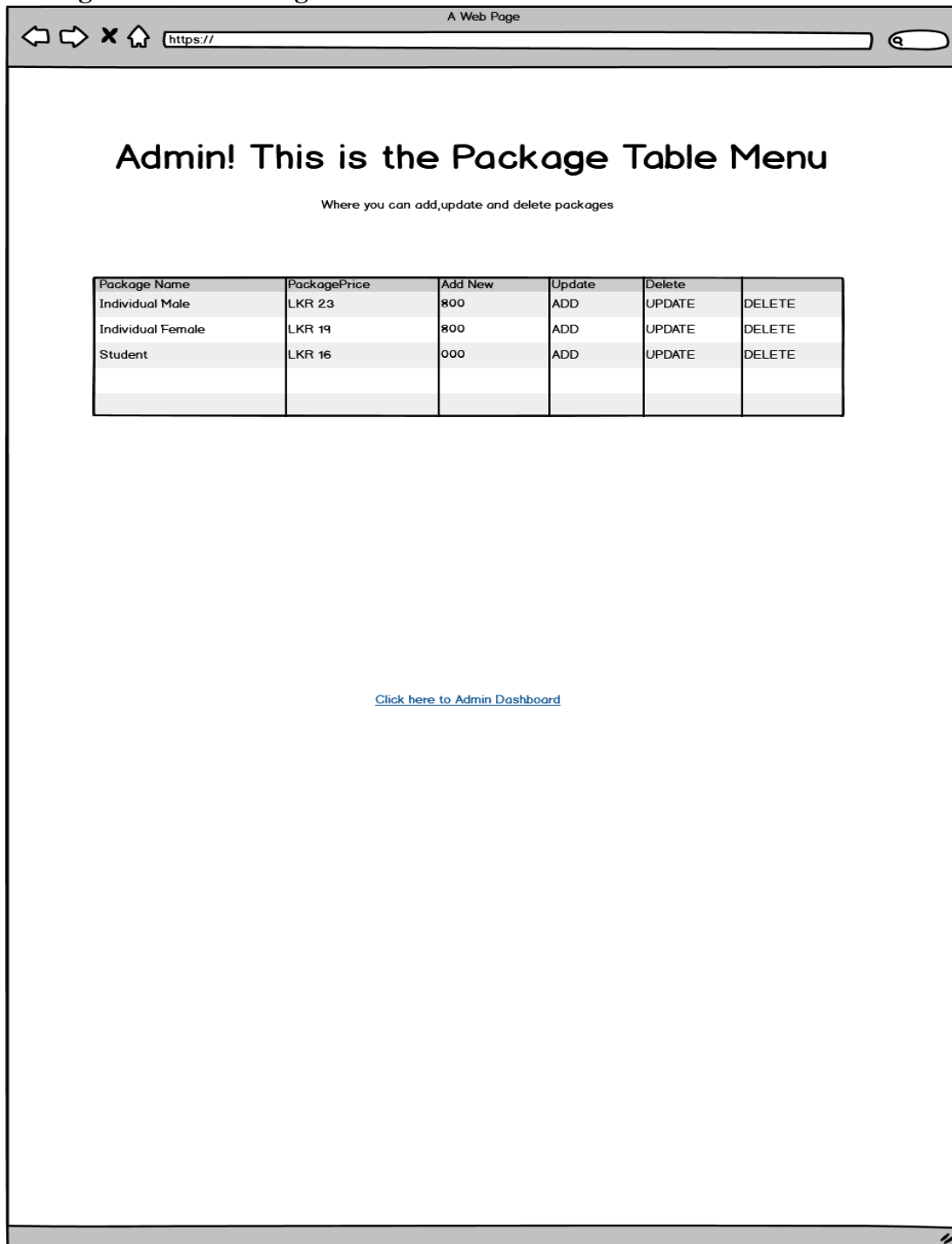
When admin click on the second button which was in the admin dashboard interface, this
interface will be displayed. From here, admin can add, delete and insert packages which are
inserted inside the Rathnayaka GYMS Database.

1.5.6-Package Insertion Page

From here, admin can insert new package records to the database just by providing the package name and the price. So, it will be inserted into the database table as a new record.

1.5.7-Package Update Page

https://

Update Exisitng Records In The PackageTable

Package ID	Package Name	PackagePrice	Update	
1	Individual Male	LKR23	800	Update
2	Individual Female	LKR19	800	Update
3	Student	LKR16	000	Update
4	Family	LKR39	500	Update

Back To Package Records Table

As shown in the above interface, user can update existing fitness package records in the database. Or else admin has the chance to move back the Package Records Table.

1.5.8-Admin User Deletion Page

A Web Page

https://

Admin! This is the Users Table Menu
Where you can add,update and delete users

Username	Password	Delete
Chamath	123	DELETE
Shyamal	456	DELETE
Ishan	258	DELETE

Click here to Admin Dashboard
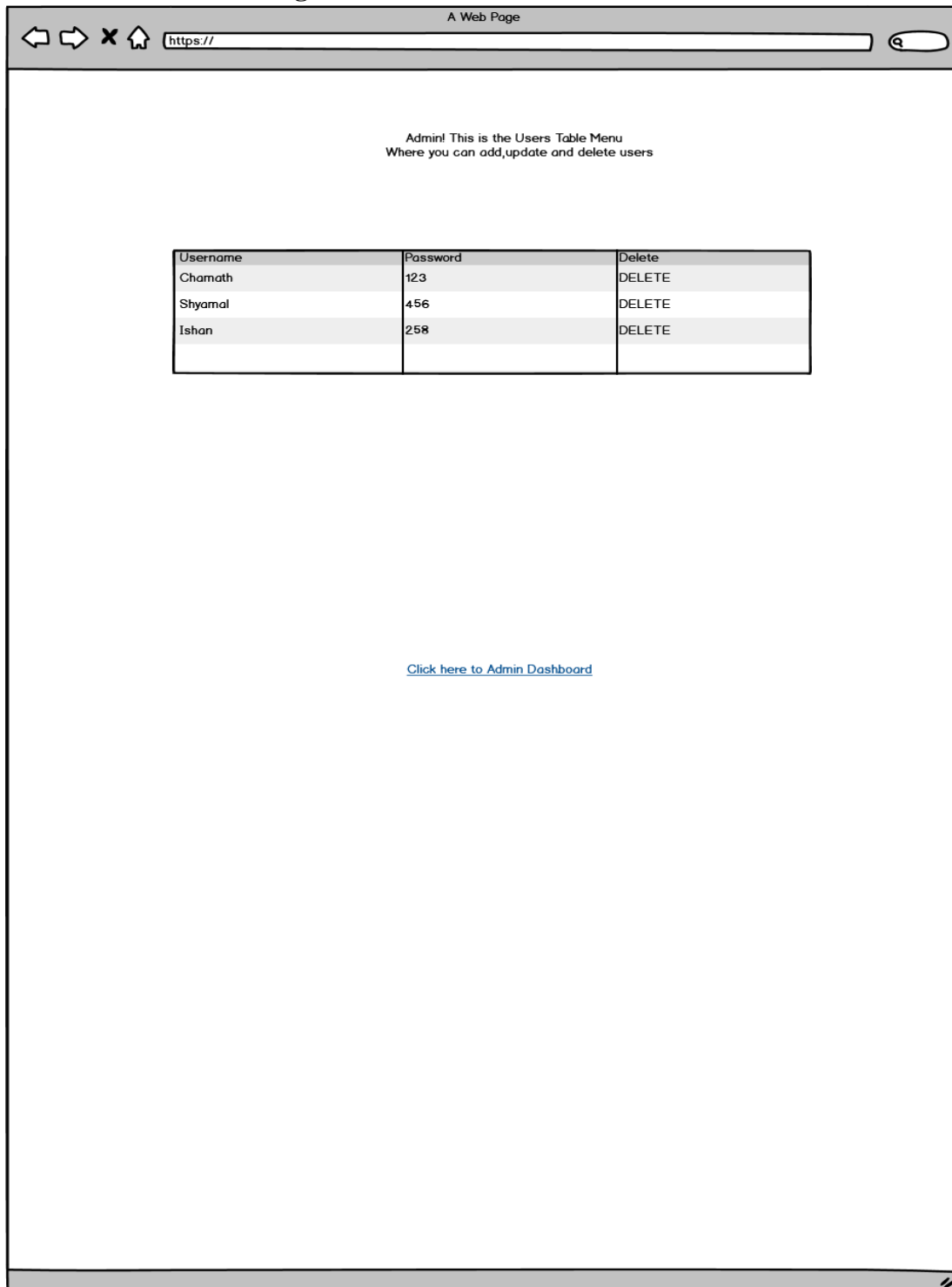
Above interface shows the logged user data for the admin. If any problem occurred, admin can delete that particular user from their database just by one tap.

1.5-Flow Charts

1.5.1-For Registration

```
                    ┌─────────────┐
                    │    Start    │
                    └─────────────┘
                           │
                           ▼
        ╱────────────────────────────────────────╲
        │ Input Username. Password & Confirm Password │
        ╲────────────────────────────────────────╱
                           │
                           ▼
                  ◇ If (empty                          ┌──────────────────┐
                  (username or Password    YES        │ Display fields can't be │
                  or Confirm Password ))  ─────────────▶│      blank !      │
                           ◇                           └──────────────────┘
                           │ NO
                           ▼
                  ◇ If Password                        ┌──────────────────────┐
                       =         NO                    │ Display Password and   │
                  Confirm Password ───────────────────▶│ Confirm Password should │
                           ◇                           │        match !         │
                           │ YES                       └──────────────────────┘
                           ▼
                  ┌──────────────────┐
                  │ Display Login Page │
                  └──────────────────┘
                           │
                           ▼
                    ┌─────────────┐
                    │     End     │
                    └─────────────┘
```
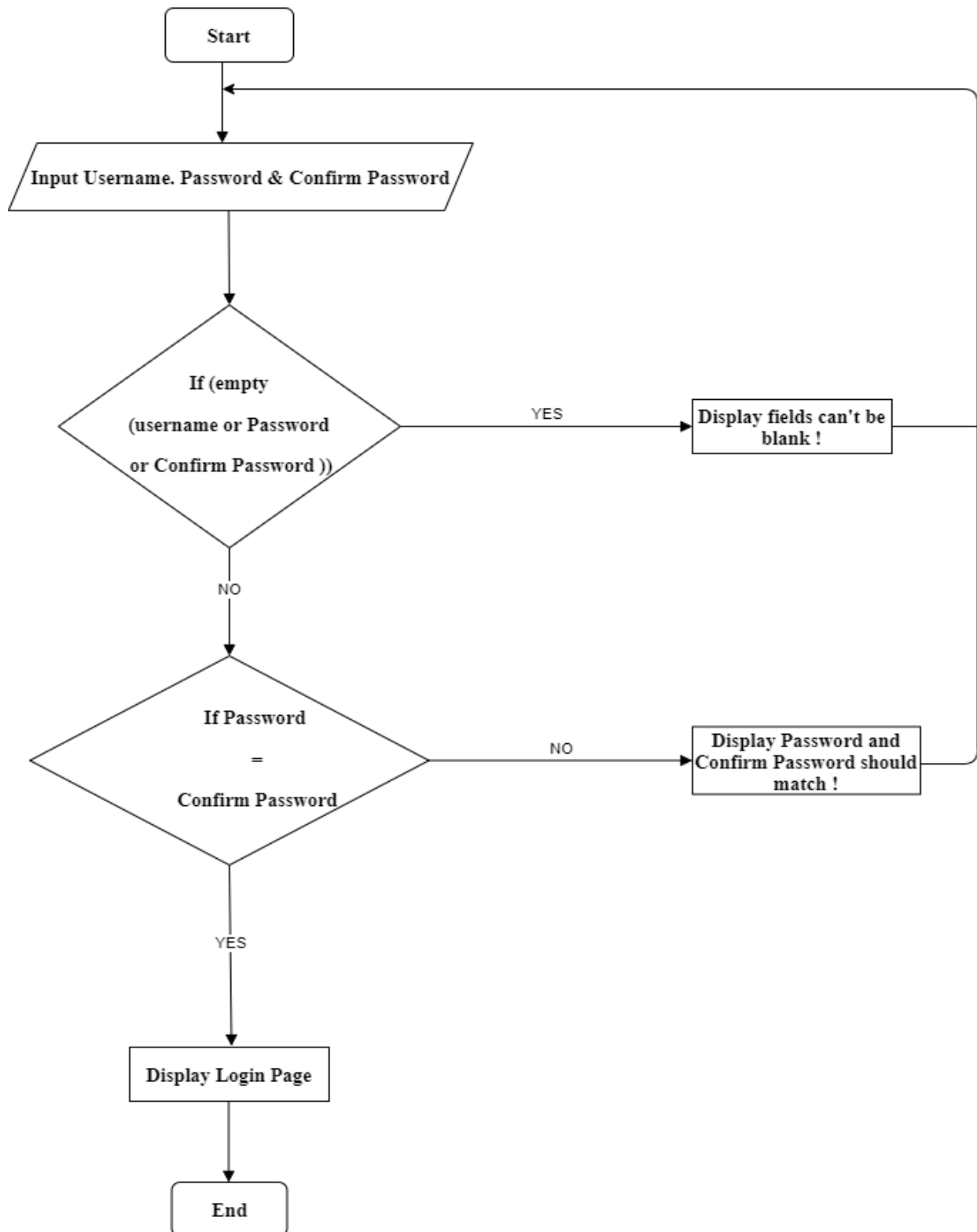
In the above user registration flowchart diagram, first a username, password and confirm password will be obtained from the user. If user enter accurate data for them, user will be successfully registered inside the Rathnayaka GYMS database. And then user will be directed into the Login Page. If user inserted password and confirm password are doesn't match and fields are empty, user has to follow the same procedure.

1.5.2-For Login
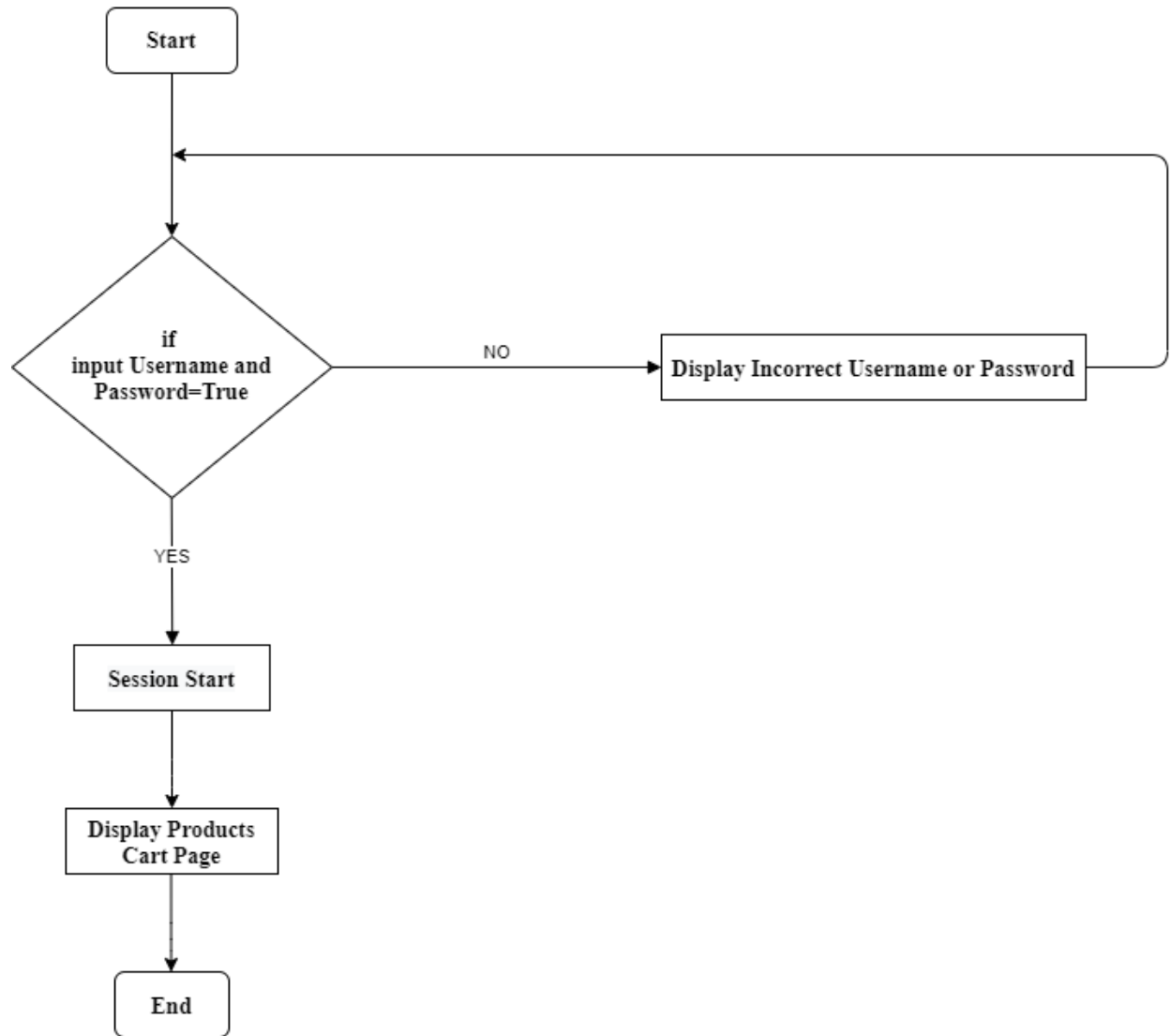
Above diagram depicts the user login function. To log in, user should be registered at first. Then by providing that username and password, user can log in. If user provide correct login credentials, session will be started and user will be directed into the Products Cart page where user can pay by placing an order. Otherwise, user have to follow the same procedure until entering the correct login credentials.
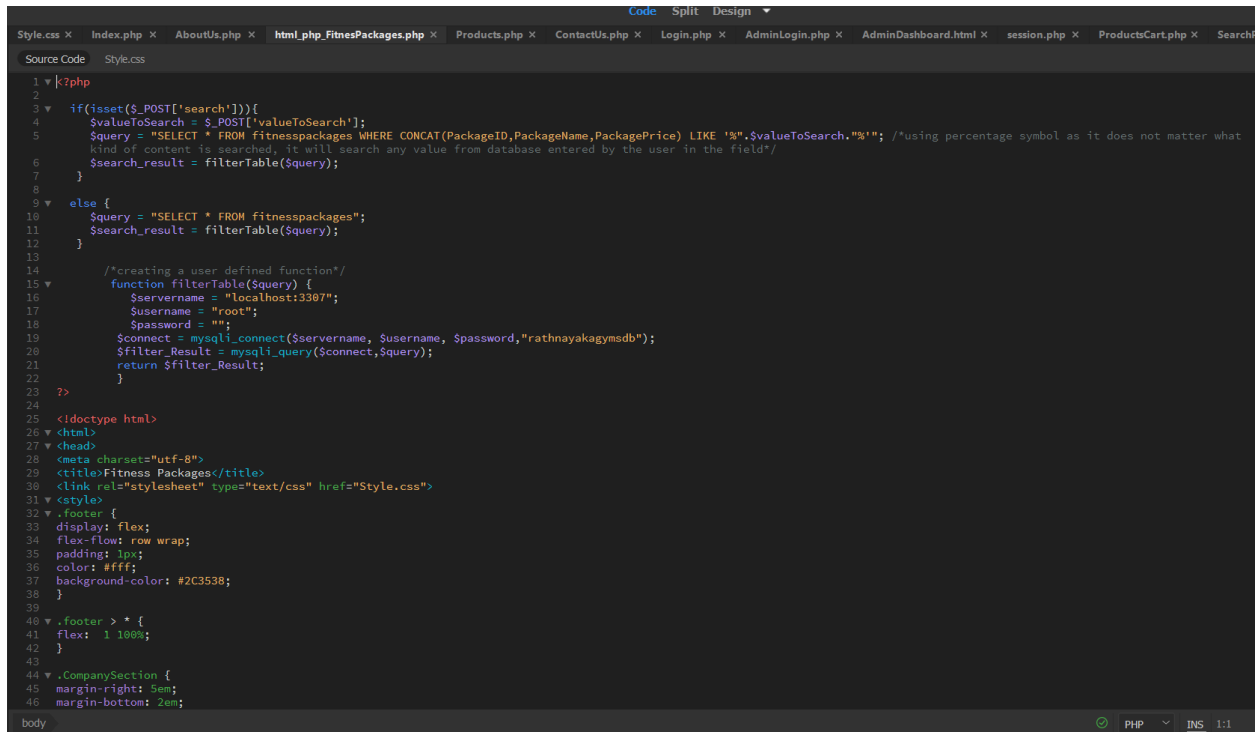
1.5.3-For Products Cart
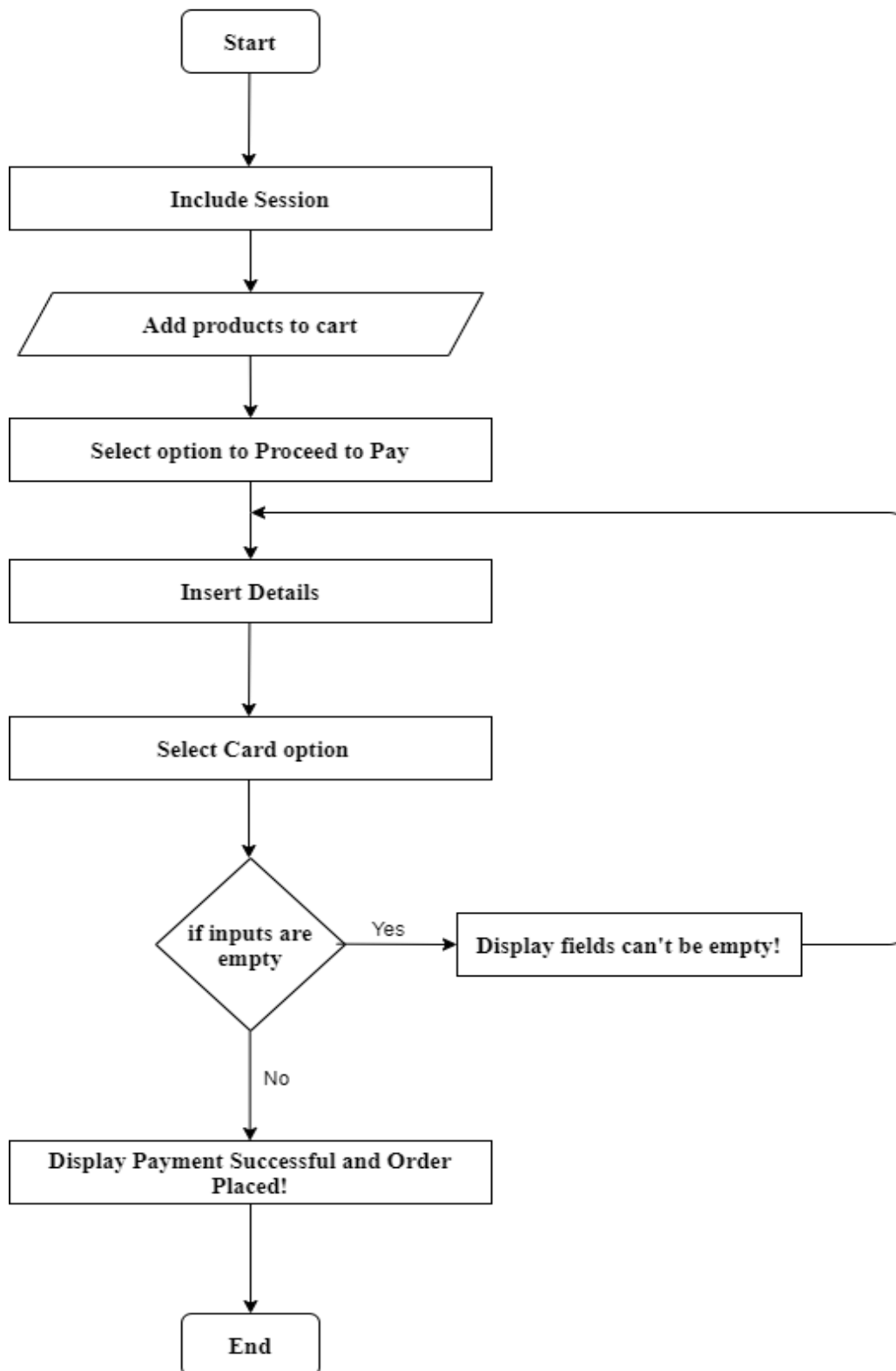
This depicts the procedure happen when user logged in successfully. User can add products to cart as mentioned earlier and provide payment details and do the payment by placing an order.

Task 2-Few Important Validation Coding Parts

2.1-Search Fitness Packages

The above php code has used in order fulfil the function of searching fitness equipment details. At first the database connection has made. Then the MySQL 'SELECT' query has used. After that, those database tables have data are filtered into the web page having table to display available package data. The database name is 'rathnayakagymsdb' and the databse table connected here is 'fitnesspackages'

2.2-Display Products from Database

```
138        <h4 style="text-align: center; color: #100C50">Note that you can only view our products from here...If you want to buy these products, Login/Register first.</h4>
139
140    <br>
141    <form action="SearchProduct.php" method="post">
142    <h4 align="center">Enter the value you want to search about a product detail inside the following searching box and press on the search button below :</h4>
143 ▼ <form action="SearchProduct.php" method="post">
144 ▼     <div class="searchbar">
145            <input type="text" name="valueToSearch" placeholder="Enter value to Search Product Details....."/>
146        </div>
147        <br>
148 ▼     <div class="searchbtn">
149            <input type ="submit" name="search" value="SEARCH"/>
150        </div>
151    </form>
152    <br>
153    <br>
154    <br>
155 ▼        <?php
156            $query = "select * from product order by Product_ID asc";
157            $result = mysqli_query($conn,$query);
158 ▼        if(mysqli_num_rows($result)>0){
159 ▼            while($row = mysqli_fetch_array($result)){
160                ?>
161 ▼            <div class="col-md-3" style="float: left;">
162 ▼                <form method="post" action="ProductsCart.php?action=Product_ID=<?php echo $row["Product_ID"];?>">
163 ▼                <div class="structure">
164                    <img src="<?php echo $row["Image"];?>" width="190px" height="200px">
165                    <h5><?php echo $row["Product_Name"];?></h5>
166                    <h5>LKR<?php echo $row["Product_Price"];?></h5>
167                    <h5>Available Quantity<br><?php echo $row["Quantity"];?></h5>
168                    <h5>1=Equipment / 2=Supplement<br><?php echo $row["TypeID"];?></h5>
169                </div>
170                </form>
171            </div>
172
173 ▼        <?php
174            }
175        }
176        ?>
177
178    <br>
179    <br>
180    <br>
181    <br>
182    <br>
183    <br>
184    <br>
```

The above php code has been used to get saved product details inside the Rathnayaka GYMS Database. As it is visible, MySQL 'SELECT' query has used in here as well. Help of the while loop also taken here to search and show all the available products from the database. Data transferring method has used as 'post' in order to hide the passing data and for the better security.

2.3-Login Validation


```php
167 ▼ <?php
168
169      include("Config.php");
170      session_start();
171
172   $ErrMsg = "";
173   $EmptyErrMsg = "";
174
175 ▼    if($_SERVER["REQUEST_METHOD"] == "POST") {
176          // username and password sent from form
177
178          $username = mysqli_real_escape_string($connection,$_POST['Username']);
179          $password = mysqli_real_escape_string($connection,$_POST['Password']);
180
181          $sql = "SELECT Username FROM user WHERE Username = '$username' and Password = '$password'";
182          $result = mysqli_query($connection,$sql);
183          $row = mysqli_fetch_array($result,MYSQLI_ASSOC);
184
185          $count = mysqli_num_rows($result);
186          // If result matched $username and $password, table row must be 1 row
187          if(empty($username) || empty($password) )
188 ▼        {
189              $EmptyErrMsg = "Username and Password Fields Cannot Be Empty!";
190          }
191          else
192 ▼        {
193 ▼          if($count == 1) {
194              $_SESSION['Username'] = $username;
195
196              header("location: ProductsCart.php");
197          }
198 ▼         else {
199              $ErrMsg = "You Entered Username or Password is invalid";
200          }
201      }
202   }
203   ?>
204   <span class="EmptyErr">*<?php echo $EmptyErrMsg; ?></span><br>
205   <span class="ErrorMsg">*<?php echo $ErrMsg; ?></span><br>
206   <br>
207   <br>
208   <br>
209              Username : <br>
210              <input type="text" placeholder="Enter Username" name="Username">  <br>
211              Password : <br>
```

In the above screenshot, database connection file has included at the beginning of the php code in order to get data from the database and for the session. A session has started in order to show logged user's username and logout option when a user successfully logged in. There can be seen many PHP validations used in here. If username and password fields are empty and user tries to login, and error message has displayed trough a variable in php. Reason for using a separate variable to show that error is to display the error message with a different colour and to change the displaying position. If user entered username or password is empty, error message under $ErrMsg will be displayed.

2.4-Register Validation


```
145  // define variables and set to empty values
146  $usernameErr = $usernameErrr = $passwordErr = $confirmPasswordErr = $PassConPassErr = "";
147  $username = $password = $confirmPassword = "";
148  $SuccessUnsuccessMsg="";
149 ▼ if ($_SERVER["REQUEST_METHOD"] == "POST") {
150        if (empty($_POST["passwd"]) || empty($_POST["conpassword"]) || empty($_POST["uname"]) )
151 ▼       {
152          $passwordErr = "Password is required";
153          $confirmPasswordErr = "Confirm Password is required";
154          $usernameErr = "Username is required";
155        }
156        else if (!preg_match("/^[a-zA-Z-' ]*$/",$_POST['uname']))
157 ▼       {
158          $usernameErrr = "Only letters and white space allowed";
159        }
160        else
161 ▼       {
162          $password = test_input($_POST["passwd"]);
163          $confirmPassword = test_input($_POST["conpassword"]);
164          $username = test_input($_POST["uname"]);
165
166          if($password!=$confirmPassword)
167 ▼         {
168           $PassConPassErr="Password & Confirm Password should match !";
169          }
170 ▼         else{
171           $conn= mysqli_connect('localhost:3307','root','');
172
173              if(!$conn)
174 ▼           {
175              echo "Not connected to the server!";
176            }
177
178              if(!mysqli_select_db($conn,'rathnayakagymsdb'))
179 ▼           {
180              echo "Database not selected!!";
181            }
182
183              $sql="INSERT INTO user(Username,Password) VALUES ('$username','$password')";
184
185              if(!mysqli_query($conn,$sql))
186 ▼           {
187              $SuccessUnsuccessMsg= "Not Inserted";
188            }
189            else
190 ▼           {
191              $SuccessUnsuccessMsg= "You are successfully Registered!";
192              header("refresh:3 url=login.php");
```

In the above screenshot, it shows all the php validation codes used for user registration. Like in the Login validation, to display the error, separate variables have used. At first it shows the validation for empty fields. And then for username. After that the validation for if the password and confirm password doesn't match. Then if all the user inputs are fine, databse connection has started and MySQL 'INSERT' query has used in order to save user details inside the 'rathnayakagymsdb' where table name is 'user'.

Task 3-Website Testing

3.1-Test Plan

TEST CASE ID	TEST CASE NAME	DESCRIPTION	EXPECTED RESULT
TC1	Registration		
TC1.1	Check Register empty fields	Have to press on Register button without filling any fields in the register form	Should display Error Messages under each field in as particular fields cannot be empty
TC1.2	Check by entering values one by one into fields	Have enter a username inside the username field and press register button. Have to enter only a password and enter register button. Have to enter a confirm password and enter register button separately	Should display Error Messages under all fields until all fields become filled
TC1.3	Check by entering already saved data into fields	Have to enter an already registered user's username, password and confirm password data	Should display a Warning Message as User already exists and Try with a different Username!
TC1.4	Check Password and Confirm Password Matching	Have to enter a proper username, password and a different password inside the confirm password field	Should display an Error Message as Password and Confirm Password must match
TC1.5	Check Registration working without any empty field and with new data	Have to enter new credentials with matching password and same password in confirm password field also	Should display a Message as Successfully Registered
TC2	Customer Login		
TC2.1	Check Login empty fields	Have to press on login button without filling any field	Should display an Error Message as Username and Password fields can't be empty
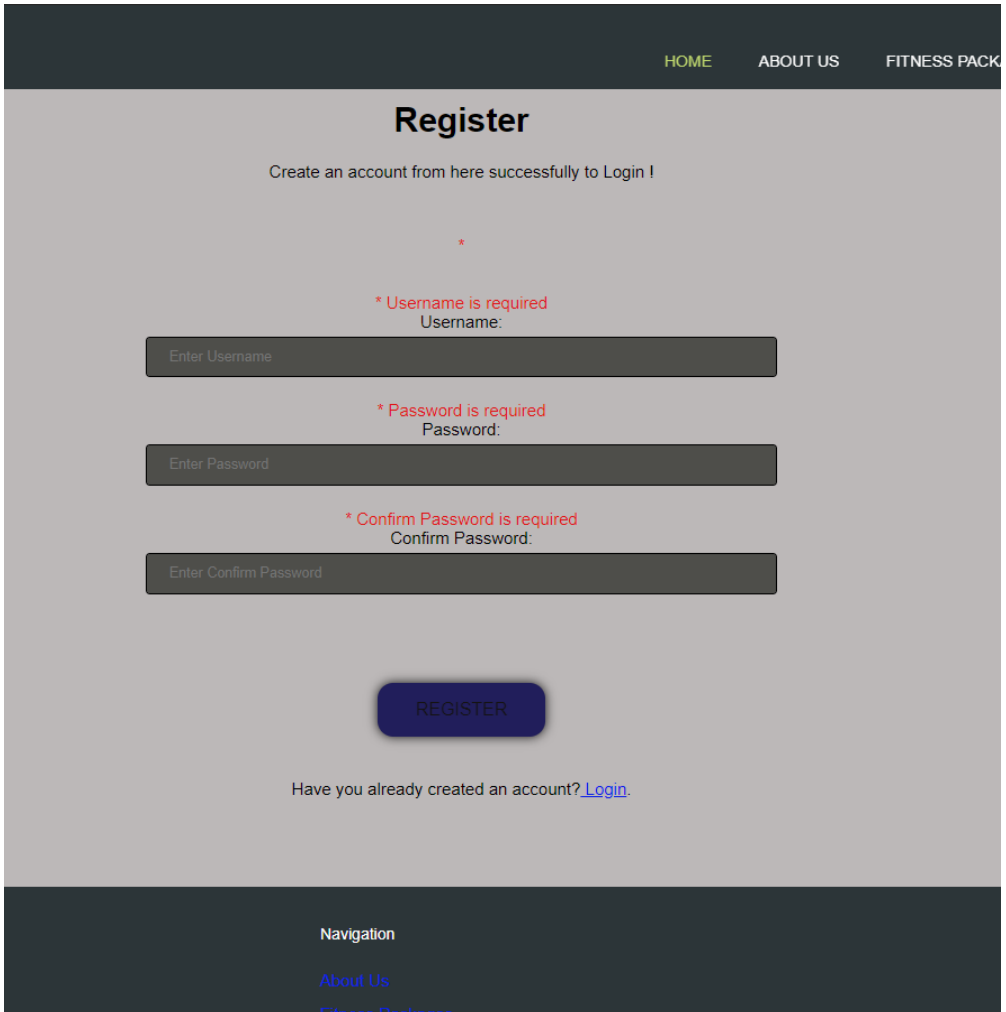
TC2.2	Check by entering values one by one into fields	Have enter a username inside the username field and press register button. Have to enter only a password and enter register button separately	Should display the same Error Message which displayed previously as Username and Password fields can't be empty
TC2.3	Check by wrong username or password	Have to enter a wrong username or a password and press enter login button	Should display an Error Message as entered username or password is invalid
TC2.4	Check Login working without any empty field and with saved correct data	Have to enter a user registered and saved username and password correctly	Should direct user into the Products Store page where add to cart option is there.
TC3	Admin Login		
TC3.1	Check Admin Login empty fields	Have to press on login button without filling any field	Should display an Error Message field cannot be empty
TC3.2	Check with empty username field	Have to enter only a username and press Login as Admin button	Should display an Error Message as Password Fields can't be empty
TC3.3	Check with empty password field	Have to enter only a password and press Login as Admin button	Should display an Error Message as Username Fields can't be empty
TC3.4	Check Login working without any empty field and with correct admin username and password	Have to enter correct admin username and admin password	Should direct Admin to Admin Dashboard
TC4	Search Fitness Packages		
TC4.1	Search with empty search field	Have to press on search button without entering any key value inside the searching bar	Should refresh the same page back
TC4.2	Search with non-existing value	Have to just enter a random value inside the searching bar and press search button	Should load into the result showing page with empty results
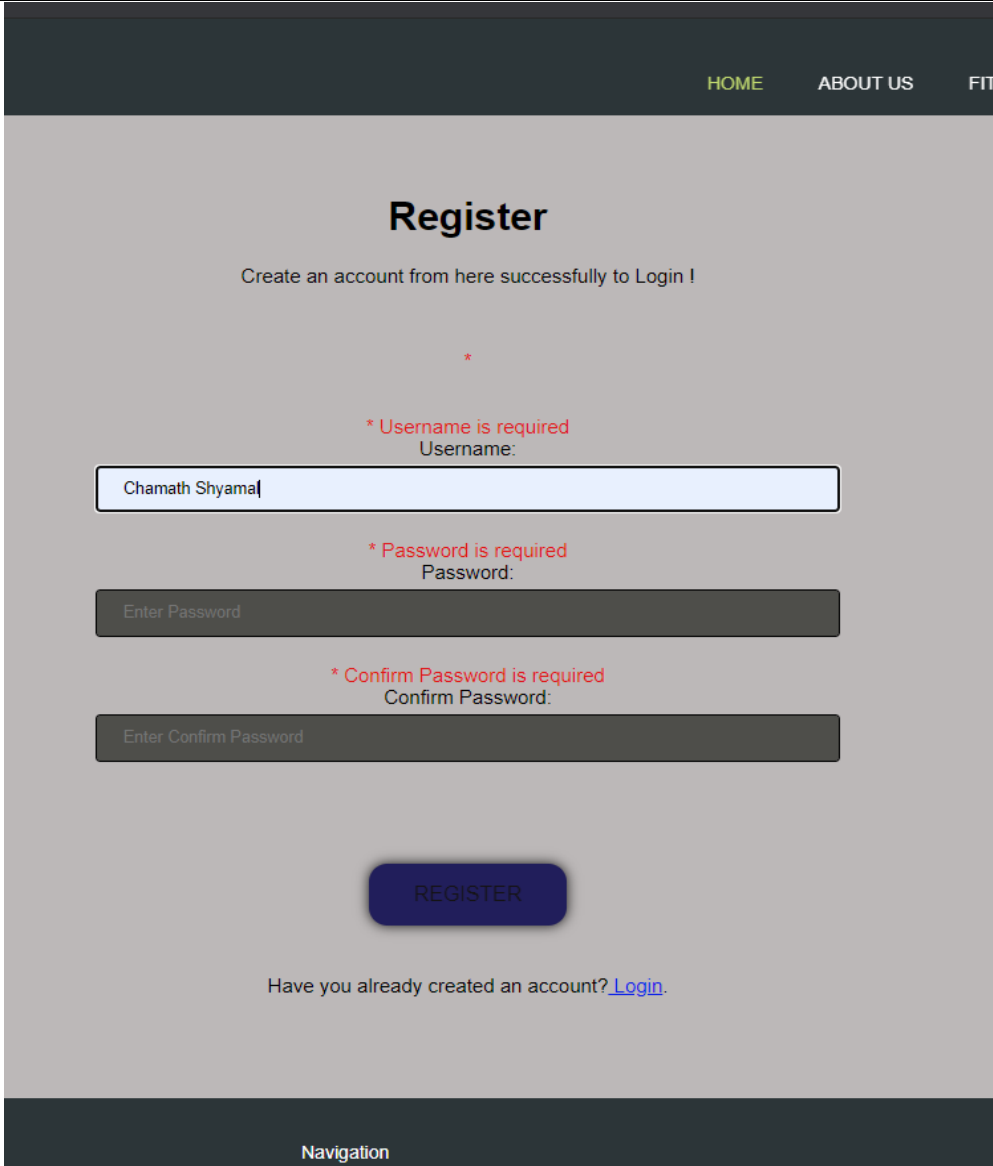
TC4.3	Search with a proper keyword	Have to enter a proper keyword inside the searching bar and press on search button	Should load into the results showing page with the requested result/s
TC5	Search Products (Supplements and Equipment)		
TC5.1	Search with empty search field	Have to press on search button without entering any key value inside the searching bar	Should refresh the same page back
TC5.2	Search with non-existing value	Have to just enter a random value inside the searching bar and press search button	Should load into the results showing page without any result
TC5.3	Search with a proper keyword	Have to enter a proper keyword inside the searching bar and press on search button	Should load into the results showing page with the requested result/s
TC6	Products Cart		
TC6.1	Check Add to Cart button	Have to press add to cart button	Should display the selected product's details in a table
TC6.2	Check by changing the quantity and click Add to Cart button	Have to enter a quantity and press click Add to Cart	Should display the selected product's details in a table with total by multiplying the selected quantity and the price
TC6.3	Check by adding the same product several times	Have to add one product into cart and then press on that particular product's Add to Cart button again and again	Should display a Warning Message as that particular product is already added to the cart
TC6.4	Check Remove button	Have to click on remove which is in front of an added particular product inside the cart	Should display a message as Product removed from cart successfully
TC7	Payment		

TC7.1	Check empty fields	Have to click on Pay Now button with empty fields	Should display an Error Message as fields cannot be empty
TC7.2	Check Card Number	Have to provide a card number greater than 16	Should display an Error Message as card number should contain 16 numbers
TC7.3	Check CVV Code	Have to provide a number less than 3 or greater than 4	Should display an Error Message as CVV code should be between 3 to 4 numbers
TC8	Contact Us		
TC8.1	Check empty fields	Have to click on Submit button with empty fields	Should display an Error Message as fields can't be empty under first name and message and email
TC8.2	Check Email	Have to enter symbols characters or anything inside the email field and press on submit button	Should display an Error Message as Invalid Email Format
TC8.3	Check submission	Have to enter all fields clearly and press on submit button	Should display a message as Successfully Inserted
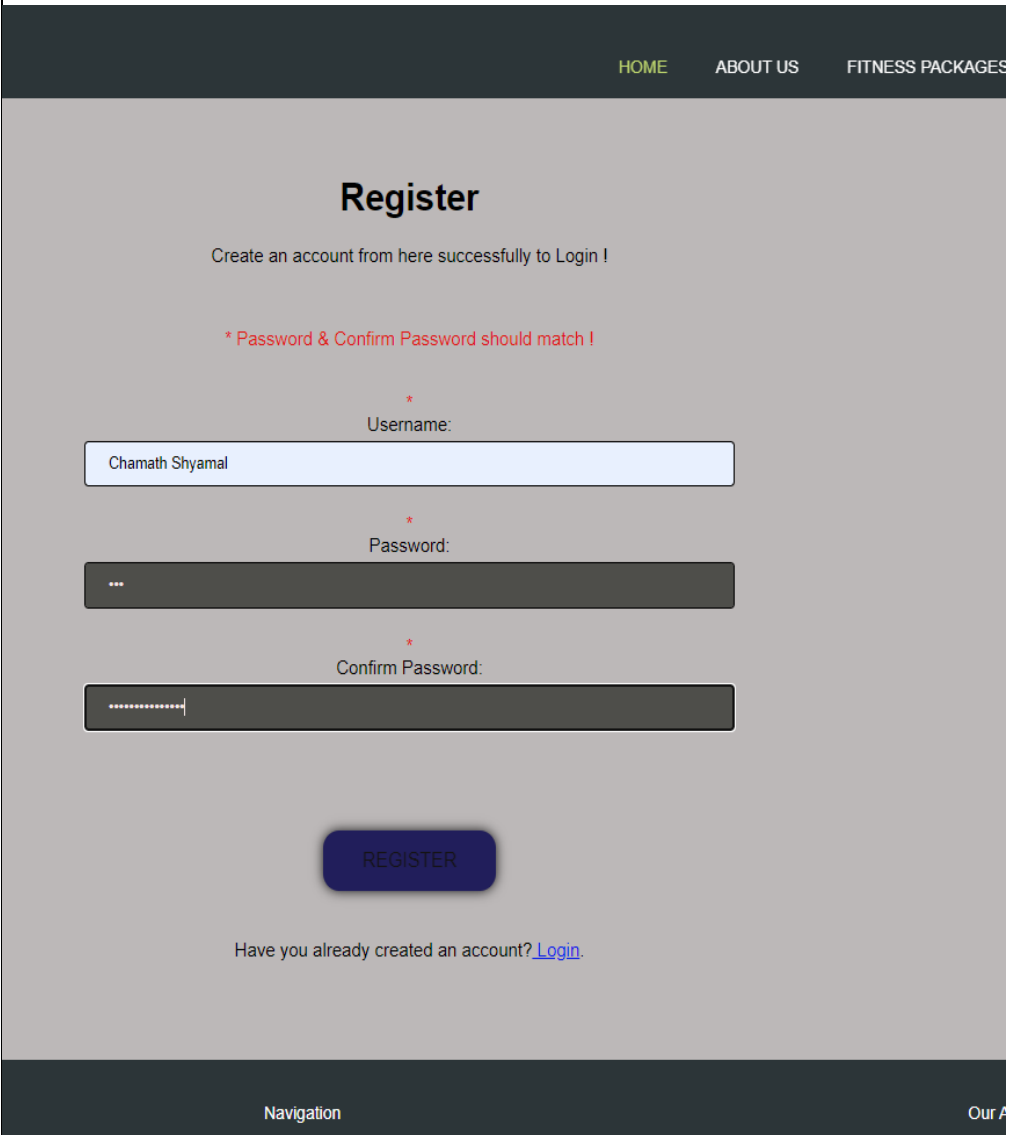
3.2-Test Cases
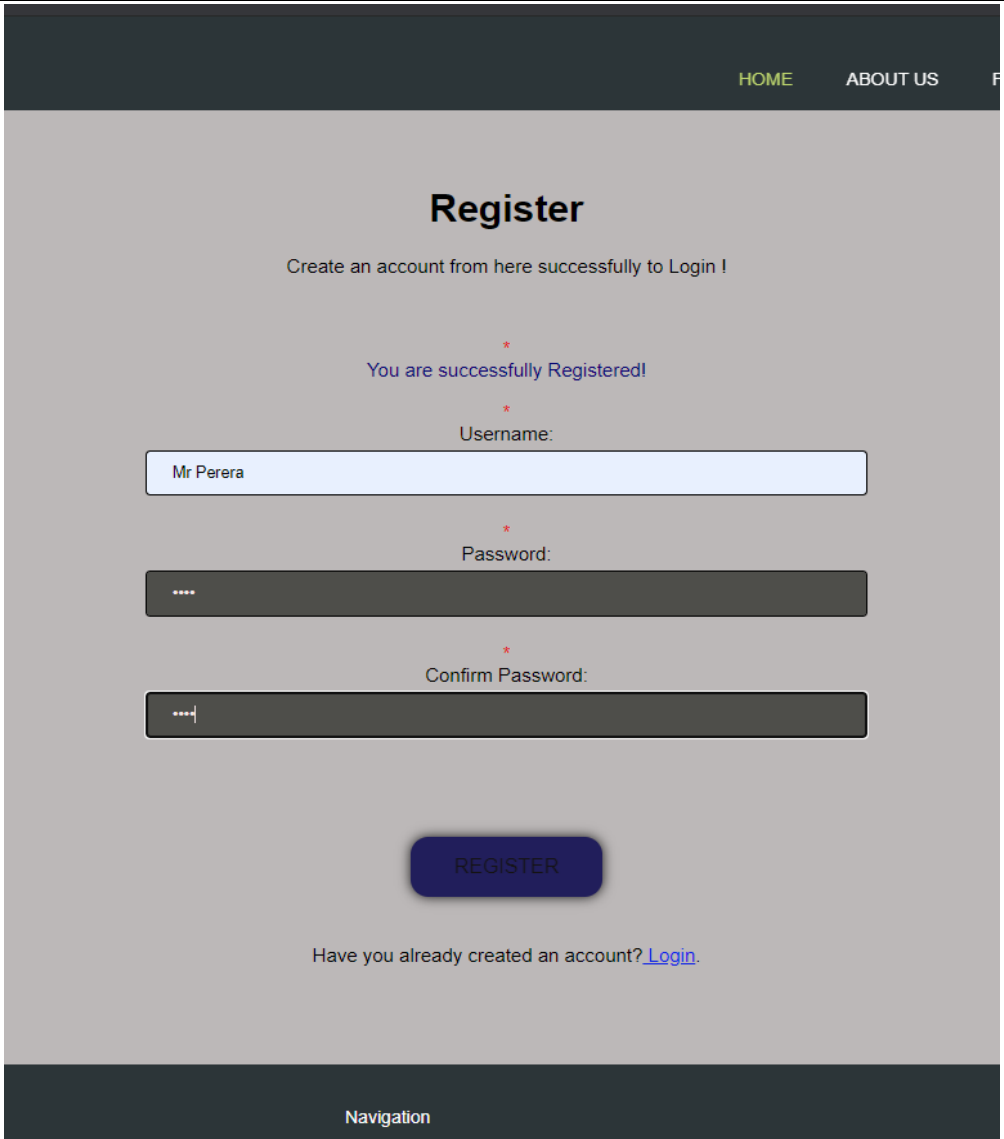
TC 1

TEST CASE ID	TC1.1
TEST CASE NAME	Check Register empty fields
DESCRIPTION	Have to press on Register button without filling any fields in the register form
EXPECTED RESULT	Should display Error Messages under each field in as particular fields cannot be empty
ACTUAL RESULT	Actual result received as three error messages display above each fields mentioning that separately as fields are required
CONCLUSION	The error messages displayed as expected and outcomes are very clear
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

TEST CASE ID	TC1.2
TEST CASE NAME	Check by entering values one by one into fields
DESCRIPTION	Have enter a username inside the username field and press register button. Have to enter only a password and enter register button. Have to enter a confirm password and enter register button separately
EXPECTED RESULT	Should display Error Messages under all fields until all fields become filled
ACTUAL RESULT	Actual result received as three error messages display above each fields mentioning that separately as fields are required
CONCLUSION	The error messages displayed as expected and outcomes are very clear and same errors displayed in the above test case have received here also.
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

TEST CASE ID	TC1.3
TEST CASE NAME	Check by entering already saved data into fields
DESCRIPTION	Have to enter an already registered user's username, password and confirm password data
EXPECTED RESULT	Should display a Warning Message as User already exists and Try with a different Username!
ACTUAL RESULT	Actual result was different from the expected result. Instead of showing an error message as expected, it showed a message as you are successfully registered!
CONCLUSION	The error message didn't display as expected. The outcome should be an error message as expected.
STATUS (PASS/FAIL)	Fail
SCREENSHOT	
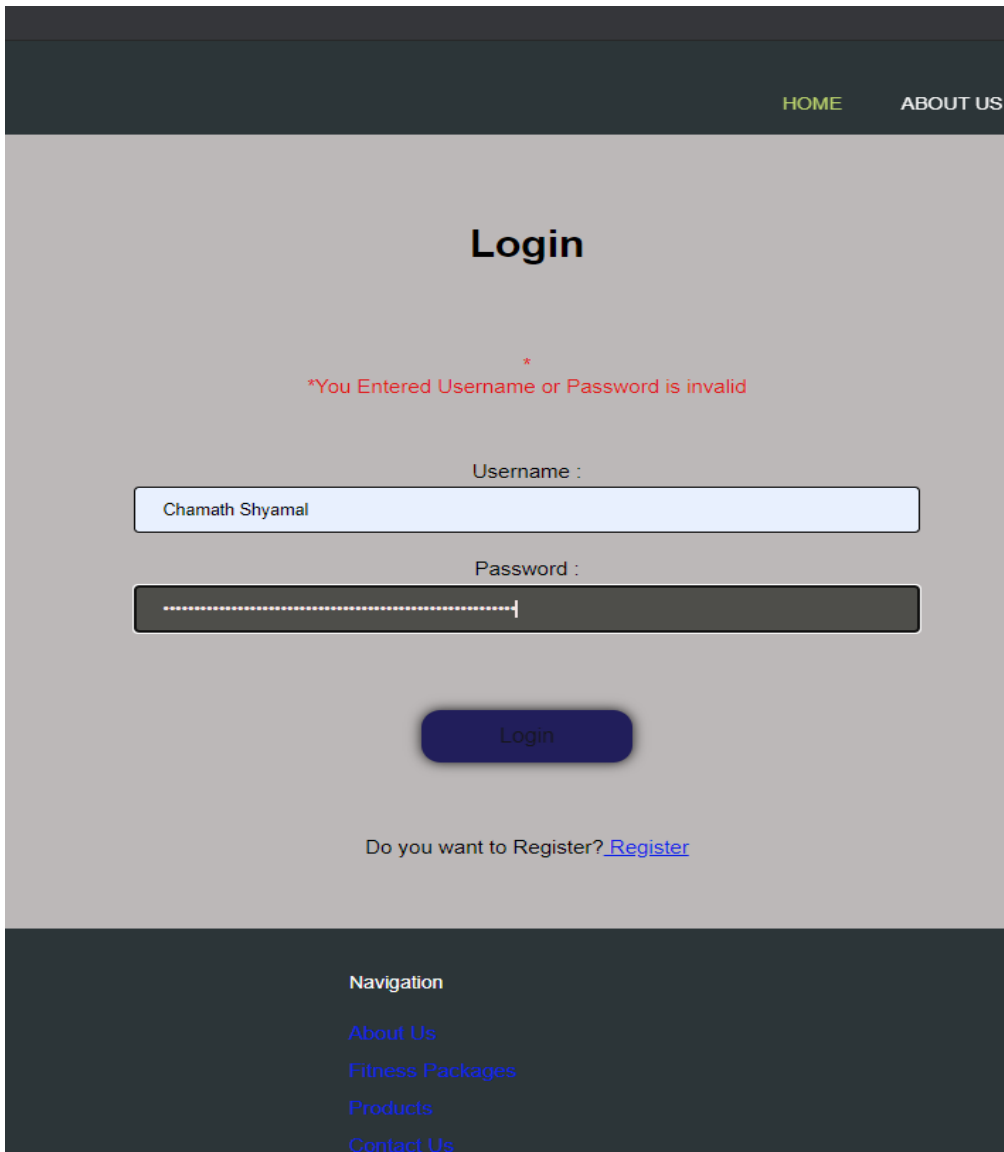
TEST CASE ID	TC1.4
TEST CASE NAME	Check Password and Confirm Password Matching
DESCRIPTION	Have to enter a proper username, password and a different password inside the confirm password field
EXPECTED RESULT	Should display an Error Message as Password and Confirm Password must match
ACTUAL RESULT	Actual result was same as the expected result. It showed the error message as Password & Confirm Password should match!
CONCLUSION	The error message received as expected when unmatching password and confirm password entered inside the fields.
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

Within the screenshot:

HOME   ABOUT US   FITNESS PACKAGES

Register

Create an account from here successfully to Login !

* Password & Confirm Password should match !

*
Username:

Chamath Shyamal

*
Password:

...

*
Confirm Password:

··············

REGISTER

Have you already created an account? Login.

Navigation   Our A
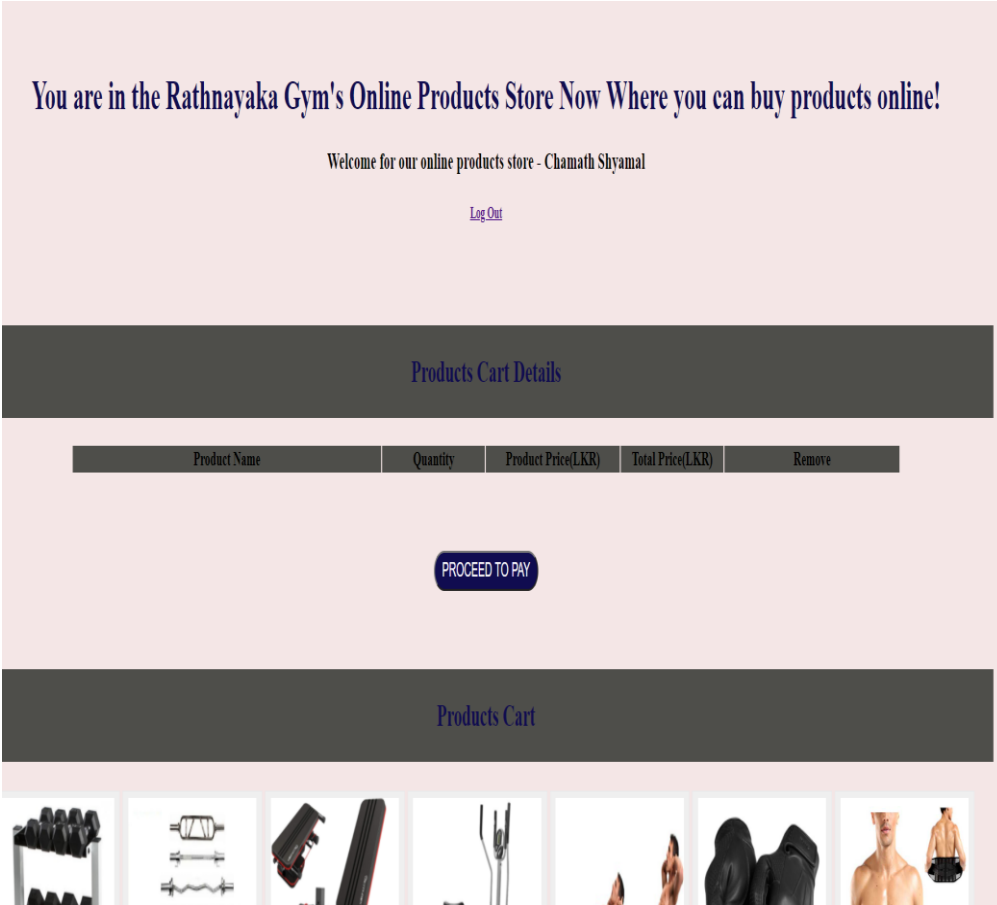
TEST CASE ID	TC1.5
TEST CASE NAME	Check Registration working without any empty field and with new data
DESCRIPTION	Have to enter new credentials with matching password and same password in confirm password field also
EXPECTED RESULT	Should display a Message as Successfully Registered
ACTUAL RESULT	Actual result was same as the expected result. It showed the message as you are successfully registered!
CONCLUSION	The expected and actual results are same as all entered data inside the fields are new ones and correct
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

HOME   ABOUT US

Register

Create an account from here successfully to Login !

*
You are successfully Registered!
*
Username:

Mr Perera

*
Password:

••••

*
Confirm Password:

•••|

REGISTER

Have you already created an account? Login.

Navigation

TC 2
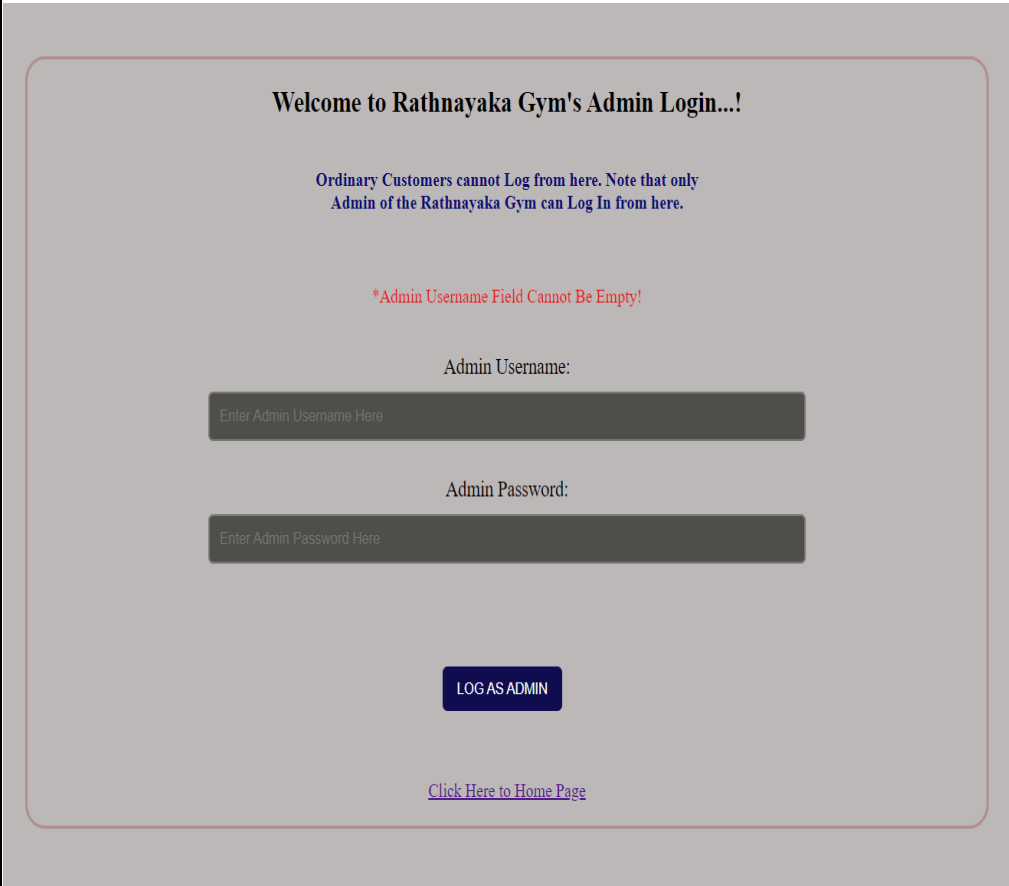
TEST CASE ID	TC2.1
TEST CASE NAME	Check Login empty fields
DESCRIPTION	Have to press on login button without filling any field
EXPECTED RESULT	Should display an Error Message as Username and Password fields can't be empty
ACTUAL RESULT	Actual result was same as the expected result. It showed the error message as username and password fields cannot be empty
CONCLUSION	The expected and actual results are same as login button has pressed without filling the fields
STATUS (PASS/FAIL)	Pass
SCREENSHOT	
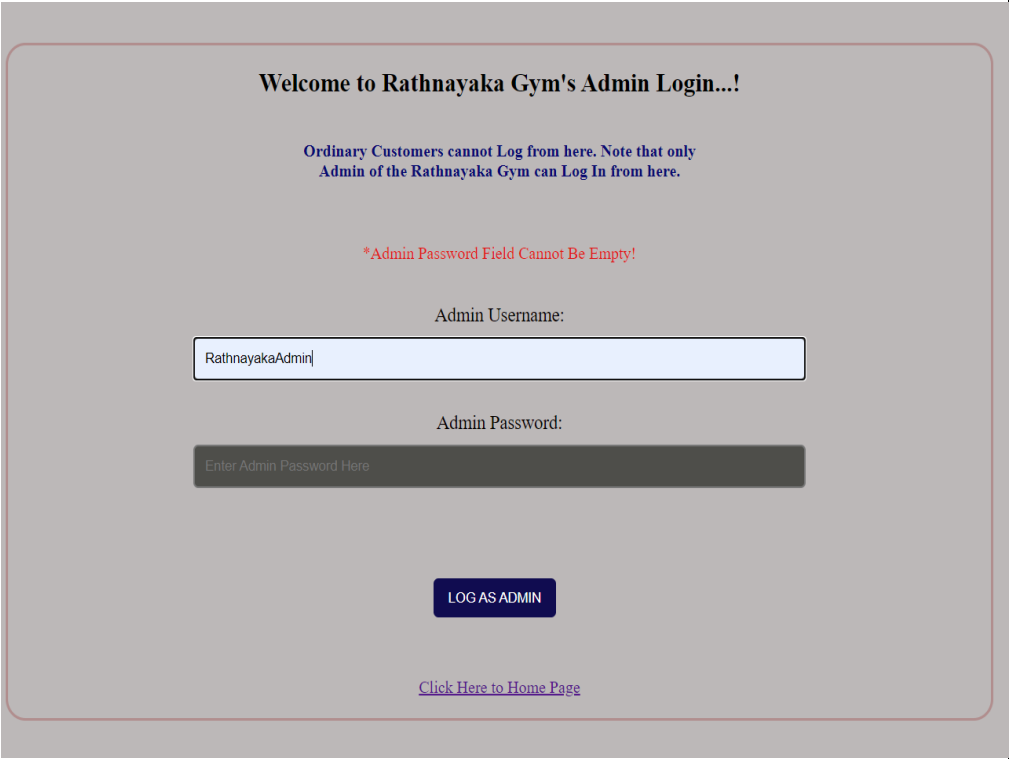
TEST CASE ID	TC2.2
TEST CASE NAME	Check by entering values one by one into fields
DESCRIPTION	Have to enter a username inside the username field and press register button. Have to enter only a password and enter register button separately
EXPECTED RESULT	Should display the same Error Message which displayed previously as Username and Password fields can't be empty
ACTUAL RESULT	Actual result was same as the expected result. It showed the error message as username and password fields cannot be empty
CONCLUSION	The expected and actual results are same
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

TEST CASE ID	TC2.3
TEST CASE NAME	Check by wrong username or password
DESCRIPTION	Have to enter a wrong username or a password and press enter login button
EXPECTED RESULT	Should display an Error Message as entered username or password is invalid
ACTUAL RESULT	Actual result was same as the expected result. It showed the error message as You entered username or password is invalid!
CONCLUSION	The expected and actual results are same and the same expected error received as entered username is an invalid one
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

TEST CASE ID	TC2.4
TEST CASE NAME	Check Login working without any empty field and with saved correct data
DESCRIPTION	Have to enter a user registered and saved username and password correctly
EXPECTED RESULT	Should direct user into the Products Store page where add to cart option is there.
ACTUAL RESULT	Actual result was same as the expected result. Directed into the page where Rathnayaka Gyms products store is there
CONCLUSION	The expected and actual results are same.
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

You are in the Rathnayaka Gym's Online Products Store Now Where you can buy products online!

Welcome for our online products store - Chamath Shyamal

Log Out

Products Cart Details

Product Name	Quantity	Product Price(LKR)	Total Price(LKR)	Remove

PROCEED TO PAY

Products Cart

TC 3
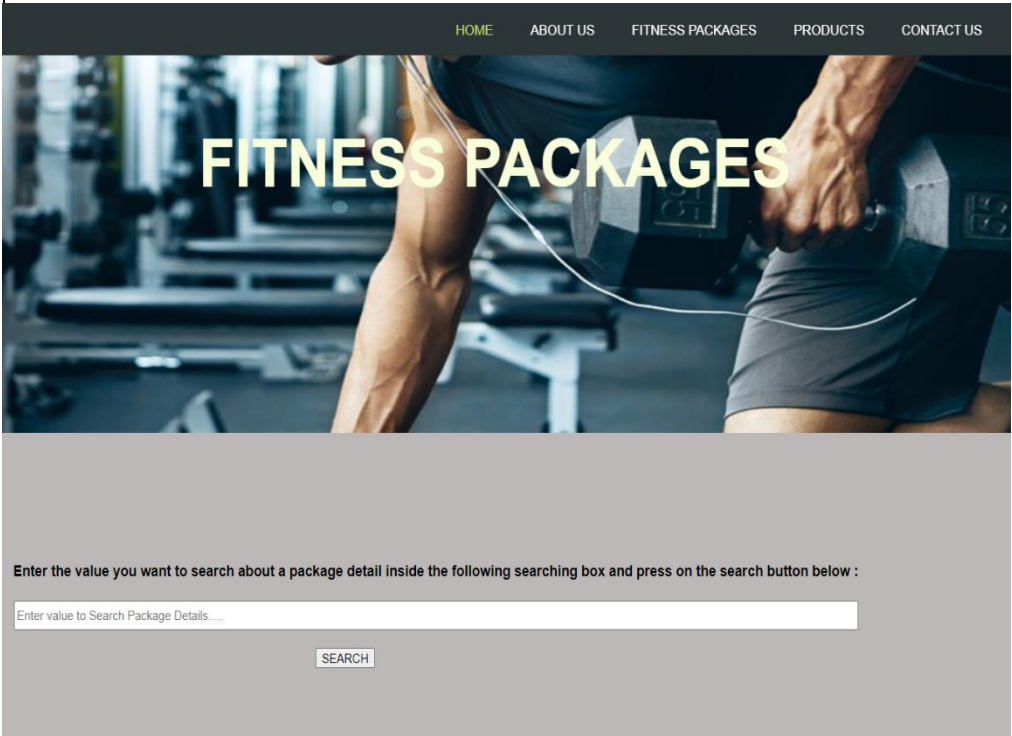
TEST CASE ID	TC3.1
TEST CASE NAME	Check Admin Login empty fields
DESCRIPTION	Have to press on login button without filling any field
EXPECTED RESULT	Should display an Error Message field cannot be empty
ACTUAL RESULT	Actual result was not same as the expected result as the actual result shows an error as Admin Username field cannot be empty
CONCLUSION	The expected and actual results not same. Instead of showing an error as Fields cannot be blank, it shows an error as Admin Username field cannot be empty
STATUS (PASS/FAIL)	Fail
SCREENSHOT	

Welcome to Rathnayaka Gym's Admin Login...!

Ordinary Customers cannot Log from here. Note that only
Admin of the Rathnayaka Gym can Log In from here.

*Admin Username Field Cannot Be Empty!

Admin Username:

Enter Admin Username Here

Admin Password:

Enter Admin Password Here

LOG AS ADMIN

Click Here to Home Page
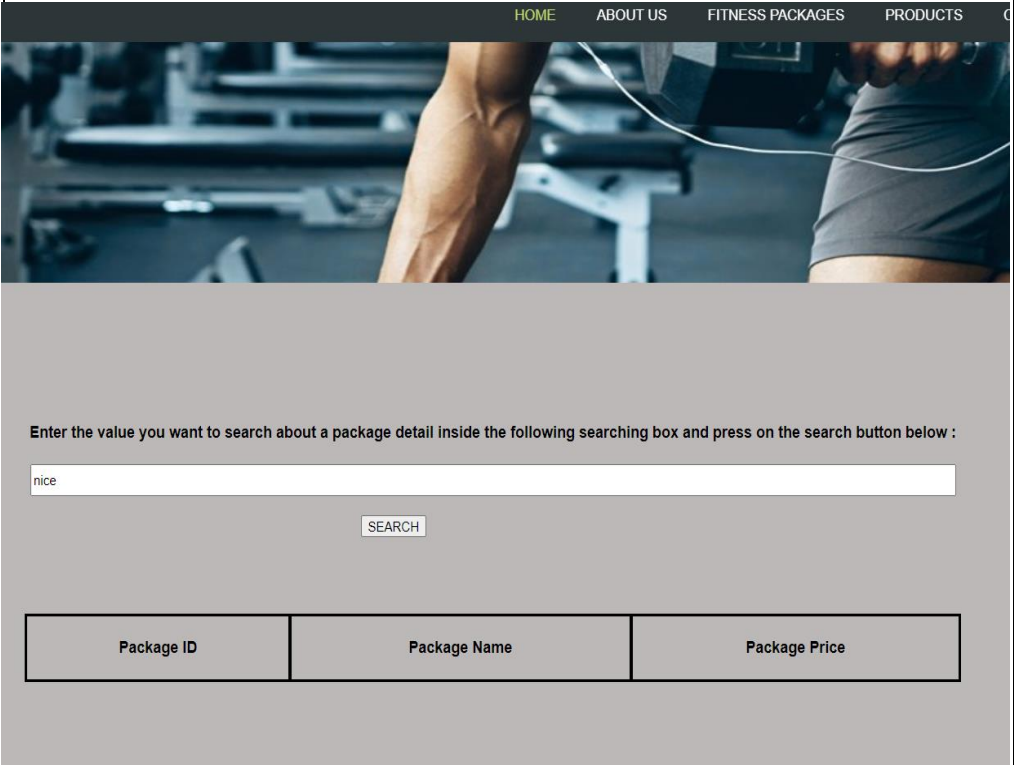
TEST CASE ID	TC3.2
TEST CASE NAME	Check with empty username field
DESCRIPTION	Have to enter only a username and press Login as Admin button
EXPECTED RESULT	Should display an Error Message as Password Fields can't be empty
ACTUAL RESULT	Actual result was same as the expected result as the actual result shows an error as Admin Password field cannot be empty
CONCLUSION	The expected and actual results are same. Expected error received successfully
STATUS (PASS/FAIL)	Pass
SCREENSHOT	**Welcome to Rathnayaka Gym's Admin Login...!** **Ordinary Customers cannot Log from here. Note that only Admin of the Rathnayaka Gym can Log In from here.** *Admin Password Field Cannot Be Empty! Admin Username: RathnayakaAdmin Admin Password: Enter Admin Password Here LOG AS ADMIN Click Here to Home Page

TEST CASE ID	TC3.3
TEST CASE NAME	Check with empty password field
DESCRIPTION	Have to enter only a password and press Login as Admin button
EXPECTED RESULT	Should display an Error Message as Username Fields can't be empty
ACTUAL RESULT	Actual result was same as the expected result as the actual result shows an error as Admin Username field cannot be empty
CONCLUSION	The expected and actual results are same. Expected error received successfully
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

Welcome to Rathnayaka Gym's Admin Login...!

**Ordinary Customers cannot Log from here. Note that only
Admin of the Rathnayaka Gym can Log In from here.**

Admin Username Field Cannot Be Empty!

Admin Username:

Enter Admin Username Here

Admin Password:

••••••

LOG AS ADMIN

Click Here to Home Page

TEST CASE ID	TC3.4
TEST CASE NAME	Check Login working without any empty field and with correct admin username and password
DESCRIPTION	Have to enter correct admin username and admin password
EXPECTED RESULT	Should direct Admin to Admin Dashboard
ACTUAL RESULT	Actual result was same as the expected result as user directed into the Admin Dashboard
CONCLUSION	The expected and actual results are same. User directed successfully to Admin Dashboard
STATUS (PASS/FAIL)	Pass
SCREENSHOT	**Welcome To RATHNAYAKA GYM'S Admin Dashboard !** Click to view Product Table Menu Click to view Package Table Menu Click to Delete Users Click Here to Log Out

TC 4

TEST CASE ID	TC4.1
TEST CASE NAME	Search with empty search field
DESCRIPTION	Have to press on search button without entering any key value inside the searching bar
EXPECTED RESULT	Should refresh the same page back
ACTUAL RESULT	Actual result was same as the expected result as user re-directed into the same page
CONCLUSION	The expected and actual results are same. User re-directed successfully to Fitness Packages page
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

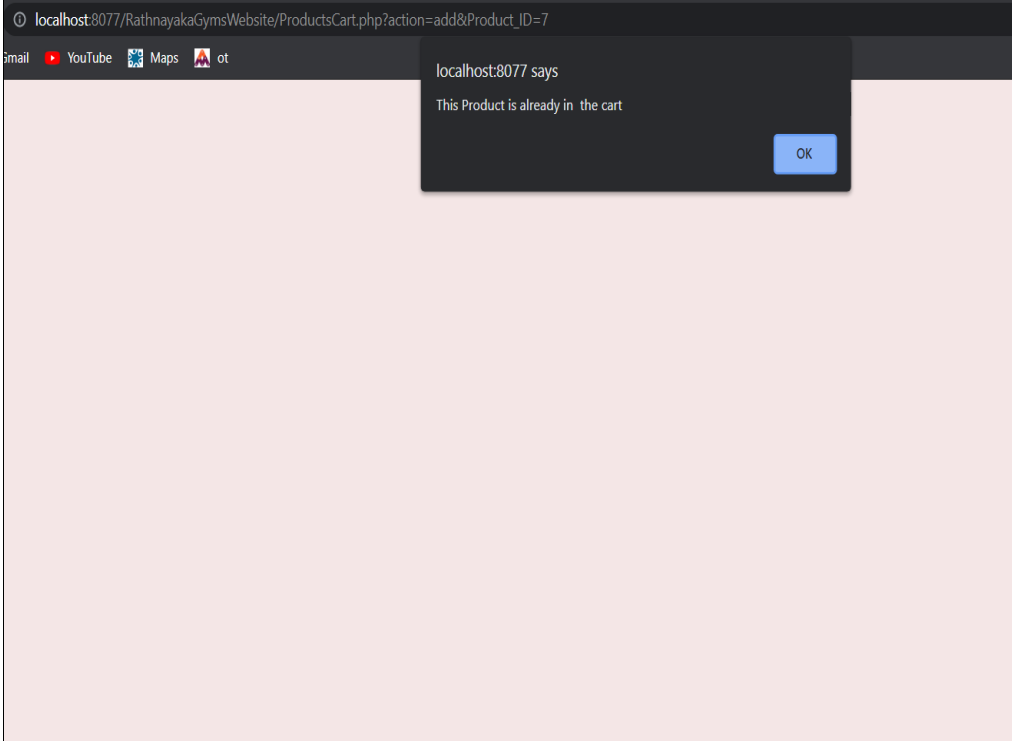| TEST CASE ID	TC4.2
TEST CASE NAME	Search with non-existing value
DESCRIPTION	Have to just enter a random value inside the searching bar and press search button
EXPECTED RESULT	Should load into the result showing page with empty results
ACTUAL RESULT	Actual result was same as the expected result as results having page loaded without showing any result
CONCLUSION	The expected and actual results are same.
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

HOME   ABOUT US   FITNESS PACKAGES   PRODUCTS

Enter the value you want to search about a package detail inside the following searching box and press on the search button below :

nice

SEARCH

Package ID	Package Name	Package Price

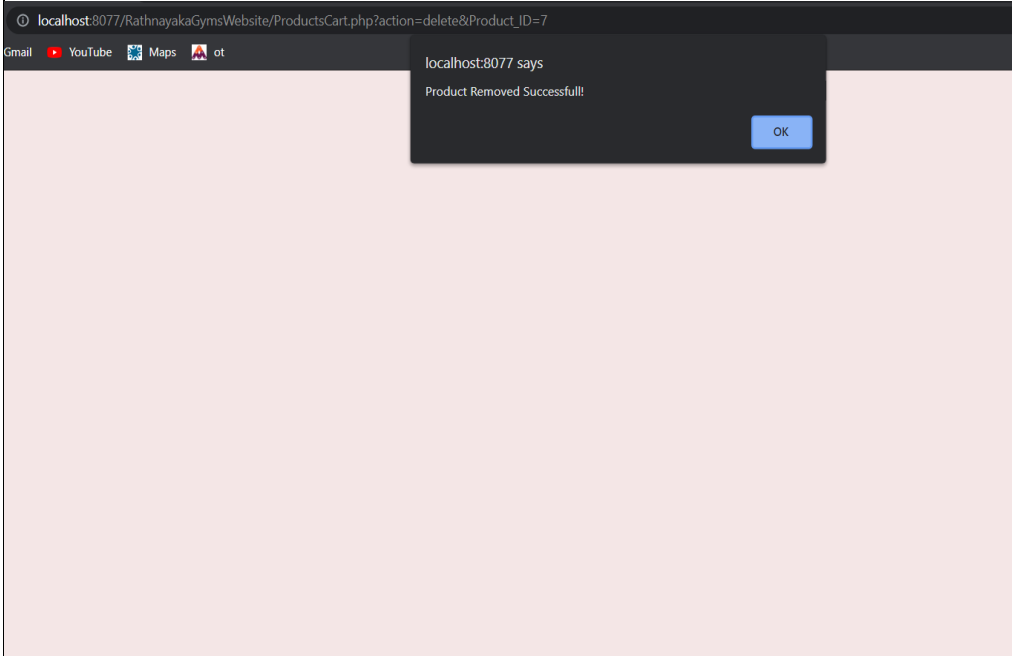| TEST CASE ID	TC4.3
TEST CASE NAME	Search with a proper keyword
DESCRIPTION	Have to enter a proper keyword inside the searching bar and press on search button
EXPECTED RESULT	Should load into the results showing page with the requested result/s
ACTUAL RESULT	Actual result was same as the expected result as requested result appeared in the results showing page
CONCLUSION	The expected and actual results are same. And the expected result shown in the result showing page and inside a table
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

HOME   ABOUT US   FITNESS PACKAGES   PRODUCTS

Enter the value you want to search about a package detail inside the following searching box and press on the search button below :

Family

SEARCH

Package ID	Package Name	Package Price
4	Family	LKR 39,500
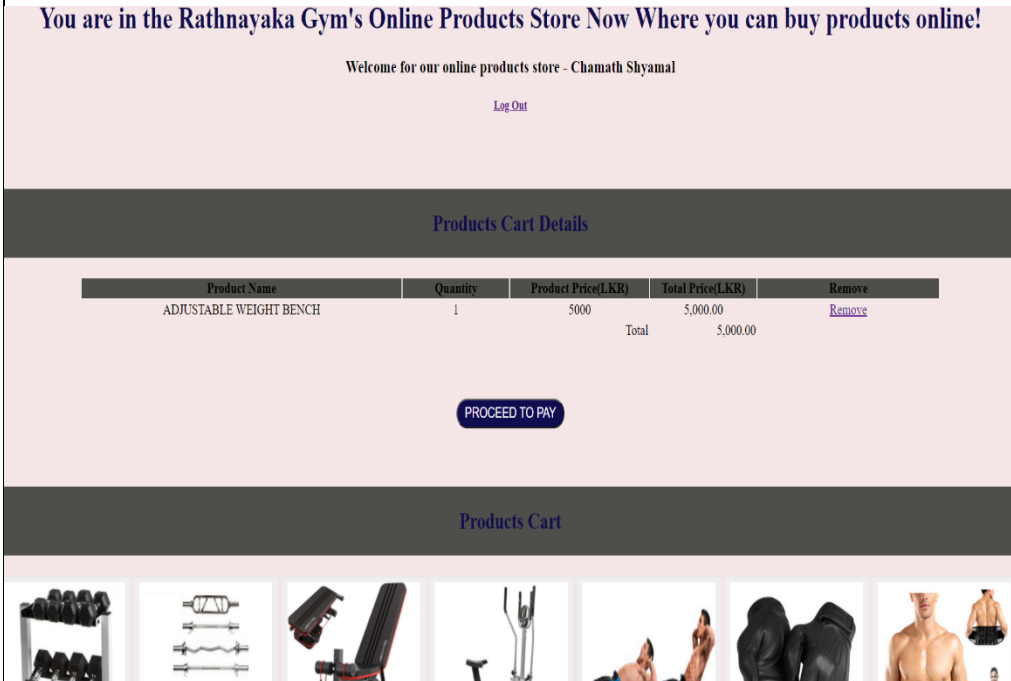
TC 5

TEST CASE ID	TC5.1
TEST CASE NAME	Search with empty search field
DESCRIPTION	Have to press on search button without entering any key value inside the searching bar
EXPECTED RESULT	Should refresh the same page back
ACTUAL RESULT	Actual result was not same as the expected result. It showed all the available products
CONCLUSION	Results did not match. It showed all the available products instead of refreshing the page
STATUS (PASS/FAIL)	Fail
SCREENSHOT	

TEST CASE ID	TC5.2
TEST CASE NAME	Search with non-existing value
DESCRIPTION	Have to just enter a random value inside the searching bar and press search button
EXPECTED RESULT	Should load into the results showing page without any result
ACTUAL RESULT	Actual result matched with the expected result as user directed into results showing page without displaying any product
CONCLUSION	Results matched because user directed into products results showing page without showing and product and only with the option to return to product page
STATUS (PASS/FAIL)	Pass
SCREENSHOT	Back

TEST CASE ID	TC5.3
TEST CASE NAME	Search with a proper keyword
DESCRIPTION	Have to enter a proper keyword inside the searching bar and press on search button
EXPECTED RESULT	Should load into the results showing page with the requested result/s
ACTUAL RESULT	Actual result matched with the expected result as user could see only the result which is searched.
CONCLUSION	Results matched because user directed into products results showing page only with the user requested product
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

ON FISH OIL (100 SOFT-GELS)

LKR2000

Available Quantity
15

1=Equipment / 2=Supplement
2

Back

TC 6

TEST CASE ID	TC6.1
TEST CASE NAME	Check Add to Cart button
DESCRIPTION	Have to press add to cart button
EXPECTED RESULT	Should display the selected product's details in a table
ACTUAL RESULT	Actual result matched with the expected result because the added product displayed inside the cart with all its properties
CONCLUSION	Actual result and the expected result matched
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

You are in the Rathnayaka Gym's Online Products Store Now Where you can buy products online!

Welcome for our online products store - Chamath Shyamal

Log Out

Products Cart Details

Product Name	Quantity	Product Price(LKR)	Total Price(LKR)	Remove
ADJUSTABLE WEIGHT BENCH	1	5000	5,000.00	Remove
		Total	5,000.00	

PROCEED TO PAY

Products Cart

TEST CASE ID	TC6.2
TEST CASE NAME	Check by changing the quantity and click Add to Cart button
DESCRIPTION	Have to enter a quantity and press click Add to Cart
EXPECTED RESULT	Should display the selected product's details in a table with total by multiplying the selected quantity and the price
ACTUAL RESULT	Actual result matched with the expected result because the added product displayed inside the cart with multiplied price
CONCLUSION	Actual result and the expected result matched and displayed clearly
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

You are in the Rathnayaka Gym's Online Products Store Now Where you can buy products online!

Welcome for our online products store - Chamath Shyamal

Log Out

Products Cart Details

Product Name	Quantity	Product Price(LKR)	Total Price(LKR)	Remove
LEATHER GLOVES	5	1500	7,500.00	Remove
		Total	7,500.00	

PROCEED TO PAY

Products Cart

TEST CASE ID	TC6.3
TEST CASE NAME	Check by adding the same product several times
DESCRIPTION	Have to add one product into cart and then press on that particular product's Add to Cart button again and again
EXPECTED RESULT	Should display a Warning Message as that particular product is already added to the cart
ACTUAL RESULT	Actual result matched with the expected result as a message pop us mentioning product is already added to the cart
CONCLUSION	Actual result and the expected result are matched as the expected error message is appeared
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

localhost:8077/RathnayakaGymsWebsite/ProductsCart.php?action=add&Product_ID=7

Gmail YouTube Maps ot

localhost:8077 says

This Product is already in the cart

OK

TEST CASE ID	TC6.4
TEST CASE NAME	Check Remove button
DESCRIPTION	Have to click on remove which is in front of an added particular product inside the cart
EXPECTED RESULT	Should display a message as Product removed from cart successfully
ACTUAL RESULT	Actual result matched with the expected result as a message pop us mentioning product removed successfully from the cart
CONCLUSION	Actual result and the expected result are matched as the expected message is appeared
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

localhost:8077/RathnayakaGymsWebsite/ProductsCart.php?action=delete&Product_ID=7

Gmail   YouTube   Maps   ot

localhost:8077 says

Product Removed Successfull!

OK
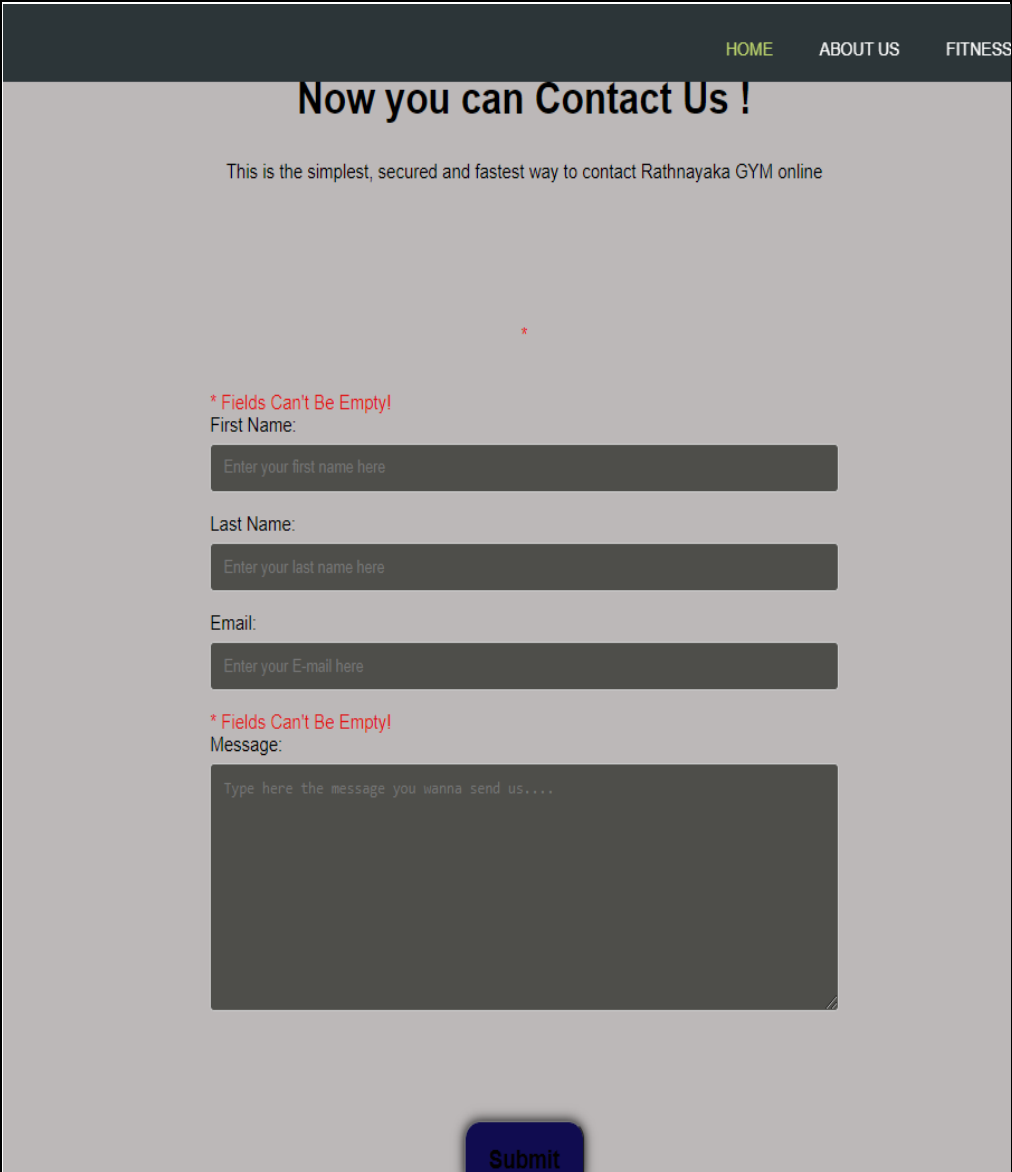
TC 7

TEST CASE ID	TC7.1
TEST CASE NAME	Check empty fields
DESCRIPTION	Have to click on Pay Now button with empty fields
EXPECTED RESULT	Should display an Error Message as fields cannot be empty
ACTUAL RESULT	Actual result matched with the expected result as a message appeared as fields cannot be blank
CONCLUSION	Actual result and the expected result are matched
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

Fields Can't Be Empty!

Payment Details

Please fill the followig form to do the payment and place the order successfully!

Your Name: Enter Your Name Here

Card Type: ○ Visa ○ Master Card ○ American Express

Card Number: Enter Your Card Number Here

Expiry Date: January ▾   Provide the Date Here

CVV: xxxx

Street Code: Provide Your Street Number

Street Name: Enter Your Street Name Here

City: Enter the City Name Here

TEST CASE ID	TC7.2
TEST CASE NAME	Check Card Number
DESCRIPTION	Have to provide a card number greater than 16
EXPECTED RESULT	Should display an Error Message as card number should contain 16 numbers
ACTUAL RESULT	Actual result matched with the expected result as a message appeared mentioning Card should contain 16 numbers
CONCLUSION	Actual result and the expected result are matched as the error message displayed successfully
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

Card should contain 16 numbers!

Payment Details

Please fill the followig form to do the payment and place the order successfully!

Your Name: [Enter Your Name Here]

Card Type: ○ Visa ○ Master Card ○ American Express

Card Number: [6259214962512651526512651296292929262626]

Expiry Date: [January ▾] [Provide the Date Here]

CVV: [xxxx]

Street Code: [Provide Your Street Number]

Street Name: [Enter Your Street Name Here]

City: [Enter the City Name Here]

TEST CASE ID	TC7.3
TEST CASE NAME	Check CVV Code
DESCRIPTION	Have to provide a number less than 3 or greater than 4
EXPECTED RESULT	Should display an Error Message as CVV code should be between 3 to 4 numbers
ACTUAL RESULT	Actual result matched with the expected result because it threw the error message exactly as expected
CONCLUSION	Actual result and the expected result matched
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

CVV code should be between 3 to 4 numbers!

Payment Details

Please fill the followig form to do the payment and place the order successfully!

Your Name: [Enter Your Name Here]

Card Type: ○ Visa ○ Master Card ○ American Express

Card Number: [Enter Your Card Number Here]

Expiry Date: [January ▼] [Provide the Date Here]

CVV: [1]

Street Code: [Provide Your Street Number]

Street Name: [Enter Your Street Name Here]

City: [Enter the City Name Here]

TC 8

TEST CASE ID	TC8.1
TEST CASE NAME	Check empty fields
DESCRIPTION	Have to click on Submit button with empty fields
EXPECTED RESULT	Should display an Error Message as fields can't be empty under first name and message and email
ACTUAL RESULT	Expected result slightly matched with the actual result. It showed the error only under first name and message column.
CONCLUSION	Only difference is error message didn't appear under the email field
STATUS (PASS/FAIL)	Fail
SCREENSHOT	

TEST CASE ID	TC8.2
TEST CASE NAME	Check Email
DESCRIPTION	Have to enter symbols characters or anything inside the email field and press on submit button
EXPECTED RESULT	Should display an Error Message as Invalid Email Format
ACTUAL RESULT	Expected result matched with the actual result as it showed the error message as Invalid Email Format
CONCLUSION	Expected error message appeared as Invalid Email Format for the actual result as well
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

TEST CASE ID	TC8.3
TEST CASE NAME	Check submission
DESCRIPTION	Have to enter all fields clearly and press on submit button
EXPECTED RESULT	Should display a message as Successfully Inserted
ACTUAL RESULT	Expected result matched with the actual result because it returned the message as Inserted Successfully…Thanks for contacting us!
CONCLUSION	Expected result was matched with the actual result returning the successful message
STATUS (PASS/FAIL)	Pass
SCREENSHOT	

Now you can Contact Us !

This is the simplest, secured and fastest way to contact Rathnayaka GYM online

Inserted successfully...Thanks for contacting us!

*

*
First Name:

Chamath

Last Name:

Shyamal

Email:

arachchigechamath@gmail.com

*
Message:

Hello

HOME   ABOUT US   FITNESS

Conclusion

However, I could get many advantages from this course work such as how to solve doubts and issues, how to gather requirements needed, how to do the analyzation properly, how to manage time effectively, how to overcome from errors which are arising when writing the code and so on. Finally…with all above mentioned details and my proper time management, I could prepare a successful document to complete this assignment. Thus, I hope this assignment been a great help for me to get learnt about Web Designing and to prove that I have successfully completed my eight assignment in my HD Program. Moreover, during this Web Application Development assessment, I learnt about more stuffs which are essential in designing and about coding. Developing of this web application for Rathnayaka GYMS gave me the chance to try my new skills in practice. Specially this recalled my knowledge for drawing Flowchart diagrams and so on. So, I have built the application in a user-friendly manner including user login, add to cart, searching packages, user registration, payment, admin login, products and packages updating, deletion and insertion and many more functions. While doing this project I also gained deep understanding on web designing as well as on coding and how it can be implemented in real life situations as now I have the experience in creating a web application for Rathnayaka GYMS. Thus, I believe that this was a great chance for me to improve my web designing and computer programming skills.