

Tasks: Web development, backend and acceptance testing

Introduction

In this report I will briefly explain the tasks that were assigned to me by the group leader. Some of the following tasks were completed either all by myself or with help of another of my group member.

Tasks

Web development: At the beginning of the group project, I was assigned to develop the main website alongside another group member. I designed the face of the website, such as the welcome page. I spent most of the developing on the front page since it is the part users will see first. The website also included a fully functional registration form page, it was validated so if there were blank or wrong inputs the form would send feedback to enter details correctly. And of course, a fully functional login form where users need to enter correct details in order to login, also validated so if there was to be an unregistered user, the form would automatically display a popup asking user to register first. After login, user would be welcomed with their registered name. As it was a charity website, I added a register option for users to register as 'Donor' or 'Fundraiser', both options would display different menu options after user logs in. A functional and validated form was created for the fundraisers to create multiple funds anytime they liked, for the donors then to be able to donate to any fund they wanted using a secure PayPal payment method. The website also included a copyright message at the bottom, a 'contact us', 'about us', and 'FAQ' pages for users to find out more about the website.

Backend: In this task I completed the main database of the website so user data can be uploaded to it securely without errors. To design the backend, I used phpMyAdmin MySQL database. I created the connection from the login and register to the database using PHP and SQL programming languages. I had to create a connection to the database first, then used SQL queries to validate each form so the right user information is uploaded. Validation also included secure measures such as if statements to avoid users from creating an account with similar username or email. Finally, I made sure the password uploaded to the database was encrypted to avoid any sort of data theft.

User acceptance test: In this task me and my group member made sure the website and the code were error free. For this, we tested each functionality on the website and recorded the results in a user acceptance table. The table included the function's requirement, such as login or register, and we would write what the requirements were for that function. After checking the requirements, we would write the expected output and the actual output, when the actual output matched the expected output, we would pass the test and declare it bug free.