CS1IAD Portfolio 3 Report

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# **Basic information**

Your Website URL: http://220181356.cs2410-web01pvm.aston.ac.uk

## Source code link (if applicable): https://github.com/D3m0nslay7/SoftDev-Website.git

## One registered user account:

|  |  |
| --- | --- |
| **Username** | **Password** |
| TestAccount | Test |

# **Brief Description of Technologies and Structure**

I used server side PHP only, and used client side JavaScript, jQuery, html, and CSS.

# **Implementation of the required functions:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Functions** | | |  | | --- | | **Main Source File(s)** | | Working | **Notes** |
| P1. View the basic information of all projects | projects.php | yes | Is the projects page |
| P2. Click one project in the list to view the project details | projects\_cards.php, project\_class.php, projects\_insert.php | yes | I combined all 3 source files, all of which are imported into projects\_cards.php |
| P3. Search all projects using title and starting date | projects\_cards.php, project\_class.php, projects\_insert.php | yes | I combined all 3 source files, all of which are imported into projects\_cards.php |
| P4. Register to become a registered user | register.php, registerform.js, user.php | yes | All 3, register simply handles the database side, register form deals with submitting the form and checking data and the user.php holds the form and the input fields |
| R1. Log in the system | User.php, login.php, loginform.js | yes | All 3 handle logging in, same as P4, login.php deals with database side, loginform deals with submitting and checking data, user php holds the form and input fields |
| R2. Add your project | panel.php createform.js create.php | yes | Panel holds the form, createform.js deals with validating and submitting, create.php deals with database |
| R3. Update your project | Panel.php editform.js edit.php | yes | Panel holds the form, editform.js deals with validating and submitting, edit.php deals with database |
| R4. Logout the system | Logout.php | yes | Logs user out by closing session and deleting all session vars |

# **Implemented security features**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Features** | | |  | | --- | | **Main Source File(s)** | | |  | | --- | | **Notes** | |
| Authentication | Login.php;  u-220181356/public\_html/user | Authentication done server side however inputs validated clientside. |
| Authorisation | Panel.php, create.php, edit.php, remove.php, login.php, register.php | Anywhere the user wasn’t allowed or not meant to be I Implemented a session check to kick the user from the website if the session variable wasn’t detected |
| Input Sterilization | sanitization.js | Sanitized inputs using javascript to look for certain inputs, also did it on php server side as a double defense. |
| CSRF (Cross-Site Request Forgery) protection | Loginform.js, registerform.js, createform.js, deleteform.js, editform.js | The code generates a CSRF token and adds it to the HTML form. When the form is submitted, the code validates the CSRF token. If the token is invalid, the form submission is cancelled, and an alert message is shown. This code helps prevent CSRF attacks on a website. |
| Hashed Passwords | Login.php, register.php | I hashed passwords before inputting them into the database to increase security, and never un-hashed them and used php password verify functions instead |

# **Notes to examiners (if applicable)**

You can only edit or remove project entries if you are the one that made them, this is to make sure no one can delete other people’s entries and could pose a security risk, this goes under authorisation.

Some changes need you to refresh the webpage, such as adding a project entry or editing one.  
you can only see the user panel if you are logged in.