

CS1IAD Portfolio 3 Report

Name: **Nrup Divecha**. Student ID Number: **220170202**

Basic information

Your Website URL: <http://220170202.cs2410-web01pvm.aston.ac.uk/>

Source code link (if applicable): https://github.com/akemii0/Aproject_Nrup

One registered user account:

Username	Email	Password
chris112	chris12@gmail.com	chris12345

Brief Description of Technologies and Structure

Specify both the server-side and client-side technologies used in your development and the structure (e.g. MVC) of your system.

- *I have used PHP and PDO library for server-side technology to do database connectivity. I have used HTML and CSS for the client-side technologies to do front-end development.*
- *Most of my coding file follow the MVC structure. The model part of the code makes connection to database and does queries. The connection is made using PDO database connection to my database to retrieve the data. The view part of the code uses HTML and CSS to display content on the page, for example, to display projects, register form, login form, etc. The controller part of the code allows the user to search and add project. It only displays the add project and logout button only when a user is logged on.*

Implementation of the required functions:

Functions	Main Source File(s)	Working	Notes
P1. View the basic information of all projects	<i>aproject.php</i>	<i>yes</i>	
P2. Click one project in the list to view the project details	<i>pdetails.php</i>	<i>yes</i>	
P3. Search all projects using title and starting date	<i>Aproject.php</i>	<i>yes</i>	
P4. Register to become a registered user	<i>register.php</i>	<i>yes</i>	
R1. Log in the system	<i>login.php</i>	<i>yes</i>	
R2. Add your project	<i>addproj.php, projectsub.php</i>	<i>yes</i>	
R3. Update your project	<i>editP.php</i>	<i>no</i>	<i>The edit button does not show up.</i>
R4. Logout the system	<i>logout.php, aproject.php</i>	<i>yes</i>	

Implemented security features

Features	Main Source File(s)	Notes
<i>Password hashing</i>	<i>Login.php</i>	<i>Passwords are hashed using the PHP password_hash function. The hash password is stored in the database and its hash there also.</i>
<i>SQL injection prevention</i>	<i>aproject.php, editP.php, register.php, login.php, pdetails.php, projectsub.php</i>	<i>SQL injection prevention is done using the prepare statements with bound parameters. This cleans data before used in query. This stops attacker to inject any malicious SQL commands into the query.</i>
<i>Cross-site scripting prevention</i>	<i>pdetails.php, editP.php, aproject.php</i>	<i>This prevention is done by using htmlspecialchars function to avoid special characters in the input done by user before showed on the webpage. Prevents malicious scripts from being injected into the page.</i>
<i>CSRF protection</i>	<i>aproject.php, addproj.php, register.php, login.php,</i>	<i>Cross-site request forgery protection is done by generating a unique for each form. This protection prevents an attacker from submitting a form without the user of the account consenting or having the knowledge.</i>

Notes to examiners (if applicable)

For the register form, please enter 8 or more characters for the password.