CS1IAD Portfolio 3 Report
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Basic information

Your Website URL: *https://210093030.cs2410-web01pvm.aston.ac.uk/viewcv.php*

Source code link (if applicable):   -

One registered user account:

Username	Password
Pepe	123456

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 HTML to make my website and used VirtualMin as the internal host server.

Implementation of the required functions:

Functions	Main Source File(s)	Working	Notes
P1. View the basic information of all cvs	*viewcv.php*	*yes*	
P2. Click one CV in the list to view the CV details	moredetails.php	*yes*	Through viewcv.php, you can click on "More details" which will redirect you to the specified content you clicked on.
P3. Search all CVs using first name, last name or key programming language	cvsearch.php	*yes*	Through viewcv.php, by searching and pressing the "search" button will lead to the cvsearch.php.
P4. Register to become a registered user	register.php	*yes*	After registering, the account is stored into the database and onto the list of CV's for the public to see, and the user can use the account to log in.
R1. Log in the system	index.php	*yes*	The user can log in by entering the correct details, once the user goes through, it redirects them to viewcv.php again.
R2. Update your CV	profile.php	*yes*	By going to profile the user can update the cv by entering every detail again.
R3. Logout the system	logout.php	*yes*	To logout, the user can press Log Out on the navigation bar.

Implemented security features

Features	Main Source File(s)	Notes
Hash Password	*register.php* *$password = isset($_POST['password']) ? password_hash($_POST['password'], PASSWORD_DEFAULT) : false;*	*Hash password was used to ensure the password was encoded to protect the user's privacy as an example of a user registered to this website has his password hashed like this:* $2y$10$DdUyLsC1/27h0neR5htuUetjDE.UMTsuOcM.ap8/4TL...
Handle injections	register.php $stat = $db->prepare("insert into cvs values(default,?,?,?,?,?,?)");	The prepare statement was used to make the SQL command execute safely which prevents SQL injection vulnerabilities.

Password Length	register.php
	
	else if (empty($_POST['password'])) {
	echo "<p style='color:#D81E3D'; >Please insert a Password!</p>
	";
	
	} else if (strlen($_POST['password']) < 6) {
	//IF PASSWORD IS LESS THAN 6 IT DOES NOT CREATE ACCOUNT
	echo "<p style='color:#D81E3D'; >Password must be 6 characters or more.</p>
	";
		This allows the password to be created with a certain length. In this case I made any type of password invalid if the user didn't have at least 6 characters. This makes the password more secure for the user and from being hacked.

Form Validation	register.php } catch (PDOexception $ex) { echo "<p style='color:#D81E3D'; >Sorry, a database error occurred! Make sure you don't leave any fields blank! </p> ";	For the form validation, if the user does NOT enter in every field, then it will catch the mistake and display it on the screen for the user to ensure to enter every detail on the form to get through.
Authentication	index.php if (password_verify($_POST['password'], $row['password'])) { //matching password	For authentication, the database will check if the password entered matches, and if it does not match, it will display and error saying the password is invalid for the user to see, but if it is correct, it will let the user through.

Notes to examiners (if applicable)

Everything works fairly well. If you try to update the profile more than once, you will need to log out each time you update it and log back in if you wanted to update it again. For example, if I am on account Danial, and go to profile and update my details and if now I updated it to Danial1, then I cannot update my profile again without logging out first. If you log out and log in as Danial1, now you can update your details again.

Another small note, you will need to re-enter every detail in the text fields for the update to be applied on profile.php.