



**VILNIUS UNIVERSITY
ŠIAULIAI ACADEMY**

BACHELOR PROGRAMME SOFTWARE ENGINEERING

Object Oriented Programming

Practical 6 (Six).

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Šiauliai,

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FINAL REPORT ON PHP FOR CREATING PASSWORD MANAGEMENT SYSTEM USING OBJECT ORIENTED PROGRAMMING

My report details the functions I have in my program, the work they do and how they are related to one another. How the work of one flows into another and I present print screen reports.

1. **ValidationPage.php:** This file contains my php logic for when a user signs up for the first time or logs in if they have an existing account.
2. **SignUpPage:** This contains my html page and how where it submits to.
3. **oopFramework.php:** This is a very elaborate class. In this class, I made sure to use the inheritance feature of OOP. The universal class declared is inherited by the sign up and log in subclasses. The subclasses have different functions for confirming passwords and emails in the database. Some functions here also returns user ID which is used to set the session variable.
4. **manageUserActions.php:** This file contains three different classes that are listed as: ManageDatabase, SecurePassword and GenerateSecurePassword classes. The ManageDatabase class contains functions that manages how data is handled in the database, whether to delete or add data to the database. The SecurePassword Class is responsible for handling the encryption and decryption mechanism. The GenerateSecurePassword if responsible for handling how dynamic constant iv is created on signup for all user.
5. **logInPage.html:** This is an html page that handles button to direct a user to sign up page if an account does not exist for the user and it most importantly gives a pathway for the user to log in to an already created account.
6. **homepage.php:** This is a very important php code that serves as the landing page for a logged in user. The user can create passwords here that is displayed and managed by the user. The table showing passwords that have been stored, including the social media account for which they are used, the type of passwords, and the timestamp is only displayed if user already have saved password. This page contains html and php codes.
7. **databaseInteraction.php:** This is a php page that deals with specifically with saving passwords created into the dedicated table which has been created to hold this information.
8. **customizedEcho.php:** This is a file that contains javascript codes that are echoed in different places with redirection to different pages and window javascript popup message.

WEB-BASED PASSWORD MANAGER

By Sunday Emmanuel Sanni

Create An Account

Already Have an Account?

[LOG IN](#)

Figure 1: Sign up Page

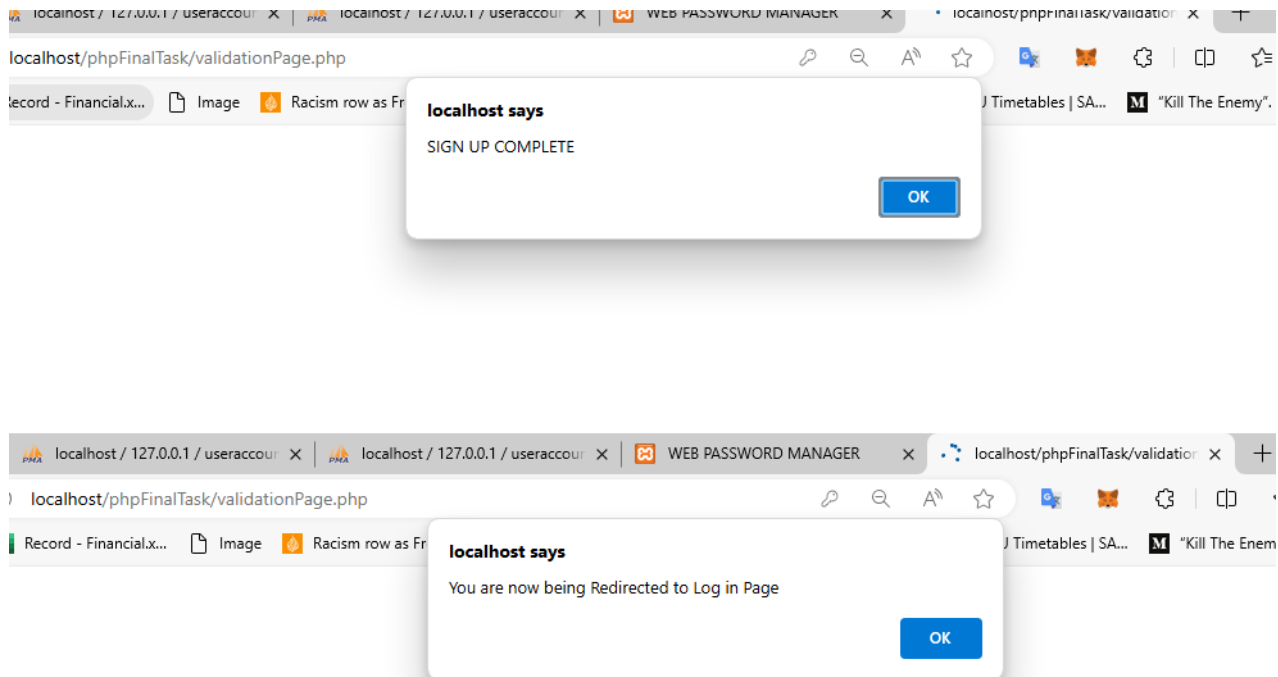


Figure 2: After log in, the two messages pop up one after the other and user is directed to log in in figure 3

WEB-BASED PASSWORD MANAGER

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Enter Below

Log in

Don't have an Account?

[SIGN UP](#)

Figure 3: Log in page

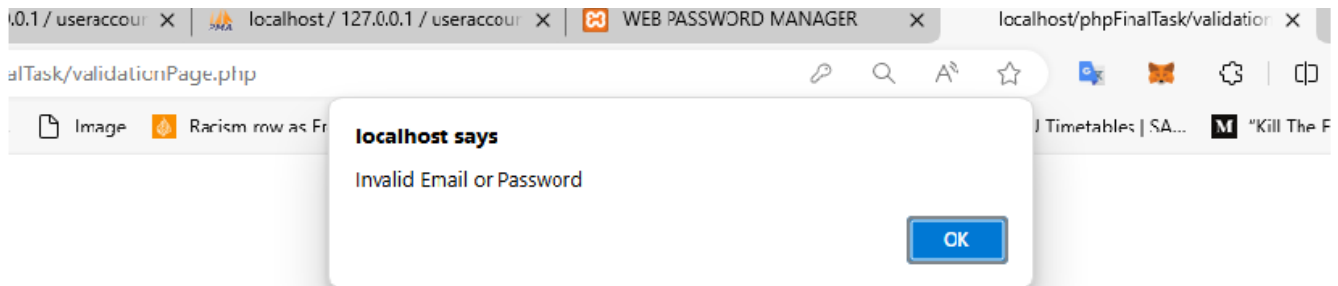


Figure 4: A failed log in

PASSWORD MANAGER

By Sunday Emmanuel Sanni

S/N	Social Account	Password	Password Type	Website	Time Stamp
1	Facebook	u7-96N;xBgE?	Desired	https://facebook.com	2024-05-20 20:39:19
2	Twitter	HjmoKU:2]	Desired	https://twitter.com	2024-05-20 20:39:55

Length of Password

UPPER CASE(A,B,C...Z) ☒

lower case(a,b,c...z) ☒

Numbers(1,2,3,...9) ☒

Special Characters(!&=?#[]{}...) ☒

Figure 5: A successful log in shows the saved password by user and the interface

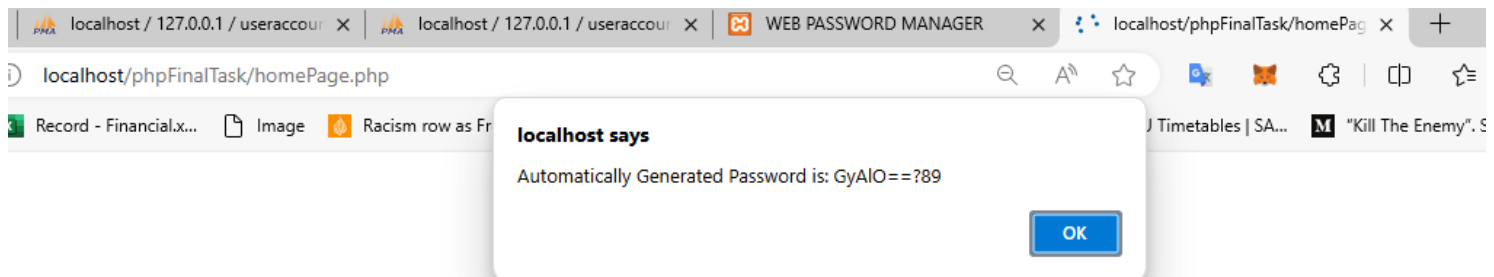


Figure 6: Autogenerated password when user enters length of password and click generate password

Server: 127.0.0.1 » Database: useraccounts » Table: userdata

Showing rows 0 - 1 (2 total, Query took 0.0007 seconds.)

`SELECT * FROM `userdata``

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	id	name	email	password	genlv
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Atinuke Helen Obadina	atinukealobiobadina@gmail.com	\$2y\$12\$ho3vrSt8FE.6RjJmb6BF1.SoxKfp0e/nNrimNk/1Pl...	xQ1iwE!61KQ/RN=D
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Sunday Emmanuel Sanni	sundaysanni@gmail.com	\$2y\$12\$Pa798L3s810uV330CE4LeuLUAfemcnohHIRBkrfV2i4...	6\$BLJWN86qB01lx

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Figure 7: Database for user sign up data, shows their stored hashed password and generated IV for encrypting passwords that will be managed. Unique user id is used in the next image below

Server: 127.0.0.1 » Database: useraccounts » Table: genpasswords

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (3 total, Query took 0.0011 seconds.) [TimeStamp: 2024-05-20 20:39:19... - 2024-05-20 21:26:36...]

`SELECT * FROM `genpasswords` ORDER BY `TimeStamp` ASC`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

id	social	website	type	password	Time Stamp
1	Facebook	https://facebook.com	Desired	xhJkOh/2TyntMg/vV5UwMQ==	2024-05-20 20:39:19
1	Twitter	https://twitter.com	Desired	QXsjG/g3j7i6yA65IR9N4g==	2024-05-20 20:39:55
2	Instagram	https://instagram.com	Desired	TZNpTey4gv/RSOqtMOMkNFhuuThUIEFmZ0f0gnLEPk=	2024-05-20 21:26:36

Figure 8: Shows all users stored encrypted passwords, their type, Time Stamp, social account, etc. Each users password is unique by the user id from figure 7

Figure 9: UML Diagram

