

Vulnerability Research on private program

1. No rate limit on otp verification process on user verification system which can lead to otp bypass.

Step to Reproduce:-

- 1) Create an account with your email.
- 2) It will send an otp to your email collect the otp.
- 3) Enter a random otp of 6 digit.Before submit intercept the post request which contain the otp.Sent it to intruder.
- 4) In intruder brute force the otp with number.(For this poc I just brute force the last three digits from 750 to 780 as I know the otp).
- 5) Then you will be able to bypass the otp.(otp never expired)

The screenshot shows the Burp Suite Professional interface during an 'Intruder attack' on the URL <https://api.opedemy.com>. The 'Payloads' tab is active, displaying the configuration for generating numeric payloads (Numbers) from 750 to 780. The 'Results' tab shows 31 requests made, with the 24th request being successful (status code 200). The response body contains the message "You are already Verified".

Request	Payload	Status code	Response...	Error	Timeout	Length	Comment
13	762	423			120	993	
14	763	423			141	993	
15	764	423			159	993	
16	765	423			164	994	
17	766	423			136	992	
18	767	423			146	990	
19	768	423			137	993	
20	769	423			101	995	
21	770	423			111	994	
22	771	423			109	998	
23	772	423			117	994	
24	773	423			107	993	
25	774	423			119	995	
26	775	423			122	999	
27	776	423			122	997	
28	777	423			127	989	
29	778	423			109	997	
30	779	423			108	993	
31	780	423			91	1003	

2. Weak password policy --> password validation happens on frontend only.

Step to Reproduce:-

- 1) Log in to your account.
 - 2) Go to account setting.
 - 3) Click password to reset password.
 - 4) Enter old,new and confirm password and intercept this request with burp .After intercepting this request modify the new password and confirm password in such a way so that there is no upper case letter.(In the password setting rules it was said one must be upper case letter,one number,one special character)
 - 5) Now try to log in with you new password.
 - 6) You will see that you can login.(That's mean password validation is occuring only client side)

3. Weak password policy --> password has no maximum length.

Step to Reproduce:-

- 1) Create an account with a password as long as possible containing a special character,a number and a capital letter.
 - 2) Try to login with that such long password,notice that you can login
 - 3) It will accept the password without validation the maximum length of password.

4. Broken Access Control --> any user can modify other users portfolio info

Step to Reproduce:-

1. Create two accounts.
2. Login in any account and go to account setting.
3. Try to modify the personal information and intercept this request with burp.In burp you will see user_id parameter in this put request.Note that user_id.
4. Now login into another account and go to account setting page.Try to modify the personal info like the previous one and capture the request in burp.Here you also see another user_id.Now change the user_id with the previous user_id.Modify any information you like and make a note the change you made.
5. Finally login into your first account and go to the account setting>personal info.Then you will notice that the information is modified by the information which you modify from 2nd account .
6. That's mean you can modify personal info of others.

The screenshot displays a dual-monitor setup. On the left monitor, the Burp Suite Professional interface is shown with a captured HTTP request. The request is a PUT to https://api.opedemy.com/api/v1/users/84. The response shows JSON data for a user profile, including fields like 'name', 'email', 'user_id', and 'bio'. On the right monitor, a browser window is open to the 'basic information' page of an account on the opedemy website. This page contains fields for 'First Name', 'Last Name', 'Birthdate', 'Living in', and 'Contact Information' (Email address and Phone Number). The 'First Name' field is populated with 'kjani'. Below the browser, the system tray shows icons for Creative Cloud and Apps for ph.

5. No rate limit otp varification for password reset.

Step to Reproduce:-

1. Go to signin page enter your email.
2. click the forgotten password.Then it will ask to enter your email.Enter the email.
3. You will notice an otp already sent to your email box note the otp.
4. After one minute click resent otp.It will again sent otp.
5. Now use the first otp .
6. Finally you can reset your password using old otp.(When 2nd otp was sent 1st otp should be invalid but in this case 1st otp still working).

The screenshot shows a mobile application interface for password reset. At the top left is a back arrow labeled "Go Back". The main title is "Reset your password". Below it is a placeholder text "Enter the new password for your Opedemy account.". A password input field is present, with the label "Password" above it and "New Password" inside. To the right of the input field is a visibility icon showing a lock symbol. Below the input field is a hint: "Hint: Minimum one uppercase letter, a number, a Special character, must be 9 characters and no repetitive words or common words.". A large blue button at the bottom is labeled "Save new password". Below the button, a link says "Have an account? [Log In here](#)". At the very bottom, there is a footer with the text "Call us for any assistance" followed by a phone icon and the number "+8801711651535".

6.File upload vulnerability

Step to Reproduce:

1. Log in and go to your account.
2. Go to My portfolio.
3. Try to upload any kind of file.
4. You will notice no restriction to upload a file.

7. Email injection modifying the first name reflect on email in email box.

Step to reproduce:-

1. Login to your account.
2. Go to My Account>> Account settings >>Personal Info.
3. Update your info.
4. Now logout
5. Go to login page again.
6. Click forgotten password and enter your email.
7. You will receive an email. Notice the email here you will see that the modification you made with your first name is reflected here and html tag also implemented here.(In our case we use `<h1> <i>` tag and it works here.)

Basic Information

First Name
`<h1><i>romolA</i></h1>`

Last Name
`<i>romola last</i>`

Birthday

Day Month Year

Living in
`</i>BD</i>`

Contact Information

Email address
romola9416@harinv.com

Phone Number
01478523690

[Save changes](#)



Verification Needed

Dear

romola

We have received a sign-in request from:

Account: **romola9416@harinv.com**

Time: **2025-04-12 08:17:15 GMT+6**

Location: **Dhaka, Bangladesh**

To ensure the security of your account, we've generated a One-Time Password (OTP) for you. **Your OTP is:**

4 0 9 3 4 1

This is valid for the next 10 minutes. Please enter the **OTP** to proceed with your action.

If you do not recognize the sign-in request, please ignore this email or contact our support team at support@opedemy.com.



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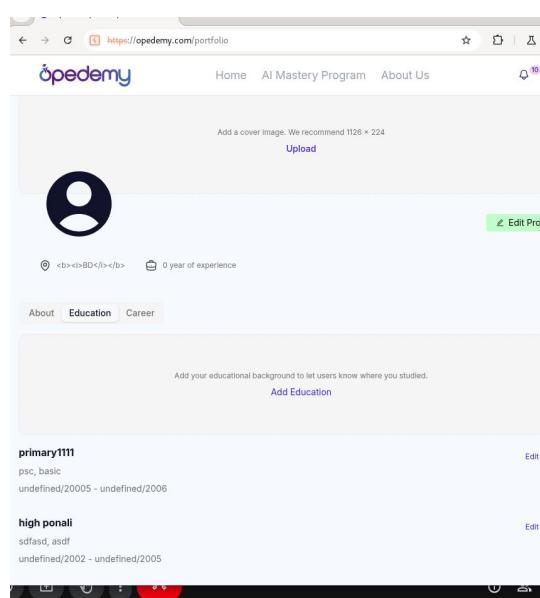
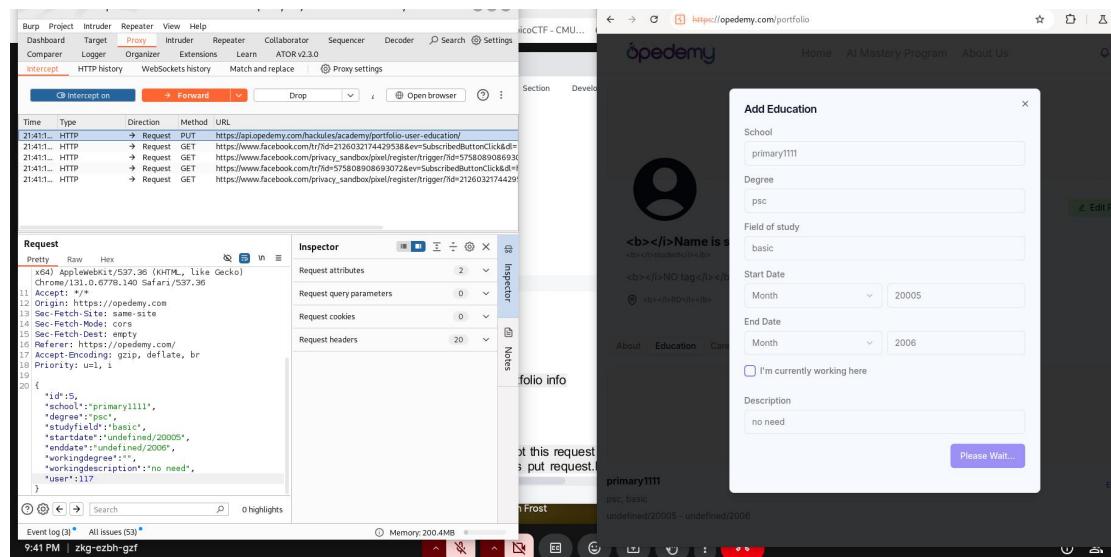
[Learn More](#)



8.Broken Access control-One student can modify other students info.

Step to Reproduce:-

1. Create two accounts.
 2. login to any account as you like.
 3. Go to My account>>My portfolio>>Education.
 4. Enter your info .(Follow step 2,3 and 4 for both accounts).
 5. Now you have educational info in both of your accounts.
 6. Login to any account and try to edit education info intercept this request.You will notice there is a put request and here you will see you modified info with your user id note this user id (not the only id).
 7. Now login to your 2nd account and edit your educational info and intercept this request.Here you will see your modified info with your user id.Now swap your use id with your previous user id and forward the request.
 8. Logout from your 2nd account and login to your 1st account and look your educational info.You will notice the modification you made for 2nd account is modified for 1st account.



9.Information Disclosure

Step to Reproduce:-

1. Visit “<https://api.opedemy.com/hackules/academy/>”

