# Universiti Selangor (UNISEL) E-student Portal Insecure Direct Object References (IDOR) Vulnerability (Apr 2022)

## **Description**

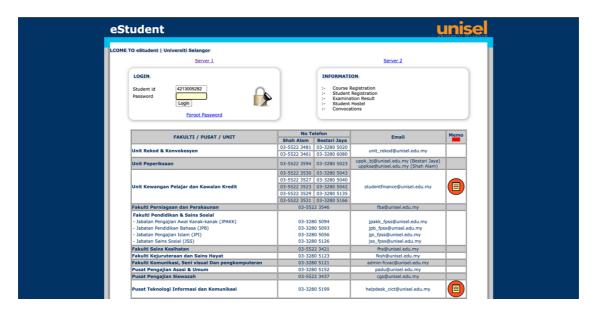
Users who have access to the system can change information about other users without their knowledge or will. This is due to the website storing the student ID on the user's side, which allows the user to change the value of it before sending the POST request. By doing this, we are able to change other users' personal details, such as passwords, and view sensitive information about them just by having their student ID.

#### **Tools**

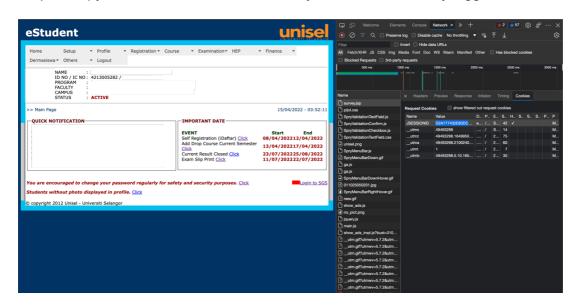
Postman

### POC (Proof-of-concept)

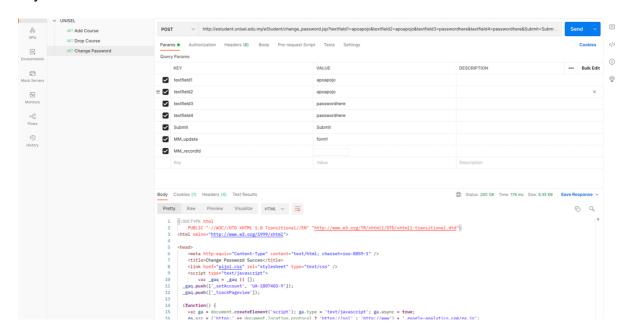
Step 1: Login as a user that you have access to. For example, now I am using my student ID which is **4213005282**.



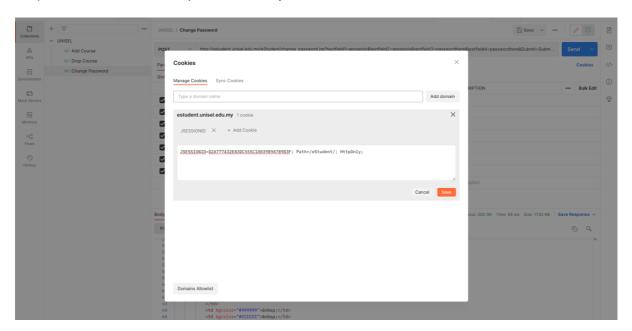
Step 2: Copy the JSESSIONID cookie once you have successfully logged in.



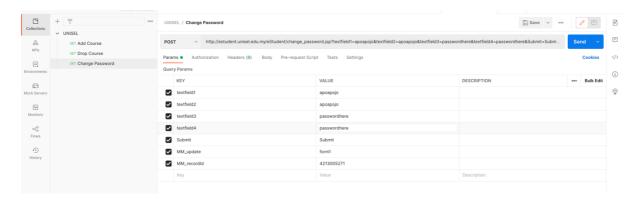
Step 3: Set Postman to send a POST request to eStudent/change\_password.jsp with POST keys shown below.



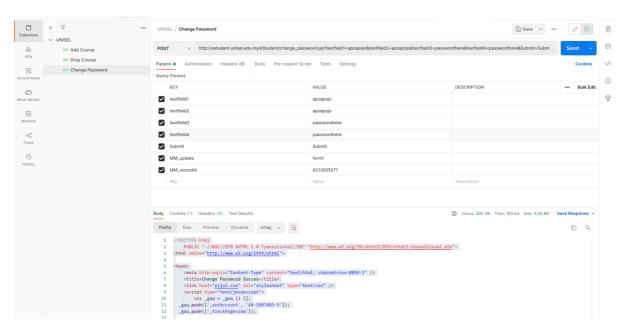
Step 4: Paste the cookies (JSESSIONID) in Postman cookies section.



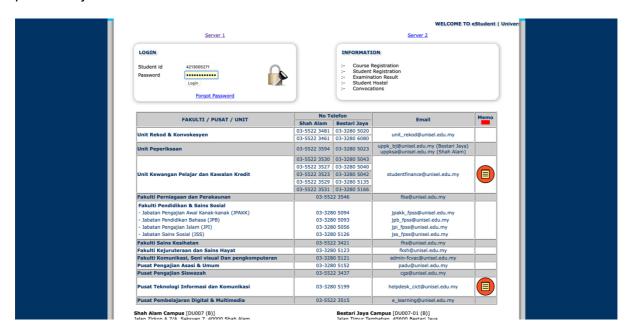
Step 5: Insert into **textfield3** and **textfield4** to the password that you desire. Insert into **MM\_recordId** the user/student ID that you want to change password for. For this example, I am using **4213005271** as my victim's student ID and I want to change victim's password to **passwordhere**. Do note that right now I am logged in as **4213005282** which is a totally different user.



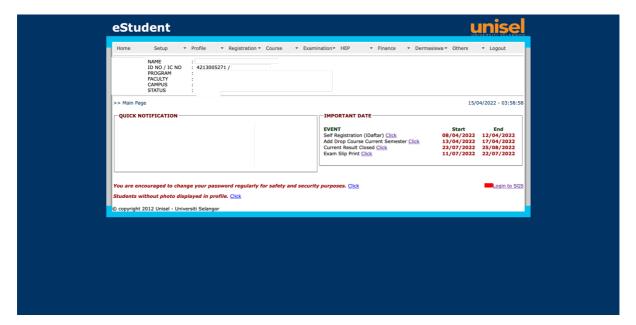
Step 6: Send the POST request and the body response should have the html syntax <title>Change Password Succes</title>



Step 7: Now, logout and try to enter the victim's student ID that you have changed the password just now.



Step 8: Voila! Now you are logged into the victim's account with the student ID **4213005271** and you are able to see various kinds of sensitive information.



## Suggested solutions/fixes

The system should not store the user's student ID in the user side of input (POST request) and make a request based on user's input.