

Universiti Selangor (UNISEL) E-student Portal
HTTP Request Interception Vulnerability (Apr 2022)

Description

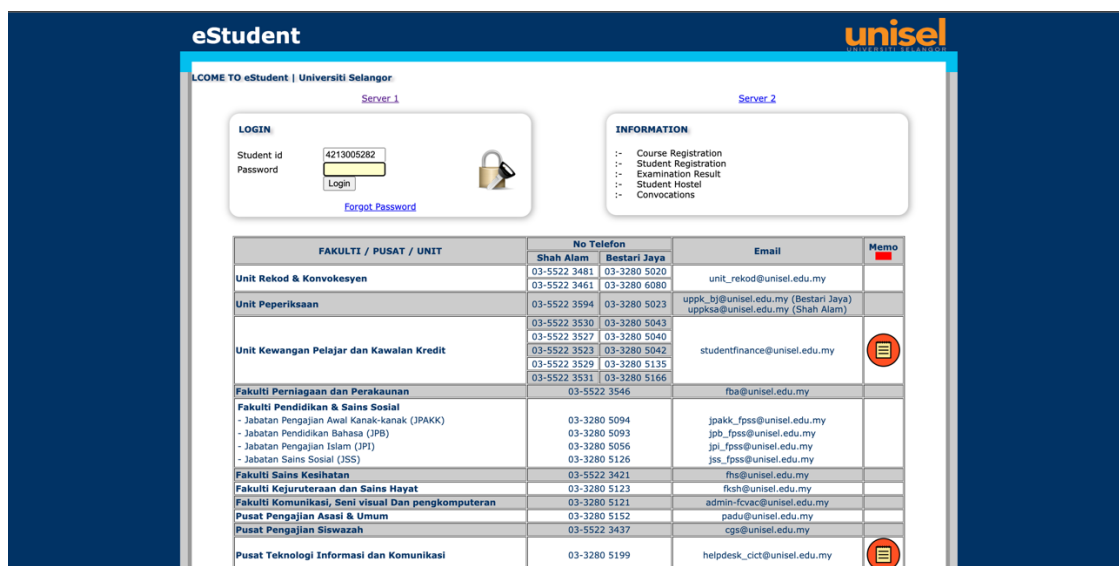
Users who have access to the system can change information about other users without their knowledge or will. This is due to the website storing the student ID on the user's side, which allows the user to change the value of it before sending the POST request. By doing this, we are able to change other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

Tools

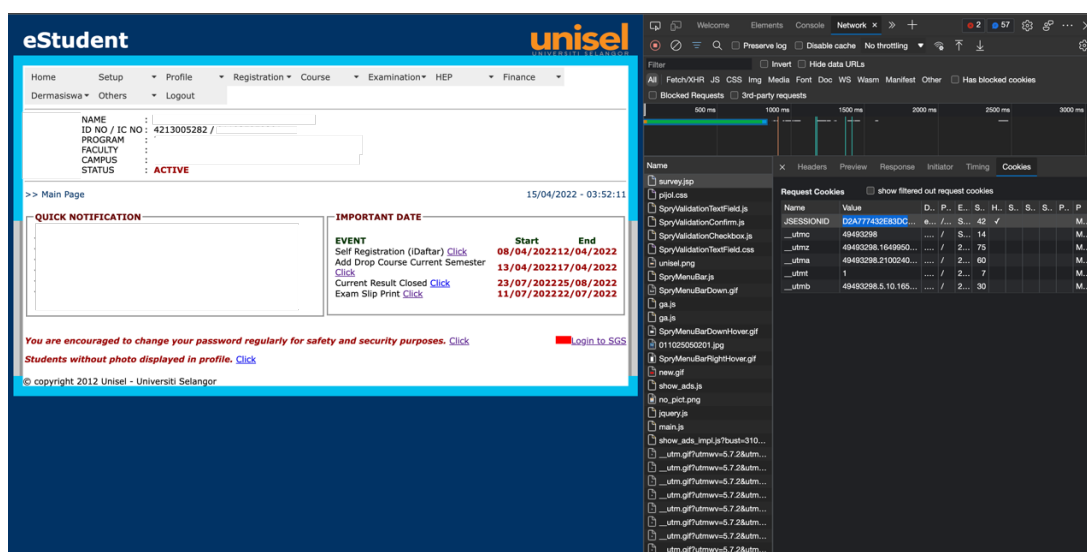
Postman

POC (Proof-of-concept)

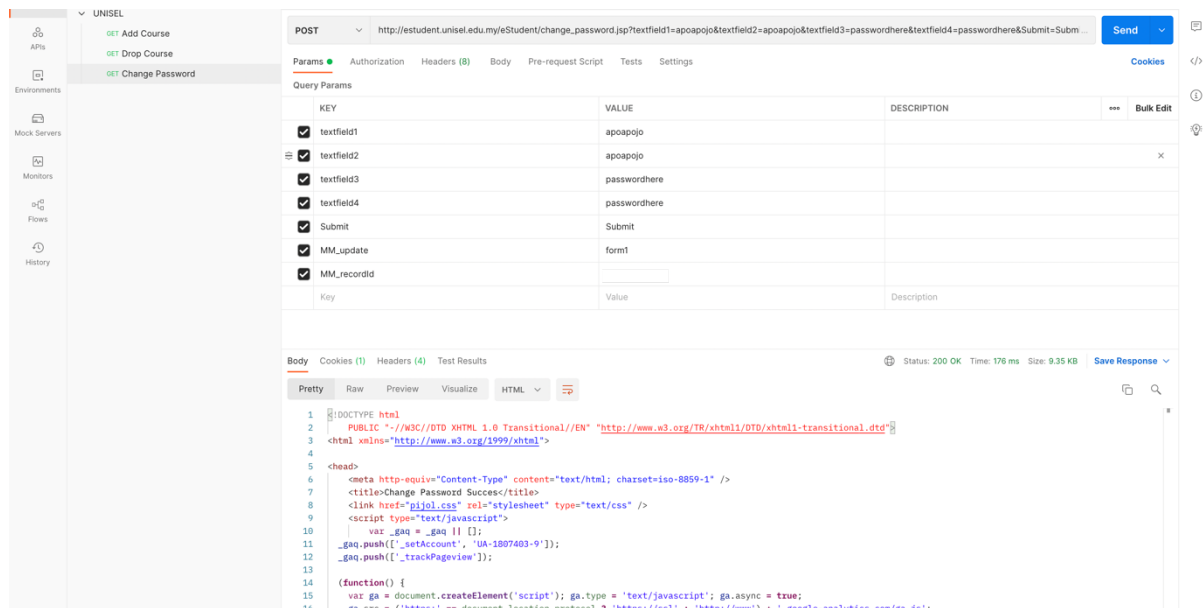
Step 1: Login as a user that you have access to. For example, now I am using my student ID which is **4213005282**.



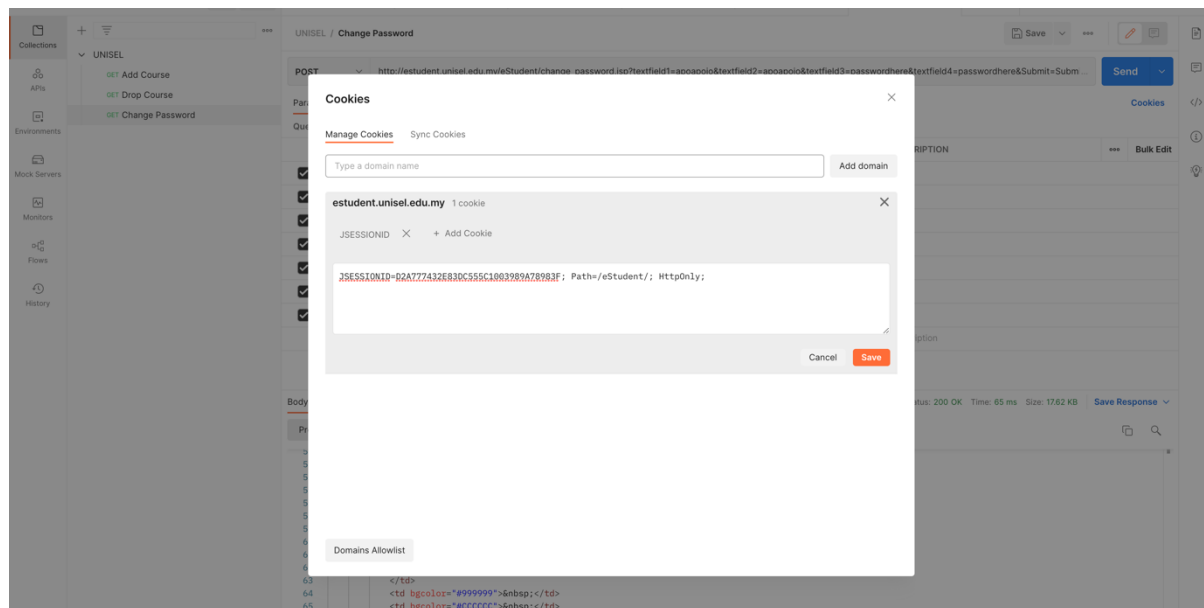
Step 2: Copy the **JSESSIONID** cookie once you have successfully logged in.



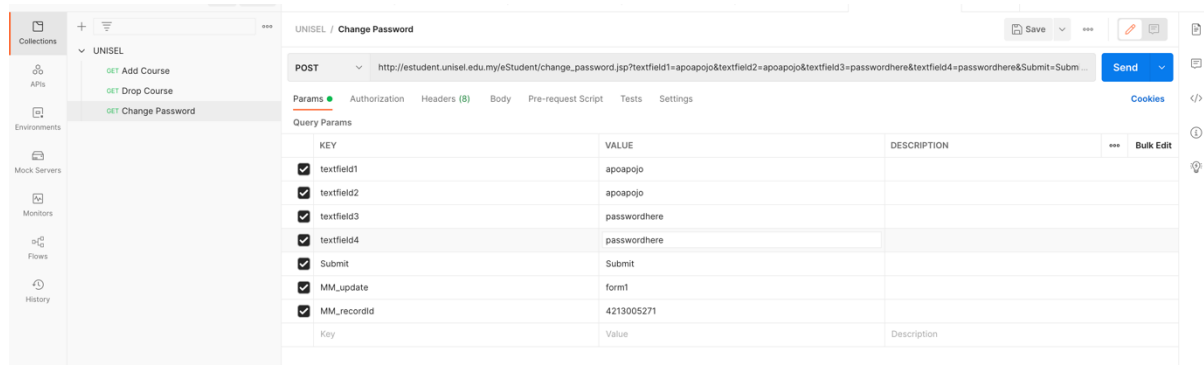
Step 3: Set Postman to send a POST request to eStudent/change_password.jsp with POST keys shown below.



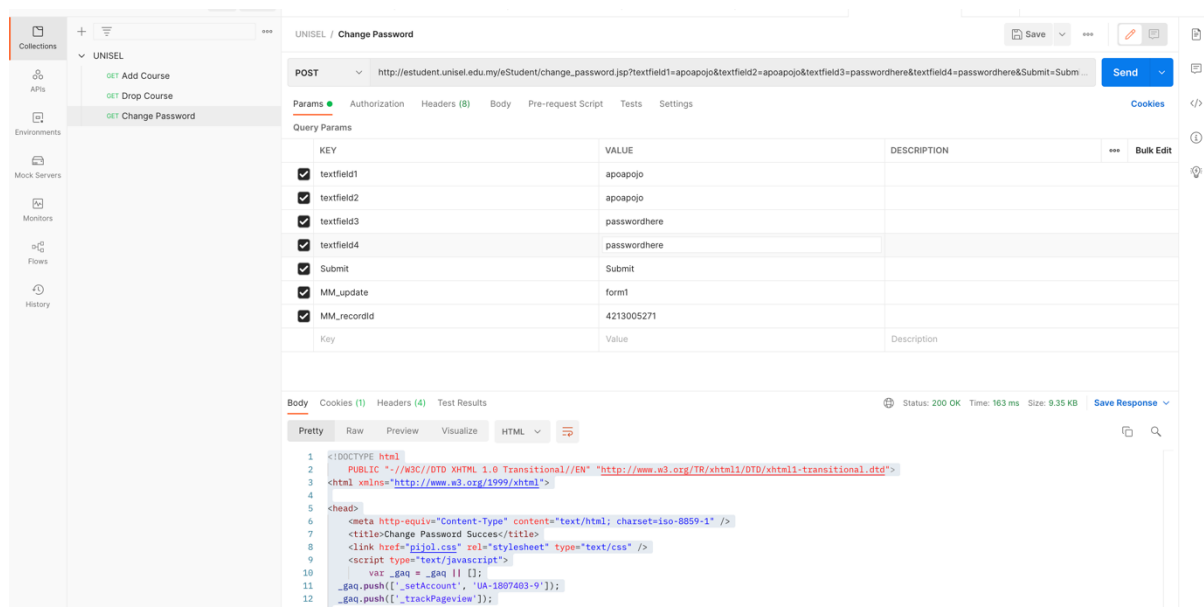
Step 4: Paste the cookies (**JSESSIONID**) in Postman cookies section.



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.

WELCOME TO eStudent | Universiti Selangor

Server 1

LOGIN

Student ID: 4213005271
 Password: [masked]
[Login](#)
[Forgot Password](#)

Server 2

INFORMATION

- Course Registration
- Student Registration
- Examination Result
- Student Hostel
- Convocations

FAKULTI / PUSAT / UNIT	No Telefon		Email	Memo
	Shah Alam	Bestari Jaya		
Unit Rekod & Konvokesyen	03-5522 3481 03-5522 3461	03-3280 5020 03-3280 6080	unit_rekod@unisel.edu.my	
Unit Peperiksaan	03-5522 3594	03-3280 5023	uppk_bj@unisel.edu.my (Bestari Jaya) uppk_sa@unisel.edu.my (Shah Alam)	
Unit Kewangan Pelajar dan Kawalan Kredit	03-5522 3530 03-5522 3527 03-5522 3523 03-5522 3529 03-5522 3531	03-3280 5043 03-3280 5040 03-3280 5042 03-3280 5135 03-3280 5166	studentfinance@unisel.edu.my	
Fakulti Perniagaan dan Perakaunan	03-5522 3546		fba@unisel.edu.my	
Fakulti Pendidikan & Sains Sosial				
- Jabatan Pengajian Awal Kanak-kanak (JPAKK)	03-3280 5094		jpakk_fpss@unisel.edu.my	
- Jabatan Pendidikan Bahasa (JPB)	03-3280 5093		jpb_fpss@unisel.edu.my	
- Jabatan Pengajian Islam (JPI)	03-3280 5056		jpi_fpss@unisel.edu.my	
- Jabatan Sains Sosial (JSS)	03-3280 5126		jss_fpss@unisel.edu.my	
Fakulti Sains Kesihatan	03-5522 3421		fhs@unisel.edu.my	
Fakulti Kejuruteraan dan Sains Hayat	03-3280 5123		fksh@unisel.edu.my	
Fakulti Komunikasi, Seni Visual Dan pengkomputeran	03-3280 5121		admin-fcvac@unisel.edu.my	
Pusat Pengajian Asasi & Umum	03-3280 5152		padu@unisel.edu.my	
Pusat Pengajian Siswazah	03-5522 3437		cgs@unisel.edu.my	
Pusat Teknologi Informasi dan Komunikasi	03-3280 5199		helpdesk_cict@unisel.edu.my	
Pusat Pembelajaran Digital & Multimedia	03-5522 3515		e_learning@unisel.edu.my	

Shah Alam Campus [DU007 (B)]
 Jalan Tiram & 7/8, Seksyen 7, 40000 Shah Alam

Bestari Jaya Campus [DU007-01 (B)]
 Jalan Timur-Tamohahan, 46600 Bestari Jaya

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.

eStudent

Home Setup Profile Registration Course Examination HEP Finance Dermasiswa Others Logout

NAME : [redacted]
 ID NO / IC NO : 4213005271 / [redacted]
 PROGRAM : [redacted]
 FACULTY : [redacted]
 CAMPUS : [redacted]
 STATUS : [redacted]

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QUICK NOTIFICATION

IMPORTANT DATE

EVENT	Start	End
Self Registration (Idaftar) Click	08/04/2022	12/04/2022
Add Drop Course Current Semester Click	13/04/2022	17/04/2022
Current Result Closed Click	23/07/2022	25/08/2022
Exam Slip Print Click	11/07/2022	22/07/2022

You are encouraged to change your password regularly for safety and security purposes. [Click](#)

Students without photo displayed in profile. [Click](#)

[Login to SGS](#)

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Suggested solutions/fixes

I would suggest the system to not store the user's student ID in the user side of input (POST request). The system should take important value such as student ID only from the user's session value.