



Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Spring, Year:2022), B.Sc. in CSE (Day)

Course Title: Operating System Lab
Course Code: CSE - 310 Section: 201 DF

Lab Project Name: Easy Student Portal And Teachers Information.

Student Details

	Name	ID
1.	Md. Obaydullah Khan	201002093
2.	Md Alip Ekram Prince	201002116

Submission Date : May 11, 2022
Course Teacher's Name : Mr. Tanoy Debnath

[For Teachers use only: **Don't Write Anything inside this box**]

<u>Lab Project Status</u>	
Marks:	Signature:
Comments:	Date:

Chapter 1

Introduction

1.1 Introduction

This Projects name is “**Easy Students Portal & Teachers Information**”.

This is a simple Shell Project that also contain file management system, self made caching system for fast data output , and also cover Shell scripting with basic linux command.

This is a project that can easily access **GUB Students Portal** & can show **GUB CSE Teachers Information** from terminal by just running a script and not going to GUB Student Portal Web Site.

This Project is completely ready for any linux base machine.

1.2 Design Goal

This project is made for solving a real life problem of GUB . In Time of Pre Registration as a student of Open Credit System we face many serious problems like teachers short name and section selection. In time of pre registration we got a list of section of our courses and sections. As our university have many respected faculty member we don't know every faculty very well & it is also trouble for new students. So, we have decided to make a system that easily find Teachers detatils from teachers **Short Name** . This also shows teachers details like his education , research , publication etc. and student can easily do all his work by not going our slow web based portal.

This Pre Registration System is very much connected with billing and pre requisite courses. So, also student have to see their result, billing and his profile. So we also added those In out Project.

Chapter 2

Implementation of the Project

2.1 Part BY Part Explanation

This project is a Shell Based Project so we have to run a script file.

After running this Project we will see 4 options. Those are Teachers Information, students portal, exit , and install dependencies.

As a shell project and that also have scrapping part so we have to install dependencies first, after installing dependencies or if the dependencies are already installed then the option will not be visible.

After going option 1 we will see 2 options, those are all teachers name list with their short name. If we chose option 1 then we will find all teachers name with their short name, and also this list will be store in local system that can make our caching system for fast data showing.

And if we choose search by short name then we can search teacher by their short name.

After input teachers short name we will see teachers full name , and his profile link.

Then we will find more options for seeing teachers profile like his education, research, publication etc.

If we choose student portal option then we have to log in students portal by giving id and password,

after that he can be able to see his profile , his billing status and his result, he can also see his result in short form and also can see full result by his choice.

After seeing all of his information he can be delete all information of him by logging out of his profile , after logging out all of his information will be deleted.

2.2 Code

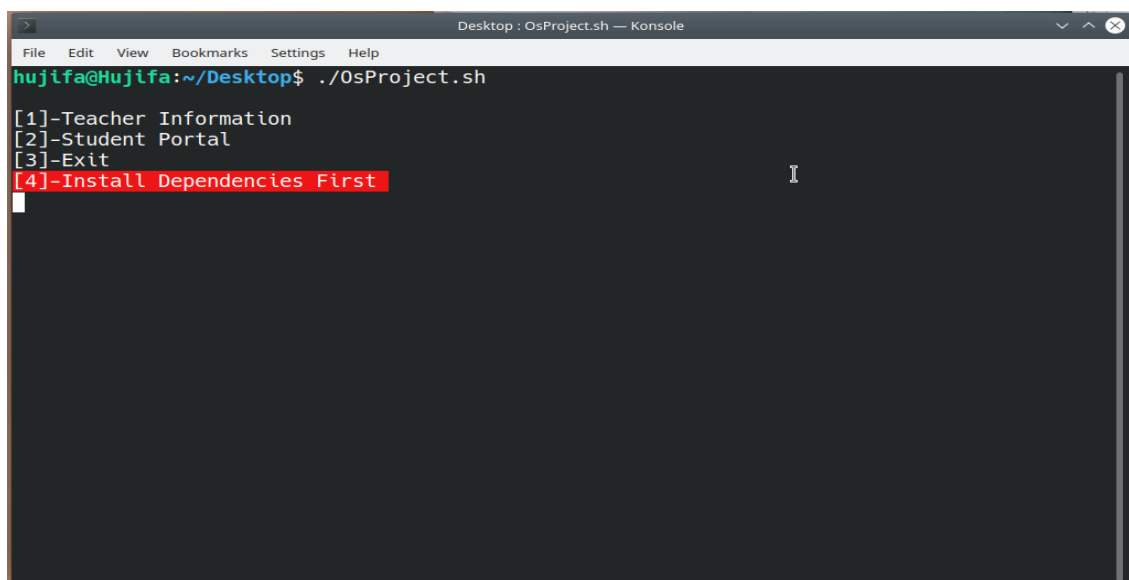
Due to very long code we just put the code link instead of code!!

Full code link : <https://ideone.com/KUGPQN>

Chapter 3

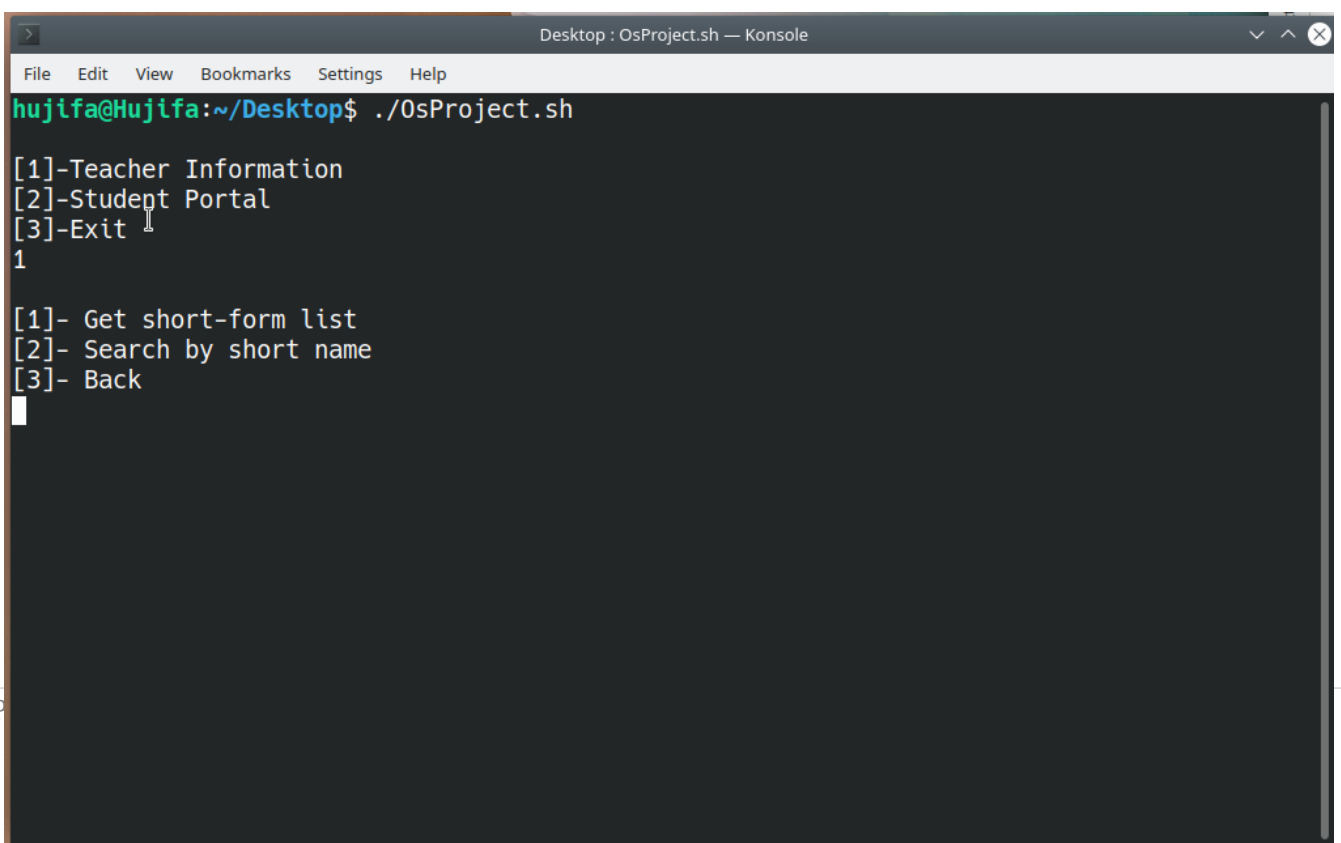
Performance Evaluation

3 Results



```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help
hujifa@Hujifa:~/Desktop$ ./OsProject.sh

[1]-Teacher Information
[2]-Student Portal
[3]-Exit
[4]-Install Dependencies First
```



```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help
hujifa@Hujifa:~/Desktop$ ./OsProject.sh

[1]-Teacher Information
[2]-Student Portal
[3]-Exit
1

[1]- Get short-form list
[2]- Search by short name
[3]- Back
```

```
Desktop : bash — Konsole
File Edit View Bookmarks Settings Help
Mr. Shabbir Mahmood = SM
Mr. Palash Roy = PR
Zeseya Sharmin = ZS
Mr. Md. Moshir Rahman = MMR
Md. Sultanul Islam Ovi = MSIO
Monoshi Kumar Roy = MKR
Ms. Fatema Akter = FA
Mr. Tanoy Debnath = TD
Md. Ashiqussalehin = MA
Ms. Nishat Jahan Nishi = NJN
Ms. Romana Yesmin = RY
Md. Rafiqul Islam = MRI
Ms. Jakobin Alam Khan = JAK
Mr. Mainuddin Ahmed = MA
Ms. Mahmuda Rahman = MR
Mr. Md. Gulzar Hussain = MGH
Md. Abdullah Al Arif = MAAA
Mr. Mozdaheer Abdul Quader = MAQ
Mr. Montaser Abdul Quader = MAQ
Mr. Md. Mamunur Rahman = MMR
Mr. Md. Rajibul Palash = MRP
Ms. Rusmita Halim Chaiti = RHC
Amena Zahan = AZ
Mr. Saurav Chandra Das = SCD
hujifa@Hujifa:~/Desktop$
```

```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help
[3]-Exit
1
[1]- Get short-form list
[2]- Search by short name
[3]- Back
2
Enter the short form: TD
-----
Full Name: Mr. Tanoy Debnath
Profile Link is: https://green.edu.bd/faculty-profile/dept-of-cse/mr-tanoy-debnath/
All the file are already download in your machine
-----
Do you want to know more about Mr. Tanoy Debnath ?
[1]-Education
[2]-Experience
[3]-Publication
[4]-Research
[5]-Back to Teachers Portal
```

```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help

1
Education Qualification:
-----

Doctor of Philosophy (PhD):
Duration:
  2010-2013
Institute:
  University of Padova, Italy
School:
  Doctoral School of Information Engineering
Supervisor:
  Prof. Michele Zorzi
Master:
Duration:
  2007-2009
Institute:
  International Islamic University Malaysia (IIUM), Malaysia
Department:
  Department of Information Engineering
Division:
  First Class with Honors
Supervisor:
  Prof. Farhat Anwar
```

```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help

2
Experinces
-----

Professor
, Department of Computer Science & Engineer,
Green University of Bangladesh, Dhaka, Bangladesh
, Jan.'2021-till date
Ass. Professor
, Faculty of Computing (previously called Faculty of Computer Systems & System Engineering
),
University Malaysia Pahang, Gamabang, Kuantan, Pahang, Malaysia,
Oct.'2015-Jan.'2021
Assistant Professor
, Faculty of Communication and Information Technology,
University Tunku Abdul Rahman, Kampar, Perak, Malaysia,
Apr.'2015-Oct.'2015
Assistant Professor
, Department of Computer Science,
American International University-Bangladesh (AIUB), Banani, Dhaka, Bangladesh
, Jan.'2013-Apr.'2015
Research Assistant
,
Department of CIE, IIUM, Gombak, KL, Malaysia
```

```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help
hujifa@Hujifa:~/Desktop$ ./OsProject.sh

[1]-Teacher Information
[2]-Student Portal
[3]-Exit
2

[1]-Billing Status
[2]-Result
[3]-Profile
[4]-Login
[5]-Back
█
```

```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help
hujifa@Hujifa:~/Desktop$ ./OsProject.sh

[1]-Teacher Information
[2]-Student Portal
[3]-Exit
2

[1]-Billing Status
[2]-Result
[3]-Profile
[4]-Login
[5]-Back
1

You dont set your student id,password yet!

Want to login? [y/n]█
```

```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help

.....
Extracting your result ...
.....

Semester: 221 (Spring 2022) Student: 201002093 Md Obaydullah Khan Adviser: Mohammad Ehsan
Shahmi Chowdhury
.....

CGPA:
3.326

Total Credit Hours completed :
72.0

Number of Courses Completed Before This semester :
32

Number of Courses Completed in This semester :
0

Total Number of Courses Completed :
32
```

```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help

201002093

Md Obaydullah Khan

CSE(Regular)

Tel/Mobile
01791423784
Active Status
Active

University Mail
N/A
Payment Status
Ok

Personal Mail
Registration Status
Complete

Present Address
House: -
Vill: Notun Bhanga Bari
```



```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help

201002093

Md Obaydullah Khan

CSE(Regular)

Tel/Mobile
01791423784
Active Status
Active

University Mail
N/A
Payment Status
Ok

Personal Mail
Registration Status
Complete

Present Address
House: -
Vill: Notun Bhanga Bari
```

```
Desktop : OsProject.sh — Konsole
File Edit View Bookmarks Settings Help

[1]-Billing Status
[2]-Result
[3]-Profile
[4]-Welcome, Md Obaydullah Khan! Want to Logout?
[5]-Back
4
Working on logout..wait a seconds....

Deleting Profile...
Deleting result.html...
Deleting bill.html...
Deleting profile.txt...

Logout complete!

[1]-Billing Status
[2]-Result
[3]-Profile
[4]-Login
[5]-Back
```

Chapter 4

Conclusion

4.1 Discussion

This shell scripting project is a simple but working project . This project will be very helpful to the students at the time of pre registration or result cause that time our web based portal is very busy and don't work properly and our portal goes slower than dhaka city traffic system.

So, we hope that this unique and linux based shell program will help students to overcome from this trouble.

4.2 Practical Implications

This project is real life problem based project so, we can easily implement for practical uses. But for that there is a quite problem here cause all off the people in Bangladesh are not linux user. So, others os users cant use it, for practical Implications we have to update it for all os users.

This project also run in terminal thats seems difficult for many peoples, so we will try to make this project GUI or Graphical User Interface base Project that people can easily use this project.