Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
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Course Title: Operating System Lab
Course Code: CSE-310 Section: 201_DK

Lab Project Name: Student Management System using Shell Script language in Ubuntu

Student Details

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Submission Date : 12/05/2022
Course Teacher's Name : Md. Mamunur Rahman

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

Lab Project Status

Marks: …… **Signature: .....**

Comments: ..... **Date: .....**

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Chapter 1

Introduction

1.1 Introduction

A Student Management System is also known as a Student Information System (SIS). These systems work to coordinate scheduling and communications between faculty regarding students. Student Management System is to manage the details of Profiles, Logins, database. It manages all the information about Profiles, Student database. The Name of Project is Student Management System (GUB Portal).Where there will be a log in system. After successful login the user will get access to Do their task. And all the task will be academic related.

1.2 Design Goals/Objective

Student Management System (SMS) is a solution tool that is designed to track, maintain and manage all the data The project aims and objectives that will be achieved after completion of this project is discussed in this subchapter. The aims and objectives are as follow:

- Try to make simple teachers kroner.
- Help teacher to do their academic work easily.
- Try to do all the academic work in one place.

Chapter 2

Design/Development/Implementation of the Project

2.1 Procedure

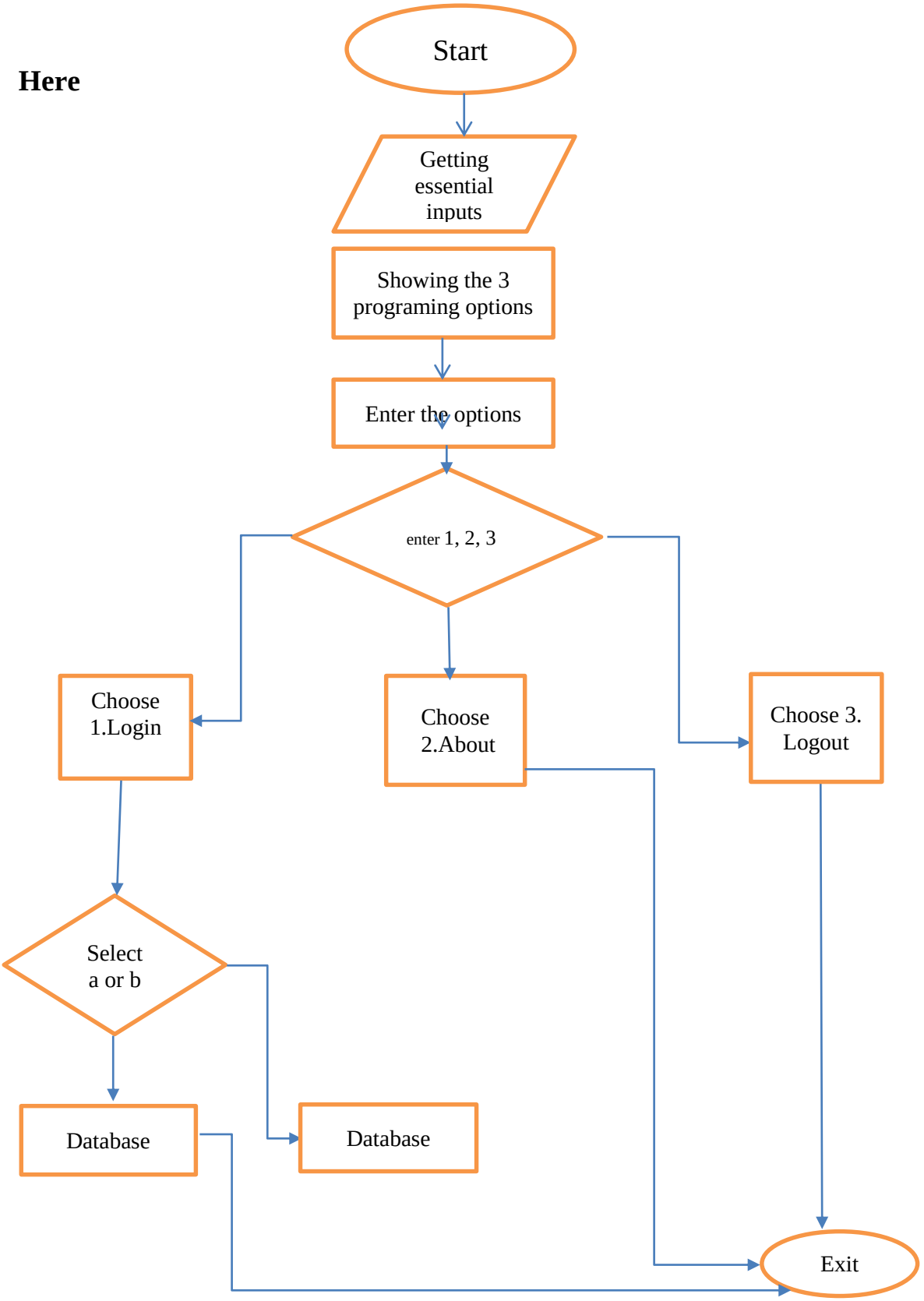
We divided our procedure in some subsections. The procedure will be known after reading the subsections.

2.1.1 Getting Ready

In this phase we collected all the required resource required and set up our environment.
We used ubuntu to implement the Student Management System.

2.1.2 Flowchart

Here



2.2 Implementation

In this following the procedure we had successfully implemented the Student Management

```
clear
figlet -f digital "Student Management System" -c | lolcat
echo "1.Log In"
echo "2.About"
echo "3.Exit"
teacher() {
clear
echo "1.View the database"
echo "2.View Specific Records"
echo "3.Add Result "
echo "4.Delete Result"
echo "5.View Evaluation"
echo "6.Log Out"
echo "Enter Your Choise:"
read choise
case $choise in

1)cat $db
echo "Do you want to continue? "
read i
if [ $i == "yes" ]
then
clear
figlet -f digital "Student Management System" -c | lolcat
teacher
fi;;

2)echo "Enter Student Id: "
read id
grep -i "$id" $db
echo "Do you want to continue?"
read i
if [ $i == "yes" ]
then
clear
figlet -f digital "Student Management System" -c | lolcat
teacher
fi;;

3)echo "Enter Student id : "
read sid
echo "Enter Name : "
read snm
echo "Enter Semester: "
read semester
echo "Total number of courses: "
read num
for ((i=1; i<=num; i++))
do
read -p "Enter course-$i: " course[i]
done
```

```
52
53 for ((j=1; j<=num; j++))
54 do
55 read -p "Enter Result of course-$j: " result[j]
56 done
57 echo -e "Student ID: $sid  Student Name: $snm  Result of the semester: $semester  Total
58 corurse completed: $num  Name of the coueses: ${course[@]}  Result of the courses:
59 ${result[@]}">>$db
60 echo -e "Student ID: $sid  Student Name: $snm  Result of the semester: $semester  Total
61 corurse completed: $num  ${course[@]}  ${result[@]}">>$db
62 echo -e "$sid  $snm  $semester $num  ${course[@]}  ${result[@]}">>$db
63 echo "Do you want to continue?"
64 read i
65 if [ $i == "yes" ]
66 then
67 clear
68 figlet -f digital "Student Management System" -c | lolcat
69 teacher
70 fi;;
71
72 4)echo "Enter Id: "
73 read id
74 grep -v "$id " $db > tmpfile && mv tmpfile $db
75 echo "Record Deleted. "
76 cat $db
77 echo "Do you want to continue?"
78 read i
79 if [ $i == "yes" ]
80 then
81 clear
82 figlet -f digital "GUB Portal" -c | lolcat
83 teacher
84 fi;;
85
86 5)echo "Enter Teacher Name: "
87 read t_name
88 grep -i "$t_name" $db
89 echo "Do you want to continue?"
90 read i
91 if [ $i == "yes" ]
92 then
93 clear
94 figlet -f digital "GUB Portal" -c | lolcat
95 teacher
96 fi;;
97 esac
98 }
99
100 student(){
101 echo "1.View Result"
102 echo "2.Teacher Evaluation"
103 echo "3.Pre-Resistration"
104 echo "4.View Pre-Resistration"
105 echo "5.Log Out"
106 read choise
107 case $choise in
108
```

```
1)echo "Enter Student Id: "
read id
grep -i "$id" $db
echo "Do you want to continue?"
read i
if [ $i == "yes" ]
then
clear
figlet -f digital "Student Management System" -c | lolcat
student
fi;;

2)echo "Enter Teacher Name: "
read t_name
echo "Enter Section: "
read sec
echo "Enter Comments: "
read comments
echo "Enter Institution Name "
read sins
echo -e "$t_name \t Institution Name: $sins \t Course Section: $sec \t Comments:
$comments">>$db
echo "Do you want to continue?"
read i
if [ $i == "yes" ]
then
clear
figlet -f digital "Student Management System" -c | lolcat
student
fi;;

3)echo "Enter your student id : "
read sid
echo "Enter Name : "
read snm
echo "Enter Section: "
read section
echo "How many course you want to take: "
read num
for ((i=1; i<=num; i++))
do
read -p "Enter course-$i: " course[i]
done
echo -e "Student Id: $sid \t Total Course Taken: $num \t Selected section: $section \t
Selected courses: ${course[@]} ">>$db_student.txt
echo "Do you want to continue?"
read i
if [ $i == "yes" ]
then
clear
figlet -f digital "Student Management System" -c | lolcat
student
fi;;

4)echo "Enter Your ID: "
read id
grep -i "$id" $db_student.txt
```

```
166 echo "Do you want to continue?"
167 read i
168 if [ $i == "yes" ]
169 then
170 clear
171 figlet -f digital "Student Management System" -c | lolcat
172 student
173 fi;;
174 esac
175 }
176
177 echo "Choose the option between 1/2/3"
178 read choose
179 if [ $choose -eq 1 ];
180 then
181 figlet -f slant "Log In" -c | lolcat
182 echo "a.Student Log In"
183 echo "b.Teachers Log In"
184 echo "Your choice between a/b"
185 read cho
186 if [ $cho == "a" ];
187 then
188 echo "Enter Student ID:"
189 read id
190 echo "Enter Password : "
191 read pass
192  if [ $id == "201002468" ] && [ $pass == "jannat" ];
193  then
194  echo "Login Success! "
195  echo "Enter name of database :"
196  read db
197  student
198  else
199  echo "Login Failed! "
200  fi
201  fi
202
203 if [ $cho == "b" ];
204 then
205 echo "Enter username:"
206 read user
207 echo "Enter Password : "
208 read password
209  if [ $user == "Rahman" ] && [ $password == "12345" ];
210  then
211  echo "Login Success! "
212  echo "Enter name of database :"
213  read db
214  teacher
215  else
216  echo "Login Failed! "
217  fi
218  fi
219  elif [ $choose -eq 2 ];
     then
     figlet -f digital "Project By Jannatul Ferdeous " -c | lolcat
     else
```

```
exit
fi
```

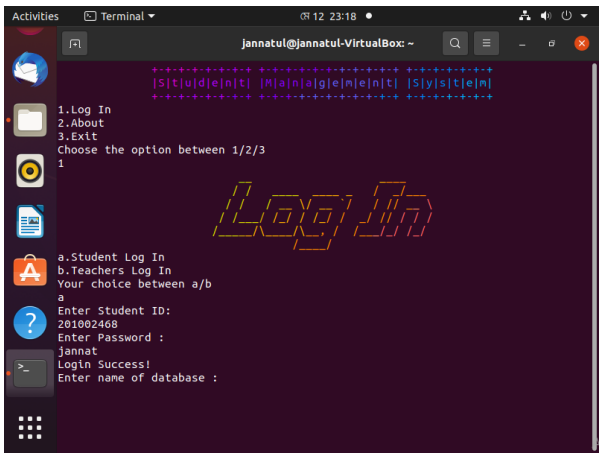
Chapter 3

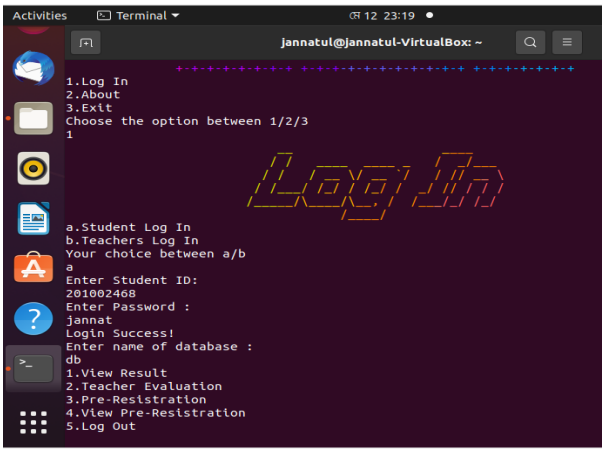
Performance Evaluation

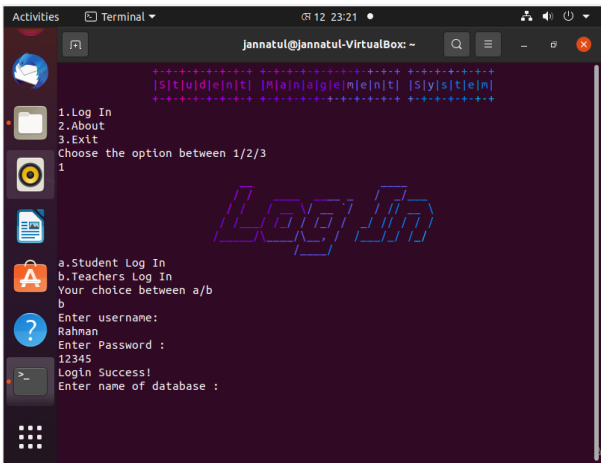
3.1 Results and Discussions

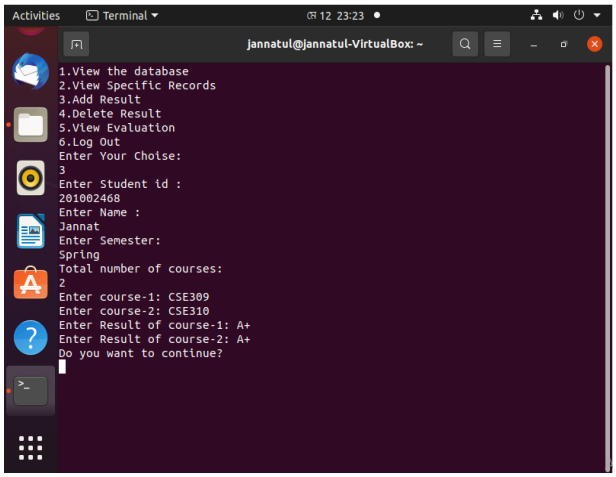
3.1.1 Results

After completing all steps and objects we got the desired and satisfied result. We were able to grasp the core requirement of our project and able to Implement our project which is Student management system.









3.1.2 Analysis and Outcome

Although we finished our project as we desired but there were a lot of obstacles that we had to overcome during making the project. Some of the main obstacles were:

a) We faced some problem in implementing part.
b) Also faced some problem when we run our code because lagging.
c) When user put some value the program work very slowly.

Chapter 4

Conclusion

4.1 Introduction

We basically decided to make Student management System project because it helps both Students and Teachers. This project also helps the institutional workload. In this project we have tried to add more features. But there is a problem because as we implemented this project using shell script so we did no add any Database system which is little bit critical for us. Mainly we focus that we can make a portal system Student and teacher both can login in this portal system.

4.1 Practical Implications

Student management System is basically use for institutional workload. We can also call as portal System. Here,

- Can be use in any Educational Institute.
- Both Student and Teacher can use.
- All options are in one place.
- Updatable according to our need.
- Simple & easy to use.

4.2 Scope of Future Work

This project has a lot of potentiality.

1. By using this project an institution can have better utilization of time & resources.
2. This project certainly will enhance productivity.
3. This project will improve inter-relations between Departments.
4. So given the facts, if the logic behind this project is on point then this project will run perfectly and as a result any institution would definitely want to buy this project.

So, it is clear that this project will help us personally and professionally.

References

[1] https://tuiopay.com/blog/what-is-a-student-management-system/.

[2] https://www.jotform.com/blog/student-management-systems/