



Green University of Bangladesh
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Faculty of Sciences and Engineering
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Course Title: Operating System Lab
Course Code: CSE-310 Section: 201_DL

Lab Project Name: GUB Portal Management System

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Submission Date : 14/05/2022
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[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 Portal Management System is also known as a Student & Teacher Information System . 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 GUB Portal Management System. 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

GUB Portal Management System 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

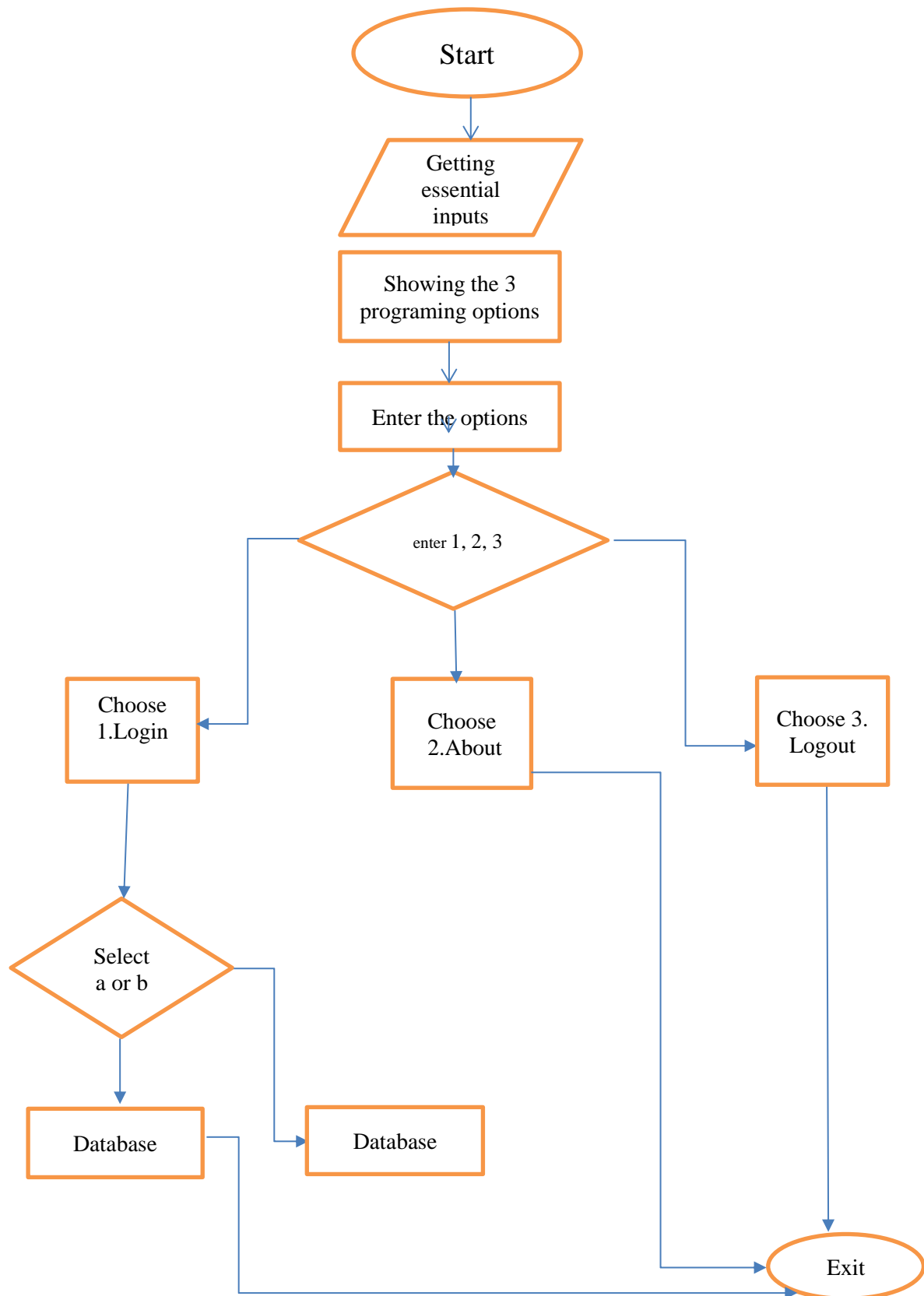
We divided our procedure in some subsections. The procedure will be known after reading the subsections.

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 GUB Portal Management System.



2.1.2 Flowchart



2.2 Implementation

In this following the procedure we had successfully implemented the GUB Portal Management System-

```
1 clear
2 figlet -f digital "Welcome to GUB Portal" -c | lolcat
3 echo "1.Log In"
4 echo "2.About"
5 echo "3.Exit"
6 teacher() {
7 clear
8 echo "1.View the database"
9 echo "2.View Specific Records"
10 echo "3.Add Result "
11 echo "4.Delete Result"
12 echo "5.View Evaluation"
13 echo "6.Log Out"
14 echo "Enter Your Choise:"
15 read choise
16 case $choise in
17
18 1)cat $db
19 echo "Do you want to continue? "
20 read i
21 if [ $i == "yes" ]
22 then
23 clear
24 figlet -f digital "GUB Portal" -c | lolcat
25 teacher
26 fi;;
27
28 2)echo "Enter Student Id: "
29 read id
30 grep -i "$id" $db
31 echo "Do you want to continue?"
32 read i
33 if [ $i == "yes" ]
34 then
35 clear
36 figlet -f digital "GUB Portal" -c | lolcat
37 teacher
38 fi;;
39
40 3)echo "Enter Student id : "
41 read sid
42 echo "Enter Name : "
43 read snm
44 echo "Enter Semester: "
45 read semester
46 echo "Total number of courses: "
47 read num
```

```

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

```

```

105 echo "Do you want to continue?"
106 read i
107 if [ $i == "yes" ]
108 then
109 clear
110 figlet -f digital "GUB Portal" -c | lolcat
111 student
112 fi;;
113 2)echo "Enter Teacher Name: "
114 read t_name
115 echo "Enter Section: "
116 read sec
117 echo "Enter Comments: "
118 read comments
119 echo "Enter Institution Name "
120 read sins
121 echo "$t_name \t Institution Name: $sins \t Course Section: $sec \t Comments:
122 $comments">>$db
123 echo "Do you want to continue?"
124 read i
125 if [ $i == "yes" ]
126 then
127 clear
128 figlet -f digital "GUB Portal" -c | lolcat
129 student
130 fi;;
131 3)echo "Enter your student id : "
132 read sid
133 echo "Enter Name : "
134 read snm
135 echo "Enter Section: "
136 read section
137 echo "How many course you want to take: "
138 read num
139 for ((i=1; i<=num; i++))
140 do
141 read -p "Enter course-$i: " course[i]
142 done
143 echo -e "Student Id: $sid \t Total Course Taken: $num \t Selected section: $section \t
144 Selected courses: ${course[@]} ">>$db_student.txt
145 echo "Do you want to continue?"
146 read i
147 if [ $i == "yes" ]
148 then
149 clear
150 figlet -f digital "GUB Portal" -c | lolcat
151 student
152 fi;;
153 4)echo "Enter Your ID: "
154 read id
155 grep -i "$id" $db_student.txt
156 echo "Do you want to continue?"
157 read i
158 if [ $i == "yes" ]
159 then
160 clear
161 figlet -f digital "GUB Portal" -c | lolcat

```



```
162 student
163 fi;;
164 esac
165 }
166 echo "Choose the option between 1/2/3"
167 read choose
168 if [ $choose -eq 1 ];
169 then
170 figlet -f slant "Log In" -c | lolcat
171 echo "a.Student Log In"
172 echo "b.Teachers Log In"
173 echo "Your choice between a/b"
174 read cho
175 if [ $cho == "a" ];
176 then
177 echo "Enter Student ID:"
178 read id
179 echo "Enter Password : "
180 read pass
181 if [ $id == "201002334" ] && [ $pass == "kaiyum" ];
182 then
183 echo "Login Success! "
184 echo "Enter name of database : "
185 read db
186 student
187 else
188 echo "Login Failed! "
189 fi
190 fi
191
192 if [ $cho == "b" ];
193 then
194 echo "Enter username:"
195 read user
196 echo "Enter Password : "
197 read password
198 if [ $user == "polash" ] && [ $password == "12345" ];
199 then
200 echo "Login Success! "
201 echo "Enter name of database : "
202 read db
203 teacher
204 else
205 echo "Login Failed! "
206 fi
207 fi
208 elif [ $choose -eq 2 ];
209 then
210 figlet -f digital "Project By Md.Abdul Kaiyum" -c | lolcat
211 else
212 exit
213 fi
```

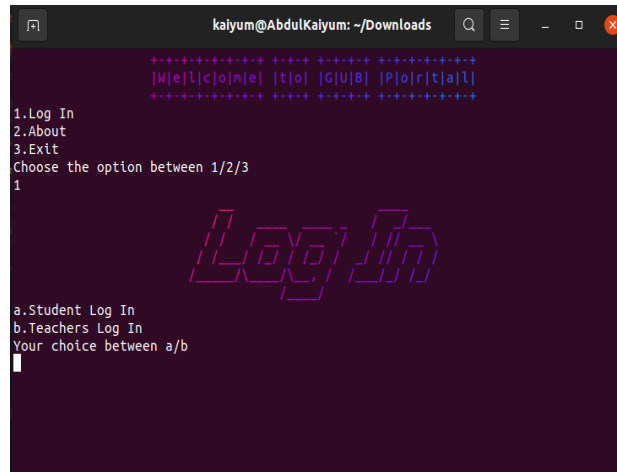
Chapter 3

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 GUB Portal Management System.

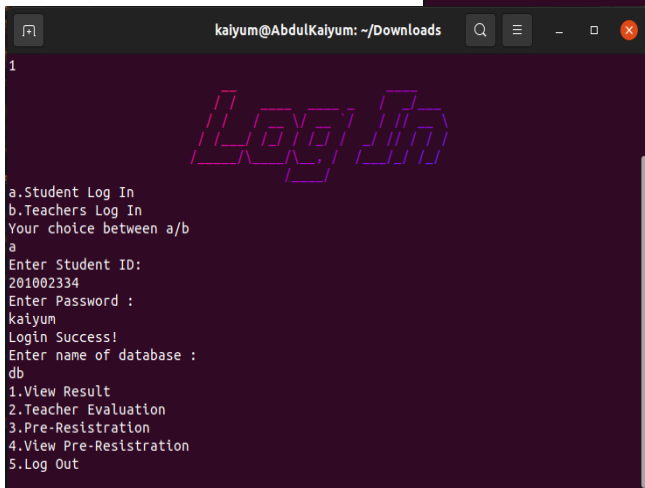


```
kaiyum@AbdulKaiyum: ~/Downloads
+++++
|W|e|l|c|o|m|e| |t|o| |G|U|B| |P|o|r|t|a|l|
+++++

1.Log In
2.About
3.Exit
Choose the option between 1/2/3
1

      Login

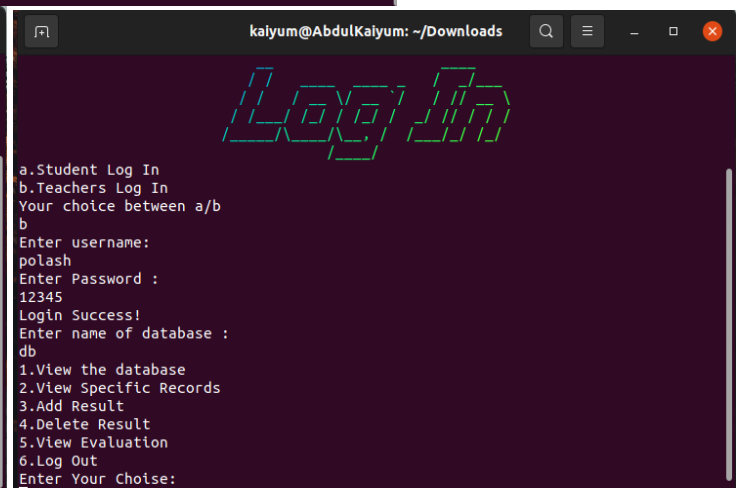
a.Student Log In
b.Teachers Log In
Your choice between a/b
1
```



```
1

      Login

a.Student Log In
b.Teachers Log In
Your choice between a/b
a
Enter Student ID:
201002334
Enter Password :
kaiyum
Login Success!
Enter name of database :
db
1.View Result
2.Teacher Evaluation
3.Pre-Resistration
4.View Pre-Resistration
5.Log Out
```



```
      Login

a.Student Log In
b.Teachers Log In
Your choice between a/b
b
Enter username:
polash
Enter Password :
12345
Login Success!
Enter name of database :
db
1.View the database
2.View Specific Records
3.Add Result
4.Delete Result
5.View Evaluation
6.Log Out
Enter Your Choise:
```

```
kaiyum@AbdulKaiyum: ~/Downloads
+++++ ++++++
|G|U|B| |P|o|r|t|a|l|
+++++ ++++++

1.View the database
2.View Specific Records
3.Add Result
4.Delete Result
5.View Evaluation
6.Log Out
Enter Your Choise:
3
Enter Student id :
201002334
Enter Name :
Md.Abdul Kaiyum
Enter Semester:
Spring-2022
Total number of courses:
2
Enter course-1: cse-309
Enter course-2: cse-310
Enter Result of course-1: A+
Enter Result of course-2: A+

a.Student Log In
b.Teachers Log In
Your choice between a/b
a
Enter Student ID:
201002334
Enter Password :
kaiyum
Login Success!
Enter name of database :
db
1.View Result
2.Teacher Evaluation
3.Pre-Registration
4.View Pre-Registration
5.Log Out
1
Enter Student Id:
201002334
Student ID: 201002334 Student Name: Md.Abdul Kaiyum Result of the semester: Sp
ring-2022 Total corurse completed: 2 Name of the coueses: cse-309 cse-310 Res
ult of the courses: A+ A+
Do you want to continue?
```

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

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

4.1 Practical Implications

GUB Portal 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/>
- [3] <https://www.youtube.com>