Software Requirements Specification

For

Student Alumni Database

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

It is desktop base application software that store the information of the student who pass from the university. It's help the administrator specially the exam controlling section to provide the whole information like his Id, name, family information, academic background , research area, detailed address, working experience etc.

1.2 Intended Audience and Reading Suggestions

This SRS is only for the admin which is the only user of the project.

1.3 Product Scope

This project make easier way to find student information of the student who passed from the university. This project is used by the administrator specially the exam controlling section. In this software the admin can add the basic information, present activity, contact details academic background and the other activities. The admin can sort the information by id, working, address, results. If the admin want to search a student by his or her id or name than he (admin) will find complete details of the student.

2. Overall Description

2.1 Product Perspective

In many university the exam controlling section has to reserved the detailed information the alumni but our university reserved this data by using pen and papers. The existing system is very much difficult and time consuming so we decide to create this project to help the exam controlling section. We think our project will saved a huge amount of time and saved the data from different type of error.

2.2 Product Functions

The main functionally are given below:
1. Add basic information of a student
2. Add extracurricular activity
3. Add present and permanent address
4. Add CGPA and no. of credit in the 12 semesters.
5. Add research or project.
6. Add Present and Previous Working History
7. Calculate department and Session from the student id
8. Show basic information of students
9. Show results of the students in ascending order
10. Show present working condition of the students sorted by company
11. Show present address of the students sorted by district
12. Show the search result by using id and name.

2.3 User Classes and Characteristics

The only user of software is the exam controller or his assigned person.

2.4 Operating Environment

The hardware specification is : normal desktop & laptop computer minimum dual core 32 bit processor. Ram 1 gb will enough for run this application. This project doesn't need any extra graphics card.

Software requirement : minimum requirement is windows xp 32 bit operating system , or any version of ubuntu.
Extra or supporting software : to use this project there should have xampp server 8.0.1 which contained the database.

2.5 Design and Implementation Constraints

The main limitation is given below:
Hardware limitation: the program doesn't work which has below dual core processing capacity and 1 gb ram.
Software limitation: the project doesn't work which has below windows xp.
Project limitation: there is no any option to change the user name and password by using this project. Another limitation is the admin has to add the whole data at a time.

2.6 Assumptions and Dependencies

If the xampp server is not installed and the database is not found in the proper directory than there will occur an exception so we have to install xampp first and then store the database in proper.

3. External Interface Requirements

3.1 User Interfaces

Interface-1: Admin: In this interface the admin can submit the username and password, if the user name and password is match than interface 3 will open. Otherwise interface 2 will be open.

Interface-2: If the user name and password does not match than show the error message.

Interface-3: if the user name and password is match than this interface will open.

Interface-4: If the search result of interface 3 is found, then this will open.
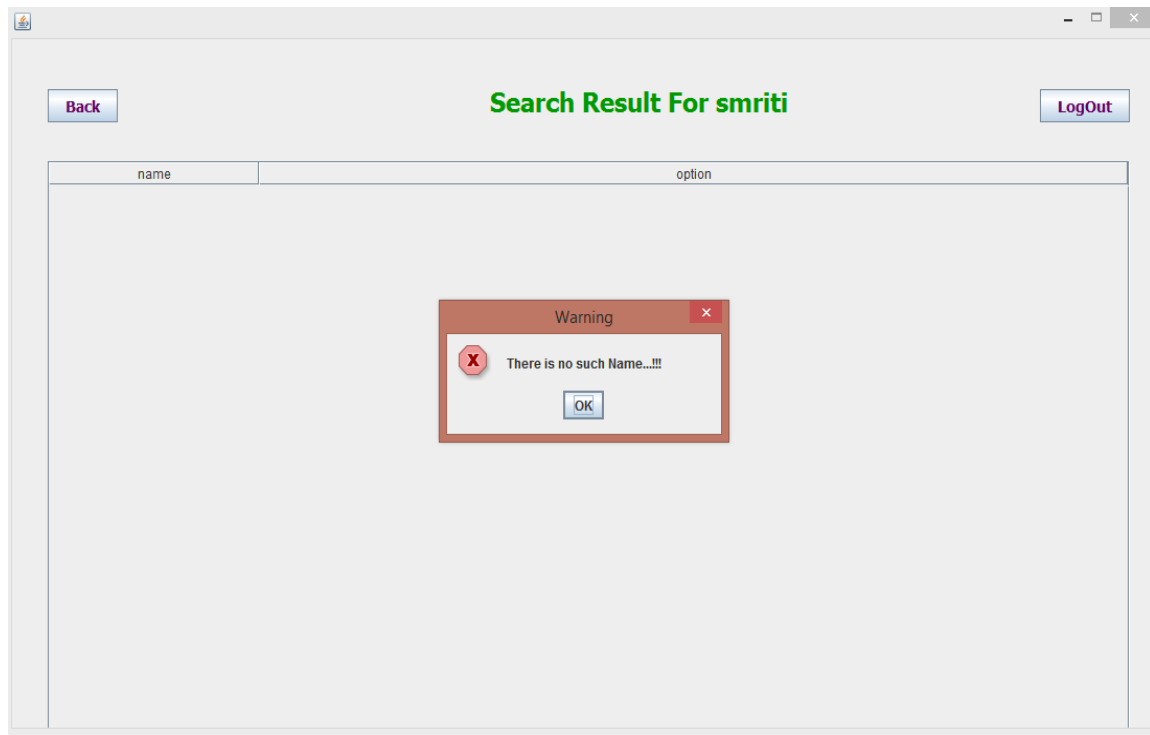
Interface-5: If the search result of interface 3 is not found, then this will show error message.
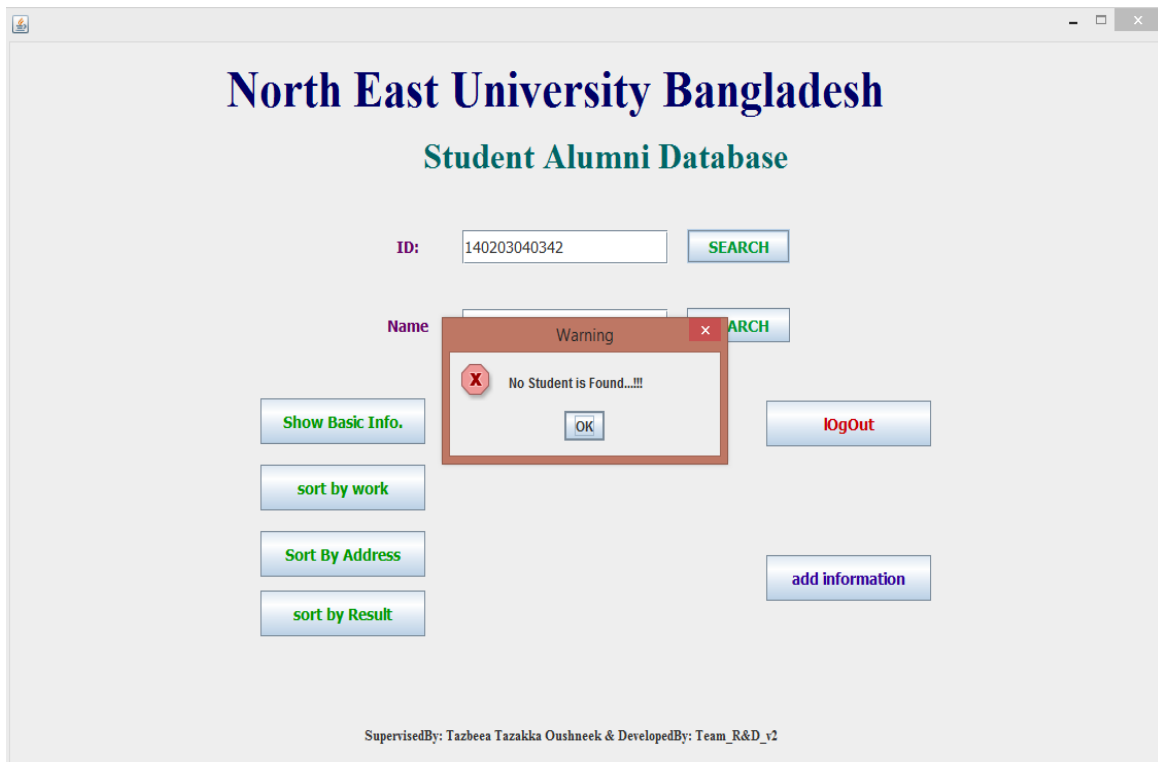
Interface-6: If the search result of interface 3 is found, then this will open.
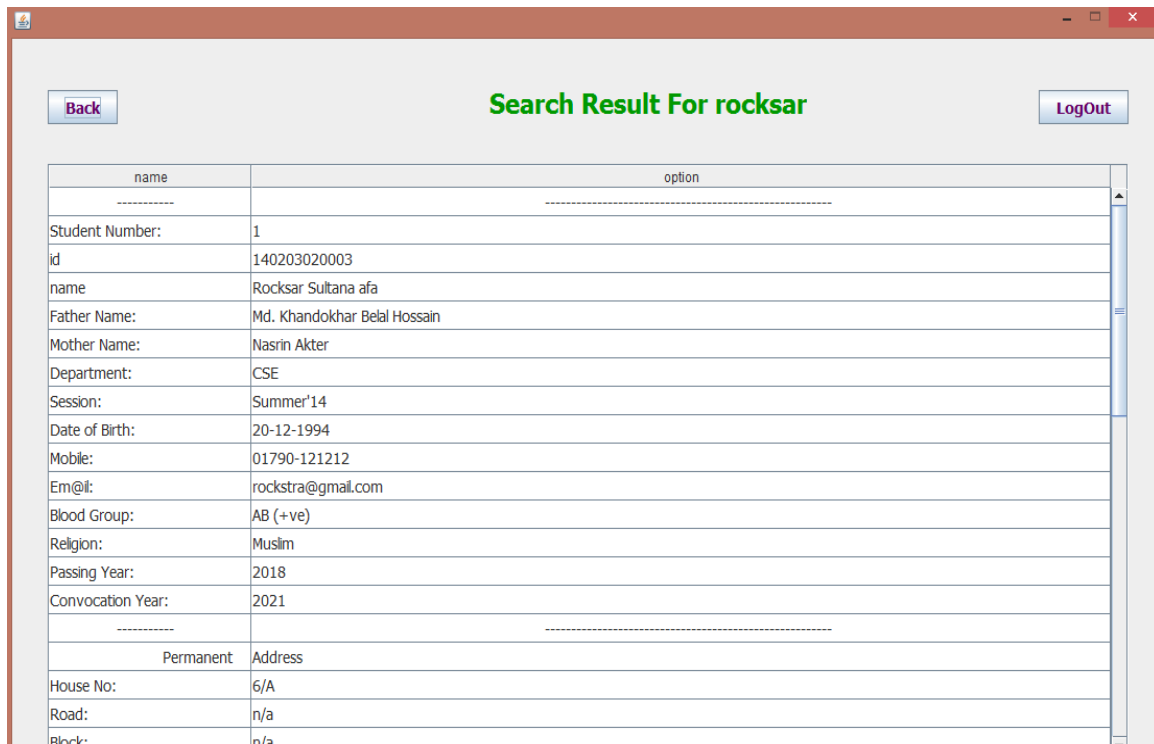
Interface-7: If the search result of interface 3 is not found, then this will show error message.

name	option

Search Result For smriti

Back

LogOut

Warning

X There is no such Name...!!!

OK

Interface-8: If the admin want to add information at the database or click in the add information button, then this page will be open.

Add Personal Information

Back

LogOut

Student Id:

Name:

Father's Name:

Mother's Name:

DoB (dd/mm/yy) :   1   January

Mobile NO:

Em@il:

Blood Group: O (+ve)

Religion: Muslim

Passing Year: 2013

Convocation Year: 2016

Next
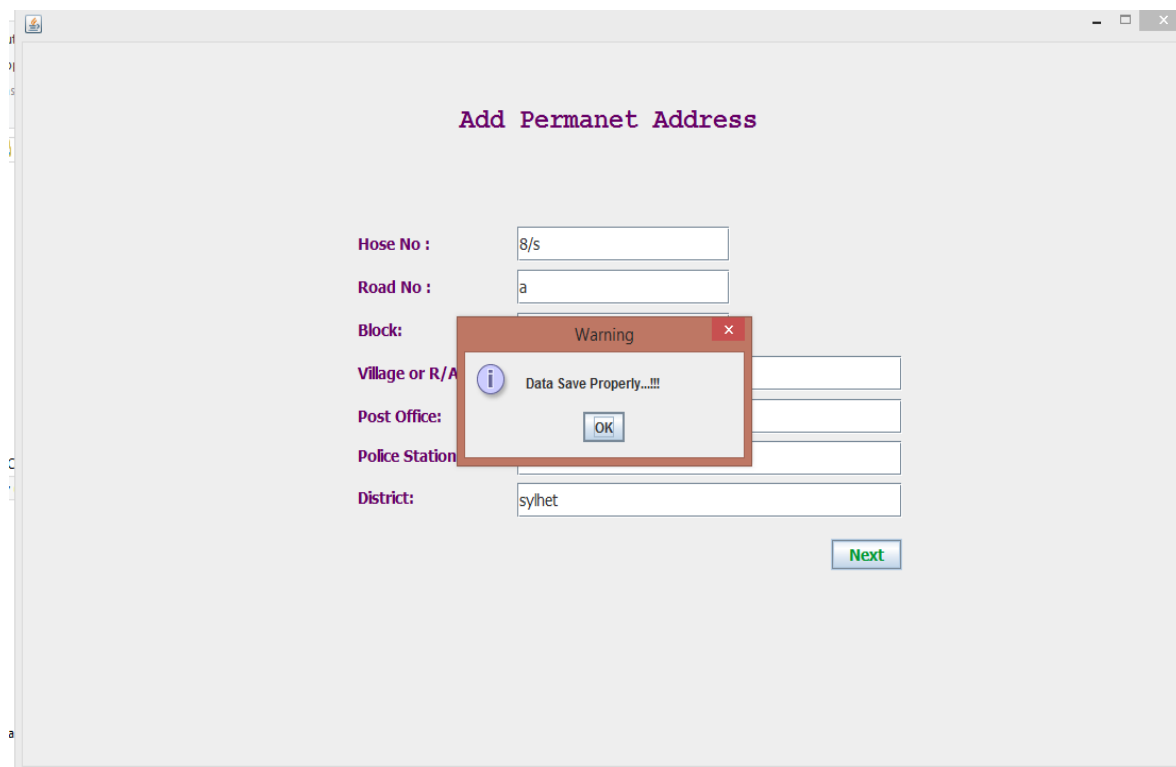
Interface-9: If the admin cannot fill all the table, then this error message will show.

Interface-10: If admin add proper information in interface 8, then this interface is open

Interface-11: If admin add proper information in interface 10, then this message will be show.
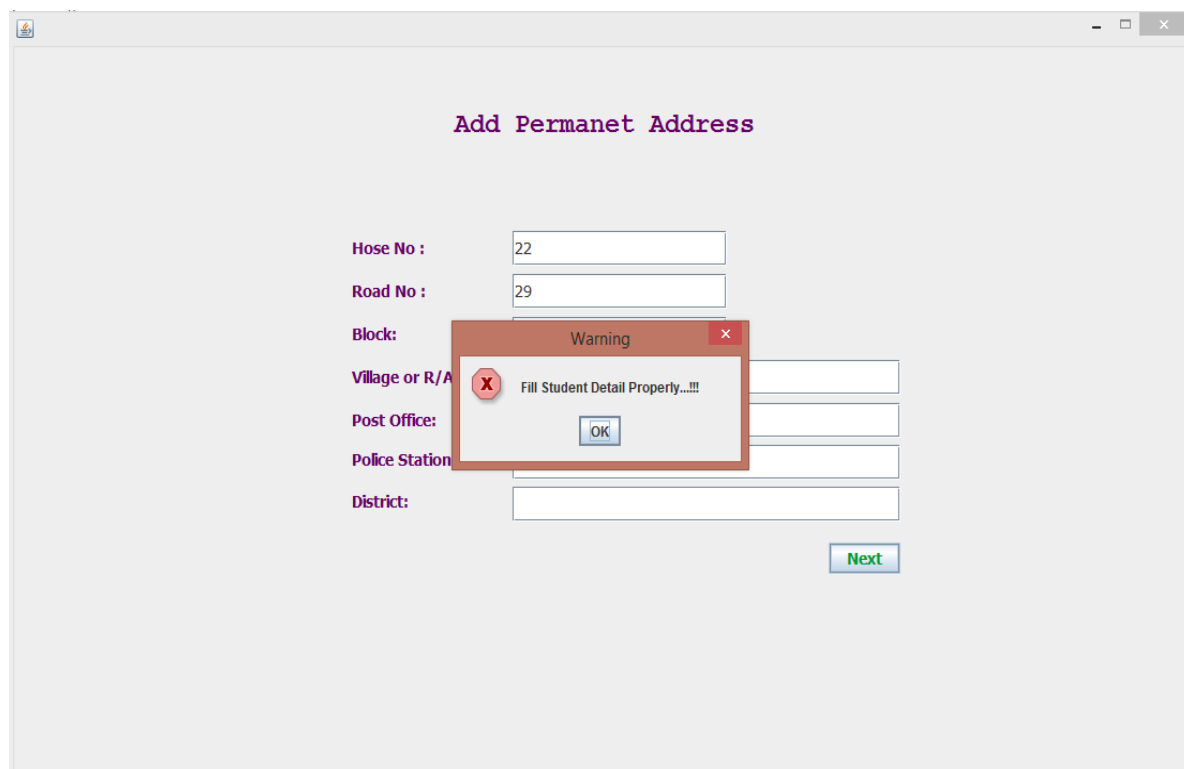
Interface-11-**A**: If admin cannot add proper information in interface 12, then this error message is show.
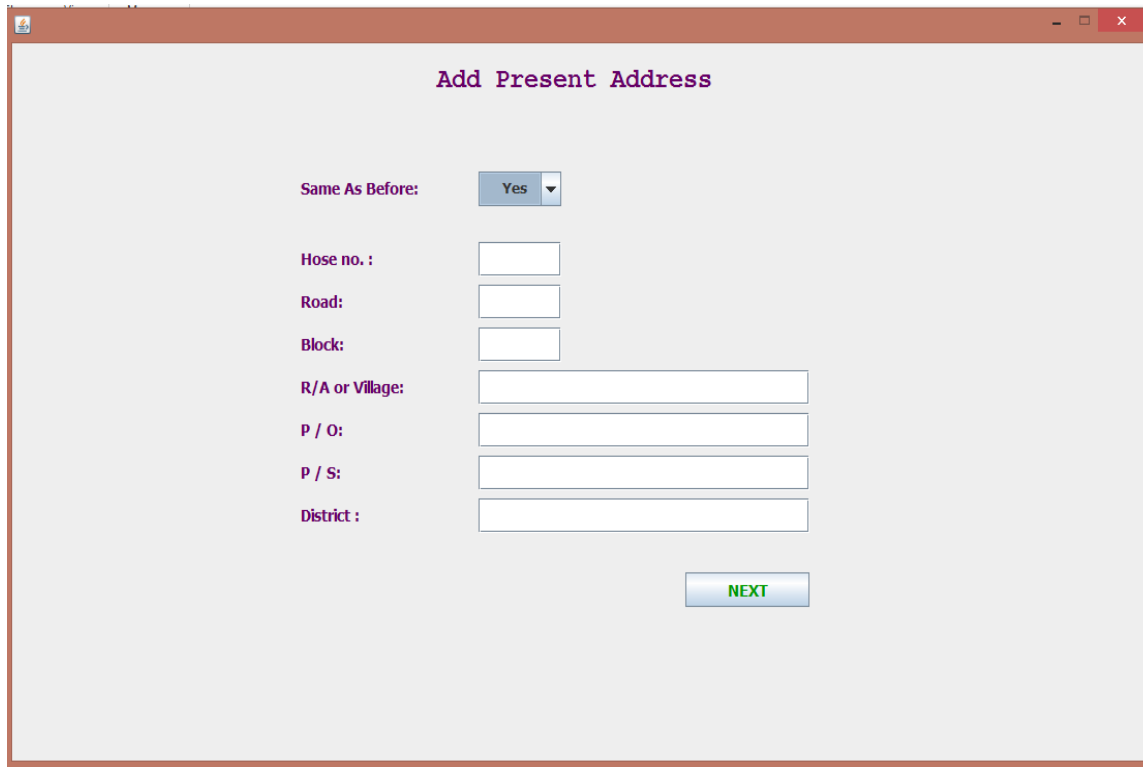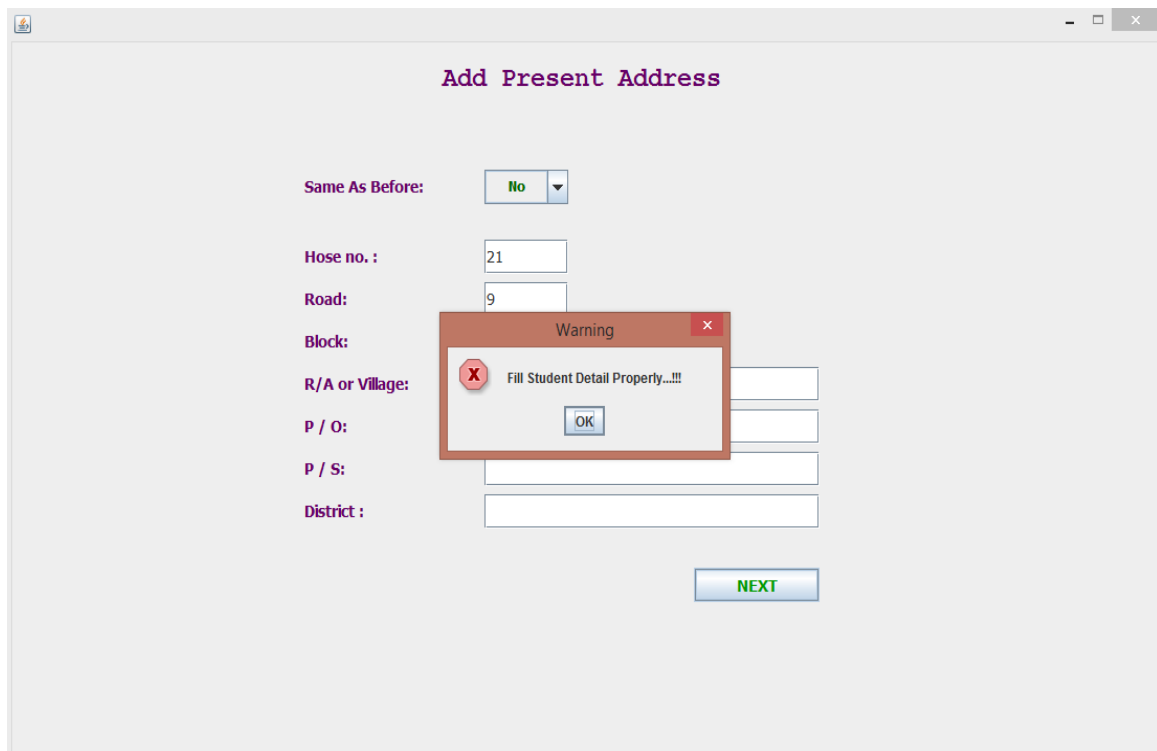
Interface-12: If admin add proper information in interface 10, then this interface is open

Interface-13: In interface 12 if the admin select no and cannot fill up the data properly than this error will show.

Interface-14: If the present and permanent address is same than the admin choose no and fill up the total information and press next.
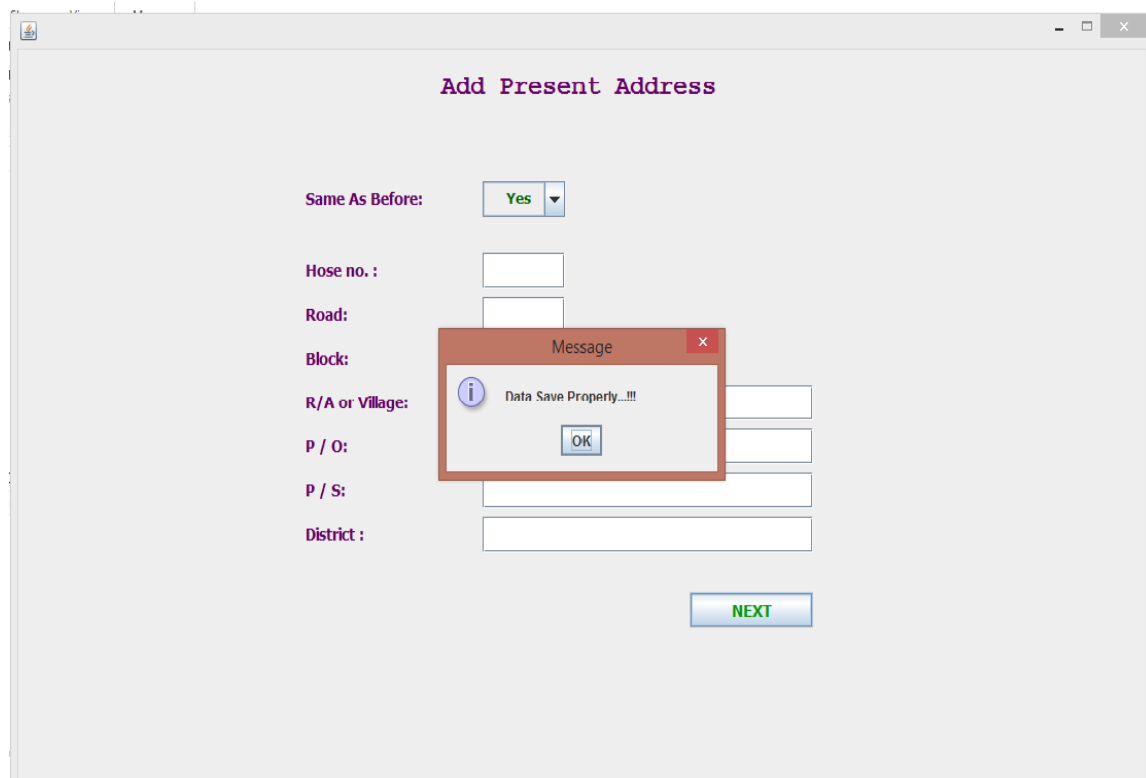
Interface-14-A: If admin add proper information in interface 14, then this message will be show.

Interface-15: If admin select yes and then press next than this message will show.

Interface-16: If admin add proper information in interface 12, then this interface is open.

Interface-17: If admin cannot add proper information in interface 16, then this will show error message.
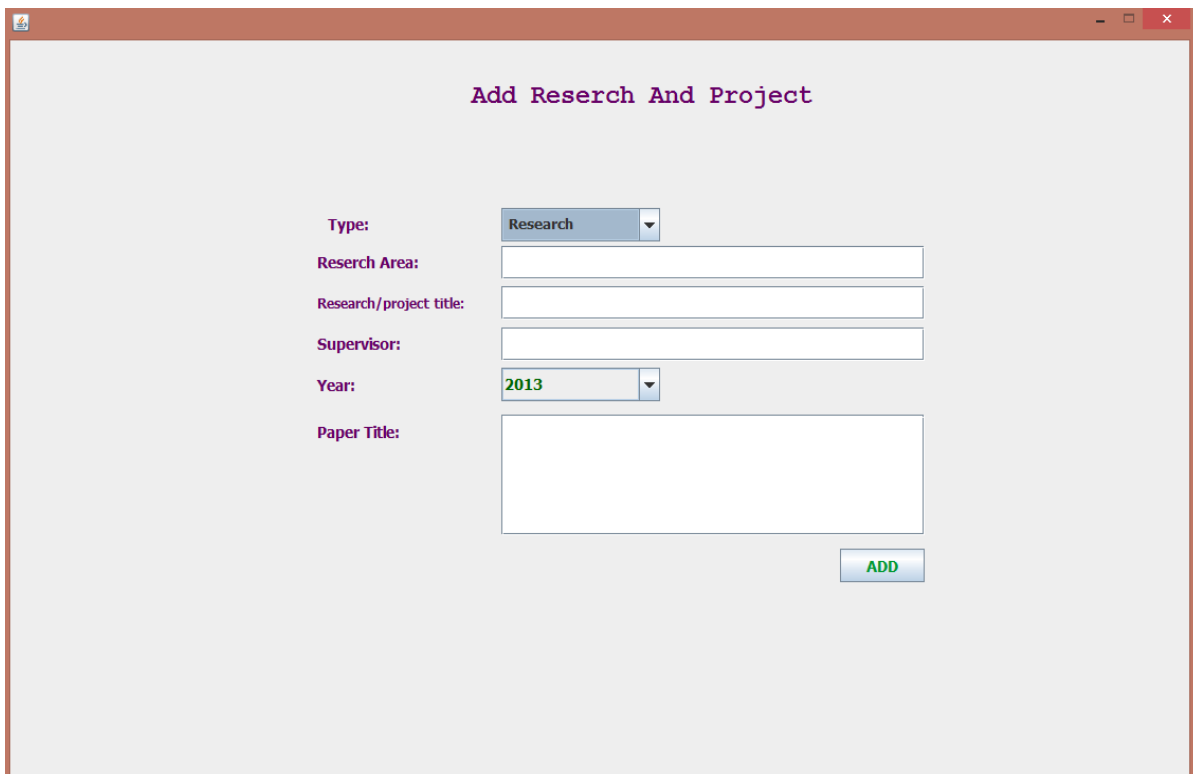
Interface-18: If admin add proper information in interface 16, then this message will show.
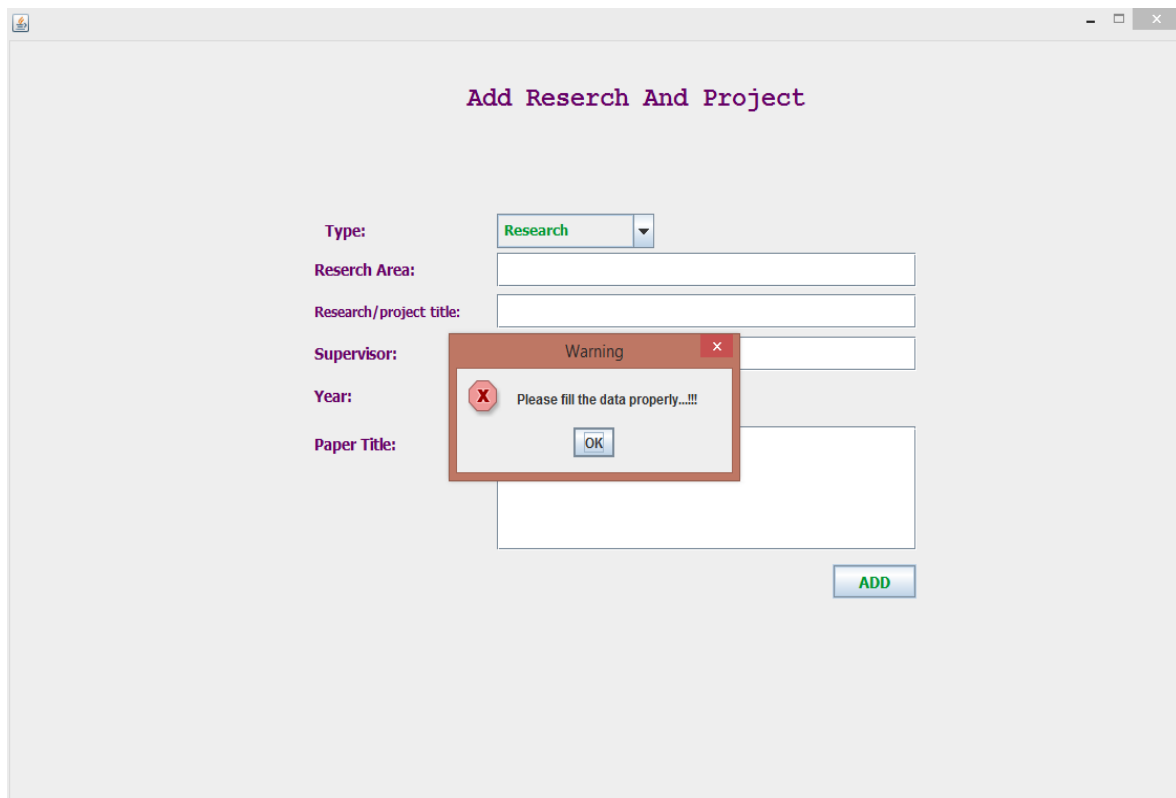
Interface-19: If admin add proper information in interface 16, then this interface is open.
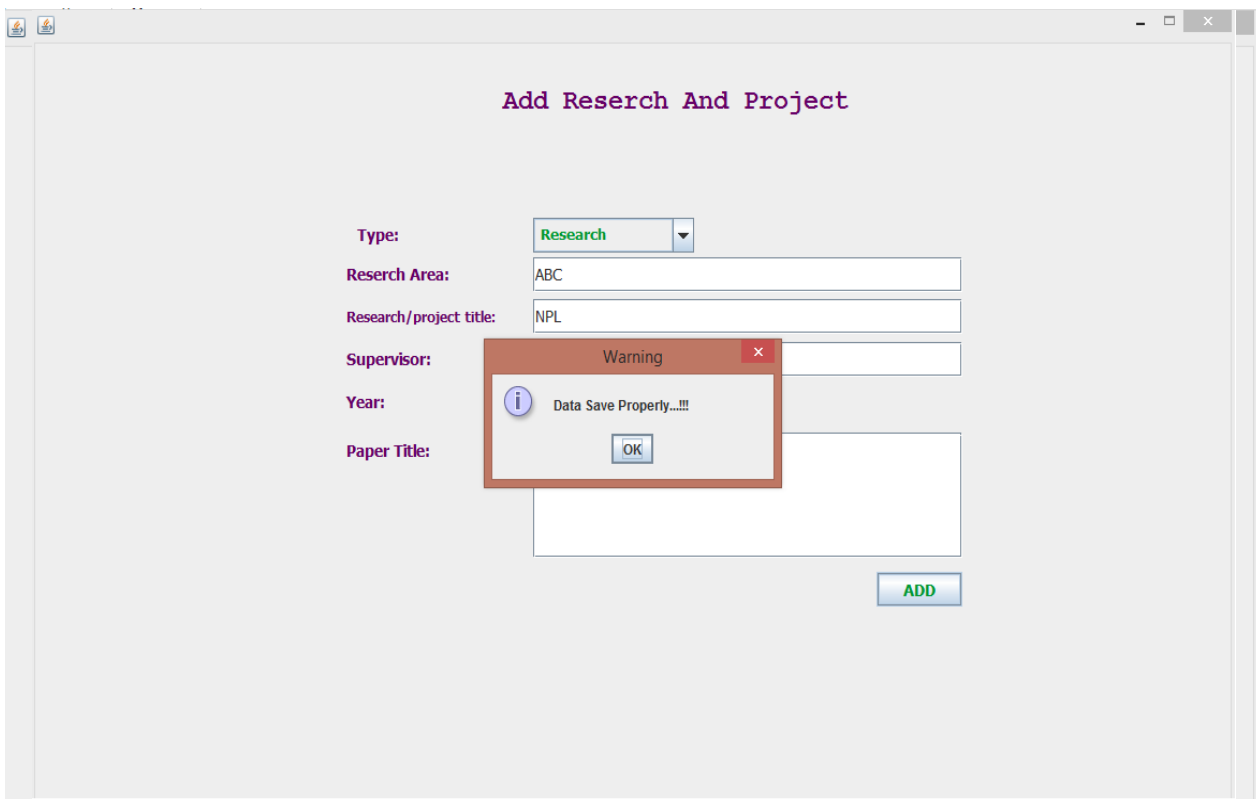
Interface-20: In interface 19 the admin cannot fill up data properly then this will show error message.
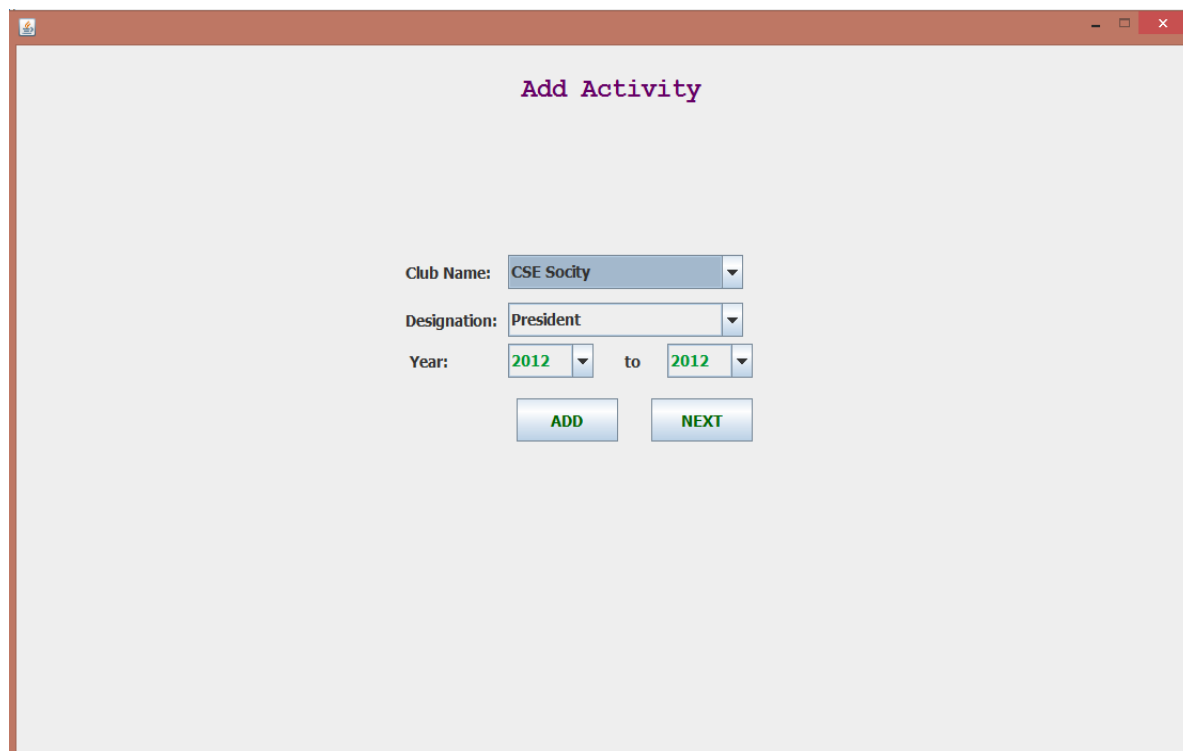
Interface-21: If admin add proper information in interface 19, then this message will show.

Add Reserch And Project

Type:	Research ▼
Reserch Area:	ABC
Research/project title:	NPL
Supervisor:	
Year:	
Paper Title:	

Warning ✕

ⓘ Data Save Properly...!!!

OK

ADD
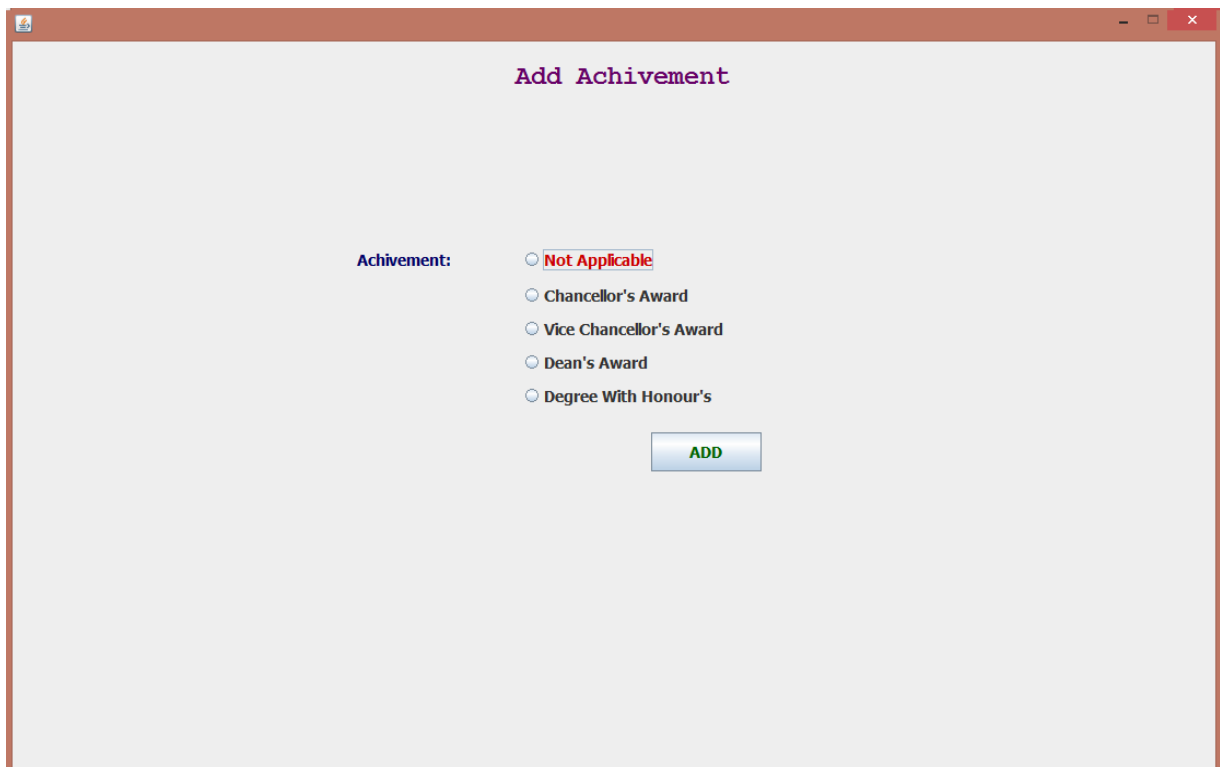
Interface-22: If admin add proper information in interface 19, then this interface is open.

Add Activity

Club Name:	CSE Socity ▼
Designation:	President ▼
Year:	2012 ▼ to 2012 ▼

ADD   NEXT

Interface-23: If admin add proper information in interface 22 and press add then this message will show.

Interface-24: If admin press next then this interface will open.
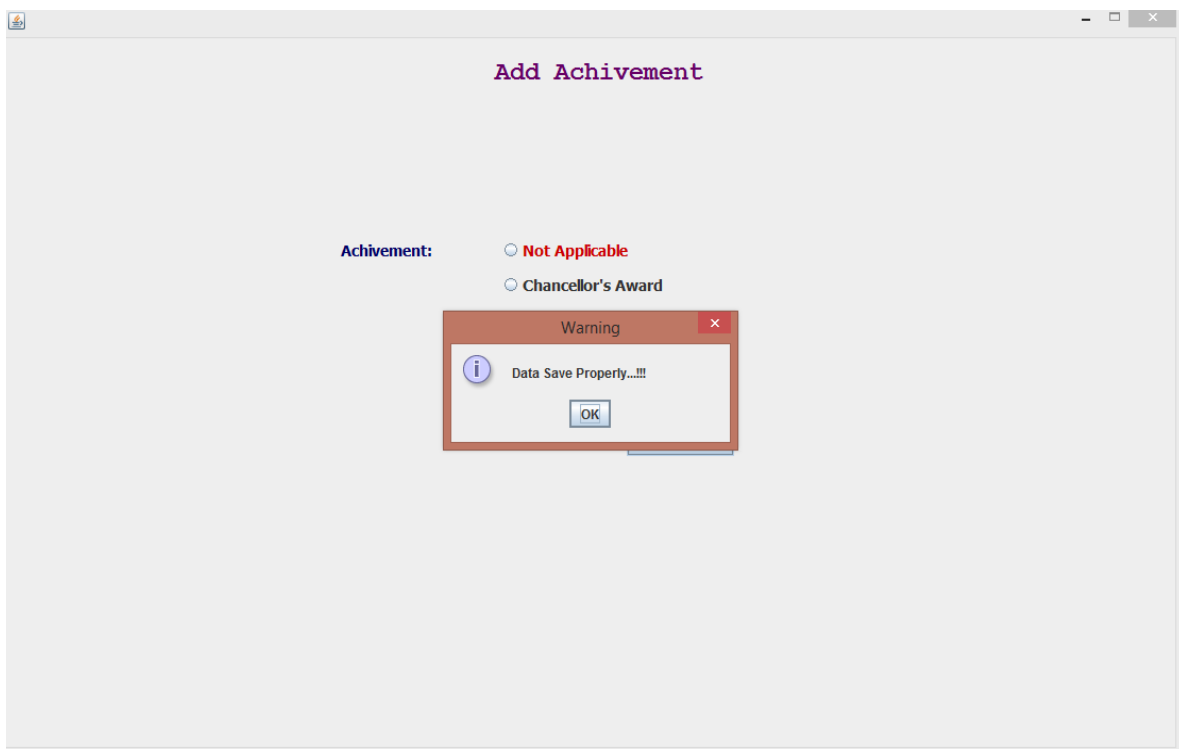
Interface-25: if admin select one or more option then this message will show.

Interface-26: If admin add proper information in interface 24, then this interface is open.

Interface-27: If admin add proper information in interface 26 and press next then this message will show.

Interface-28: If admin are select working type previous and fill up the data properly and press next then this message will show.

Interface-29: If the search basic information of interface 3 is found, then this will open. And sort by according to student id in ascending order.

Interface-30: If the search present working information of interface 3 is found, then this will open. And sort by according to company name in ascending order.
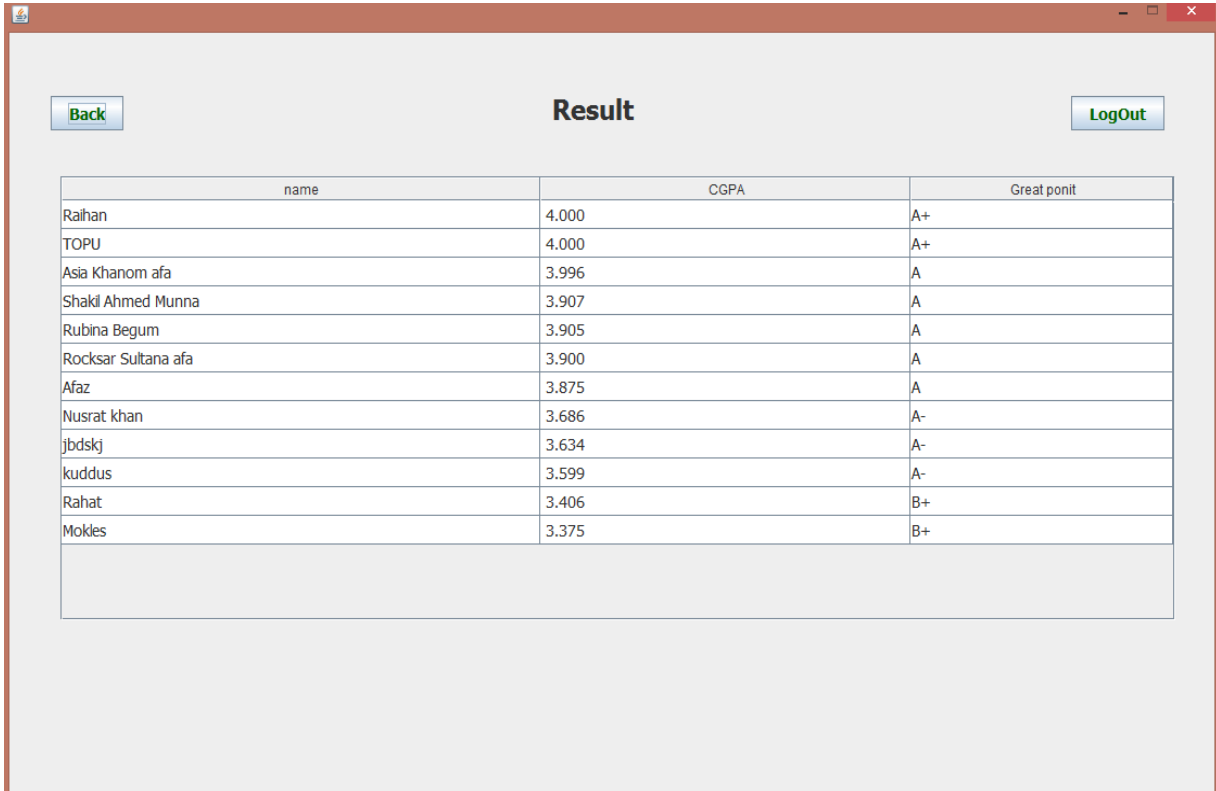
Name	Company	Designation
Mokles	Bangladesh Televission	IT officer
Rocksar Sultana afa	Dingi Restuarent	CEO
Raihan	Facebook	Assistant CEO
TOPU	kuddus Bodna company	IT officer
Rahat	Mokles bodna com	CEO
Asia Khanom afa	NEUB	Lecturer
Afaz	NEUB	Lecturer
Rubina Begum	NEUB Dept. of CSE	Head (Acting)
Shakil Ahmed Munna	Switch Bank	CEO

Present Working Information — Back — logOut

Interface-31: If the search present address of interface 3 is found, then this will open. And sort by according to district in ascending order.

Sort By Present Address — Back — LogOut

Name	House	road	block	Village (R/A)	Post Office	Police Station	District
Asia Khanom afa	102	9	N/A	Lama kaji	SYL-3100	Airport Model P.S.	Dhaka
jbdskj	5	n/a	n/a	wkdmw	wlkmdwo	dnnc	ldndks
Raihan	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Rocksar Sultana afa	6/A	n/a	n/a	Suraiya Tower, Borobazar, A...	SYL-3100	Airport Police Station	Nowakhali
Nusrat khan	7/c	n/a	n/a	subud bazer	sylhet,3100	Airport police	sylhet
Afaz	N/A	N/A	N/A	Vulagonji	Vulagonj Bazar	Sylhet	Sylhet
kuddus	30	9	H	Uposhohor	SYL-3200	Shahporan Model Police Stati...	Sylhet
Mokles	22	3	b	tilaghor	sylhet-3100	sadar	Sylhet
Shakil Ahmed Munna	11/2	n/a	n/a	North Kazitula	SYL-3100	kotuali	Sylhet
Rubina Begum	12	4	A	Modina Market	SYL-3100	Airport	Sylhet
TOPU	20	9	A	xyz	abc	Bissonat	Sylhet
Rahat	16	2	B	Tilaghor	SYL-3100	Sadar	Sylhet

Interface-32: If the search result of interface 3 is found, then this will open. And sort by according to CGPA in ascending order.

name	CGPA	Great ponit
Raihan	4.000	A+
TOPU	4.000	A+
Asia Khanom afa	3.996	A
Shakil Ahmed Munna	3.907	A
Rubina Begum	3.905	A
Rocksar Sultana afa	3.900	A
Afaz	3.875	A
Nusrat khan	3.686	A-
jbdskj	3.634	A-
kuddus	3.599	A-
Rahat	3.406	B+
Mokles	3.375	B+

Back   **Result**   LogOut

4. System Features

4.1 System Feature 1: Admin Panel

This project is fully secured because the only admin is exam controller or his assign person, when the admin enter the user name and password and press enter then the username and password is matched with database and start the project. Initially we setup the user name and password in the database.

4.2 System Feature 2: Home Page

In this project the landing page is the home page, from this page we can add information , search students by id or name, sort the student information by address , working information, result and id. If the admin want to close the database or logout from the project than he/she will logout by using 'logout' button.

4.3 System Feature 3: Add Information

In this page admin can add the basic information such that student id, name , father name, mother name, date of birth, email, mobile number, blood group, religion, passing year, convocation year. If the admin press next than the project will check if there is any filed blank or not. If blank than an error message will show otherwise the data will save in database table name information. In the database we assign student id as a primary key.

4.4 System Feature 4: Add Permanent Address

In this page admin can add the permanent address information such that house number, road number, block number, village, post office, police station and district. If all the data are properly fill up than that data will add in the database table name address. In the address table of the database of the data base the primary key is the student id. This student id is comes from the first interface. If any filed is blank than an error message will print.

4.5 System Feature 5: Add Present Address

In this page the admin has to choice if he/she select yes in the same as before filed than the data of the previous interface will saved in the database but if the admin can select no than he/she have to fill up all the data. If any filed is blank than an error message will show

4.6 System Feature 6: Add Result

By the university rule one student must be complete his/her graduation by 12 semester. In this page there are 24 field, 12 is for credit and rest 12 is for CGPA. If the admin properly add the data of that fields than the data will store in the database table name result, where the primary key is student id. If any filed is blank than an error message will show.

4.7 System Feature 7: Add research and project

In the fourth year a student must be create a project or doing a thesis. In this interface the admin can add the research or project information for specific student. For project the admin have to fill up the project title, supervisor and year. And for thesis the admin have to fill up research area, thesis title, supervisor name, year and thesis paper title (if necessary). If the admin properly add the data of that fields than the data will store in the database table name research_project, where the primary key is student id. If any filed is blank than an error message will show.

4.8 System Feature 8: Add activity

If a student connected with any society or club authorized by the university then his such information will be store in that project if any student doesn't has such information than the admin will jump that interface by using next button otherwise the admin have to select the club name, designation, year (from - to). This information will store in the database table name activity.

4.9 System Feature 9: Add achievement

In this interface the admin can select the academic achievement of a student during his entire carrier. If there is no any such information then the admin has to select not applicable option. This information is store in the database table name achievement. In the table we use Boolean data to express different achievement. If the admin cannot select any data than there will show an error message.

4.10 System Feature 10: Add work detail

In this interface the admin can add present and previous work history of a student. If the admin select present in working type field than the data will be saved as present work otherwise the data will be saved as previous work history. In this interface the admin can add company name, designation and year. This data will be saved in work_in table of the database.

4.11 System Feature 11: Search

4.11.1 System Feature 11.1: Search by Id:

In the landing interface the admin can search a student by using by student id. If the id is match with an existing id then another interface will open. This interface contain id student name, father name, mother name, department, session, dob, email, blood group, passing year, convocation year, detail information of present and permanent address, CGPA, different activities during university, achievements, past and present working history etc. all of the data are comes from different table of the database except department and session. This two data calculated by using student id.

4.11.2 System Feature 11.2: Search by name

In the landing interface the admin can search a student by using by name of a student. If there match any name with the database then another interface will open. This interface contain id student name, father name, mother name, department, session, dob, email, blood group, passing year, convocation year, detail information of present and permanent address, CGPA, different activities during university, achievements, past and present working history etc. all of the data are comes from different table of the database except department and session. This two data calculated by using student id.

4.12 System Feature 12: Sort information

4.12.1 System Feature: Sort by id

In this interface the admin can view the basic information (such that-id, name, department, session, passing year, mobile number, email) of the students.

4.12.2 System Feature: Sort by work (company name)

In this interface the admin can view the present working history of the students. this interface will contain student name, company and designation. The information will comes by merging two table named the information and work_in.

4.12.3 System Feature: Sort by present address (district)

In this interface the admin can view the present address of the students. This interface will contain student name, house number, road number, block , village name, post office, police station and district . The information will come by merging two table named the information and address.

4.12.4 System Feature: Sort by result (CGPA)

In this interface the admin can view the results of the students. This interface will contain student name, CGPA, and grade letter. The information will come by merging two tables named the information and result. In this interface we calculate all the result of the student by using conventional result processing system.

4.13 System Feature 13: Logout

If the admin click the logout button than two action will be occur. At first the database connection will be closed and secondly the login interface will be open.

5. Other Nonfunctional Requirements

5.1 Safety Requirements

In this project there is no backup database so the administrator should have create the backup regularly.

5.2 Security Requirements

The admin of the project have to secure the user name and password.