

# FINAL YEAR PROJECT REPORT

## BCSE IV 1st semester

### **Group members:**

<b>Name</b>	<b>Roll no</b>
Shyok Mutsuddi	2
Abhishek De	27
Roopkatha Samanta	30
Shubham Goel	47

# INTRODUCTION

The aim of this project is to create a web based portal for PhD Students. In this semester, we have worked on creating the student application portal where students can fill the application form with thesis title, which will be approved by the supervisor PRC and Doctorate committee. Also, we have an admin portal for final approval and assignment of student enrolment number.

## REGISTRATION OF A STUDENT FOR PHD

Our Homepage, where Students, all Professors/Supervisors, department level Postgraduate Research Committee and faculty level Doctorate Committee can log-in. Also there is an option for students to sign-up (create a new account) and register for PhD.

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যাদবপুর বিশ্ববিদ্যালয়

Student

### Provisions relating to Doctorate Degree

#### PREAMBLE

The University will award the following Doctorate Degrees:

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#### ELIGIBILITY FOR ADMISSION

A. The application for admission to the Doctor of Philosophy (Ph.D.) programme is to be made to the Registrar in the prescribed form

B. A person who has obtained the Master's degree in any discipline from any University or other Institution recognized by this University or such other degree as may be considered sufficient for this purpose by the University will be eligible to apply for admission to the Doctor of Philosophy (Ph.D.) programme.

C. A person who has obtained a Post-graduate Diploma/Degree of less than two years' duration from any University or Institution recognized by this University is eligible to apply for admission to the Doctor of Philosophy (Ph.D.) programme provided that such candidate has 2 completed at least a total of five years' of graduate and postgraduate study in a recognized university or Institution.

D. A person who has obtained the Bachelor's degree in Engineering/Technology/Pharmacy/MCA of this university or from any other university or Institutions recognized as equivalent thereto by the university may apply for admission to the Doctor of Philosophy (Ph.D.) programme.

E. A candidate shall submit a statement that s/he is not currently enrolled as a student in any course of studies or registered for the doctorate degree in any University and shall undertake not to be thus enrolled or registered so long as he is registered for Ph.D. degree at this University.

Username

Password

Log In

[Create Account](#)

Now, suppose a student wants to register for a PhD. For that, first he/she needs to create an account. For that he/she needs a valid email id and has to create a password.



The image shows a registration form titled "Create Account" in blue text. The form has an orange background. It contains four input fields: "Email:" with the value "ritamguha@gmail.com", "Password:" with masked dots, "Confirm Password:" with masked dots, and "Verify Captcha:" with the value "3rSzvj". To the right of the captcha input is a captcha image showing the text "3 r S z v j". Below the input fields is a red "Sign Up" button.

**Create Account**

Email:

Password:

Confirm Password:

Verify Captcha:  

**Sign Up**


Once providing a valid email id along with a strong password and verifying captcha (prove that you are human), a verification code will be sent to his/her email id mentioned here. Failing to provide the verification code will lead to cancellation of account and he/she will have to recreate his/her account.

A verification code has been send to your Email Id.

Verification Code: 9Gzcn2UF

Verify

Once the verification is successful, his/her account will be created. Now he/she must login and register for PhD through his/her account.

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Student

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C. A person who has obtained a Post-graduate Diploma/Degree of less than two years' duration from any

[Log in](#)  
[Create Account](#)

Once he/she logs in, it will redirect him/her to a registration page containing 4 pages where he/she has to mentions all details required while applying for PhD.

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Student

[Logout](#)

1234

I HEREBY APPLY FOR REGISTRATION AS A PH.D STUDENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN Faculty Of Engineering & Technology OF JADAVPUR UNIVERSITY IN THE DEPARTMENT OF Computer Science & Engineering AND SUBMIT BELOW THE REQUISITE DETAILS, IF ACCEPTED I SHALL ABIDE BY THE RULES AND REGULATIONS OF THE UNIVERSITY. PARTICULARS GIVEN BELOW ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

UPLOAD PASSPORT SIZE PHOTO

1. NAME(ACCORDING TO SCHOOL LEAVING CERTIFICATE)

2. DATE OF BIRTH SEX MARITAL STATUS

3. FATHER'S NAME/MOTHER'S NAME

4. CATEGORY

**8. PARTICULARS OF ACADEMIC CAREER**

Name of the Examination	Examination passed	Name of Institution/University	Major discipline	Year of passing	Total marks obtained	%(Marks/CGPA)
Madhyamik or Equivalent	10th Board	Army Public School	MSScEB	2014	100	10
Higher secondary or Equivalent	12th Board	Army Public School	MPCCsE	2016	95	9.5
Bachelor degree	BCSE	Jadavpur University	Computer Science	2020	93	9.3
Master degree						
Post master degree						
M.Phil(Two year regular course)						

**UPLOAD RELEVANT MARKSHEETS/CERTIFICATES**

Choose Files | 2 files

**9. WHETHER QUALIFIED FOR NET/SET/GATE/ANY OTHER EQUIVALENT EXAMINATION**

GATE

**RELEVANT DOCUMENTS**

Choose Files | Sample-GATE-certificate.pdf

**10. PRESENT EMPLOYMENT**

(A) NAME OF ORGANISATION:

(B) NATURE OF WORK:

[Previous](#) [Next](#)**11. PROPOSED RESEARCH WORK**

(A) PROPOSED AREA/THEME OF RESEARCH:

Feature Selection Genetic Algorithm

(B) STATEMENT OF PURPOSE REGARDING RESEARCH OBJECTIVE(WITHIN 100 WORDS):

Choose file | Sample-SOPpdf

(C) DEPARTMENT/SCHOOL/INSTITUTE WHERE THE PROPOSED RESEARCH WORK IS TO BE CARRIED ON WITH ADDRESS

Jadavpur University

[Previous](#) [Next](#)**12. NAME OF SUPERVISORS(RECOMMENDED BY PHD RESEARCH COMMITTEE)**

(1)NAME:

RAM SARKAR

DESIGNATION:

ASSOCIATE PROFESSOR

(2)NAME:

DESIGNATION:

[Previous](#) [Submit](#)

After this, the student has applied for a PhD. Now this PhD form will undergo phases like Supervisor Approval, RAC Assignment, Postgraduate Research Committee Approval, Doctorate Committee Approval and finally Admin's Approval. The student can login and check his/her form's status.



Hello Ritam Guha, your registration is in Under Process. We will notify you once your Registration gets Complete. You can track your Registration Phase here.



Now, if any professor/supervisor logs in through the homepage portal, his/her page will display a list of all the students who applied him/her as their supervisor. He/she can either approve or reject the form. Approval of form promotes it for further phases while rejection of form results in the entire form status as rejected and students may have to re-register the form.





Ritam Guha

Indian

1998-01-16

male


Feature Selection  
Genetic Algorithm[Check Form](#)[Assign RAC](#)

Approve

Discard

*Check form* link will download the form submitted by the student under his/her supervision. A 5-6 paged pdf like this will be downloaded and the supervisor can check that form.

I HEREBY APPLY FOR REGISTRATION AS A PH.D STUDENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN Faculty Of Engineering & Technology OF JADAVPUR UNIVERSITY IN THE DEPARTMENT OF Computer Science & Engineering AND SUBMIT BELOW THE REQUISITE DETAILS, IF ACCEPTED I SHALL ABIDE BY THE RULES AND REGULATIONS OF THE UNIVERSITY. PARTICULARS GIVEN BELOW ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



- NAME (ACCORDING TO SCHOOL LEAVING CERTIFICATE): Ritam Guha
- DATE OF BIRTH: 1998-01-16  
SEX: male  
MARITAL STATUS: unmarried
- FATHER'S NAME/MOTHER'S NAME: Xyz Guha
- CATEGORY: general
- NATIONALITY: Indian
- PERMANENT ADDRESS:  
Khardah
- ADDRESS FOR COMMUNICATION:  
Khardah  
MOBILE NUMBER: 9831524527  
PHONE NUMBER: NIL  
EMAIL: ritamguha@gmail.com
- PARTICULARS OF ACADEMIC CAREER
 

Name of the Examination	Examination passed	Name of Institution/University	Major discipline	Year of passing	Total marks obtained	% (Marks/CGPA)
Madhyamik or Equivalent	10th Board	Army Public School	MSScEB	2014	100	10
Higher secondary or Equivalent	12th Board	Army Public School	MPCCsE	2016	95	9.5
Bachelor degree	BCSE	Jadavpur University	Computer Science	2020	93	9.3
Master degree						
Post master degree						
M.Phil (Two year regular course)						
- WHETHER QUALIFIED FOR NET/SET/GATE/ANY OTHER EQUIVALENT EXAMINATION:  
GATE
- PRESENT EMPLOYMENT  
(A) NAME OF ORGANISATION:  
NIL  
(B) NATURE OF WORK:  
NIL
- PROPOSED RESEARCH WORK  
(A) PROPOSED AREA/THEME OF RESEARCH:

Feature Selection Genetic Algorithm  
(B) DEPARTMENT/SCHOOL/INSTITUTE WHERE THE PROPOSED RESEARCH WORK IS TO BE CARRIED ON WITH ADDRESS:  
Jadavpur University

- NAME OF SUPERVISORS (RECOMMENDED BY PHD RESEARCH COMMITTEE)  
(1) NAME: RAM SARKAR  
DESIGNATION: ASSOCIATE PROFESSOR  
(2) NAME: NIL  
DESIGNATION: NIL

Statement of Purpose, marksheets and qualifying certificate are attached below

**This is a Sample SOP**

You can use this SOP for uploading on the application form. You can use this SOP for uploading on the application form. You can use this SOP for uploading on the application form. You can use this SOP for uploading on the application form. You can use this SOP for uploading on the application form. You can use this SOP for uploading on the application form. You can use this SOP for uploading on the application form. You can use this SOP for uploading on the application form.

Before approval, the supervisor needs to assign RAC to that student, which he/she is able to do by clicking the link *Assign RAC*. If the supervisor had already assigned RAC for that student, he/she can directly approve the form.

Selected Profs

Prof's selected for RAC:  
ANUPAM SINHA  
SUSMITA GHOSH DE  
SANJOY KUMAR SAHA

Approve

Select professors for RAC:

Choose professors

☐ MITA NASIPURI

☐ CHANDAN MAZUMDAR

☐ UJJWAL MAULIK

☒ ANUPAM SINHA

☐ NANDINI MUKHOPADHYAY

☐ MAHANTAPAS KUNDU

☐ NIRMALYA CHOUDHURY

☒ SUSMITA GHOSH DE

☐ SARMISTHA NEOGY LAHIRI

☐ JAMUNA KANTA SING

☐ DIGANTA SAHA

☒ SANJOY KUMAR SAHA

Hello ANUPAM SINHA. Here are the list of students.

Abhishek De	Indian	1998-04-14	male	Computer networks	<a href="#">Check Form</a>	<a href="#">Assign RAC</a>	<div>Approve</div> <div>Discard</div>
KL Rahul	Indian	1995-12-01	male	Game Theory	<a href="#">Check Form</a>	<a href="#">Assign RAC</a>	<div>Approve</div> <div>Discard</div>

**Note:**You have the Special Access. Check status of all students.




Enrollment ID	Name	Supervisor Name	Department
001710501009	Sushant Shaw	KAMAL SARKAR	Computer Science & Engineering
001610501078	Soham Mukherjee	NIBARAN DAS	Computer Science & Engineering
001750100218	Souvik Kapri	CHANDAN MAZUMDAR	Computer Science & Engineering
08932563246	Glen Maxwell	ASISH PAUL	Physical Education
001710501002	Virat Kohli	SHRADHANJALI TAMANG	Film Studies
00765432	Rohit Sharma	KAMAL SARKAR	Computer Science & Engineering
4694347358	Varun Chakravarthy	SHUBHRAJIT DAS	Architecture

Faculty
Department
Search!

Enrollment ID	Name	Supervisor Name	Department
001710501009	Sushant Shaw	KAMAL SARKAR	Computer Science & Engineering
001610501078	Soham Mukherjee	NIBARAN DAS	Computer Science & Engineering
001750100218	Souvik Kapri	CHANDAN MAZUMDAR	Computer Science & Engineering
00765432	Rohit Sharma	KAMAL SARKAR	Computer Science & Engineering
001710501018	Shikhar Dhawan	RAM SARKAR	Computer Science & Engineering
001610501006	Ritam Guha	RAM SARKAR	Computer Science & Engineering

Faculty of Engineering & Technology
Computer Science & Engineering
Search!

Once approved, the student's form is promoted to the departmental level PRC approval phase along with RAC assigned to him. Students Page now:


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Student

Logout

**Hello Ritam Guha, your registration is in Under Process. We will notify you once your Registration gets Complete. You can track your Registration Phase here.**

Form Submission

Supervisor Approval

PRC Approval

DC Approval

Registration Completed

Now the departmental PRC needs to approve the student's form.

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Postgraduate Research Co

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[Log In](#)  
[Create Account](#)

Hello PRC17. Here are the list of students.

Ritam Guha	Indian	1998-01-16	male	Feature Selection Genetic Algorithm	<a href="#">Check Form</a>	<a href="#">Approve</a> <a href="#">Discard</a>
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Once departmental PRC approves the form, the form is promoted to faculty level Doctorate Committee Approval phase.

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Student

[Logout](#)

Hello Ritam Guha, your registration is in Under Process. We will notify you once your Registration gets Complete. You can track your Registration Phase here.

Form Submission

Supervisor Approval

PRC Approval

DC Approval

Registration Completed

Now the faculty level Doctorate Committee needs to approve the form.

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- Ph.D. (Arts); Ph.D. (Science); Ph.D. (Engg. / Pharm.) in Arts, Science and Engineering & Technology / Pharmacy

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doc\_engg02@gmail.com

.....

[Log In](#)

[Create Account](#)

Hello DoC02. Here are the list of students.

Ritam Guha	Indian	1998-01-16	male	Feature Selection Genetic Algorithm	<a href="#">Check Form</a>	<a href="#">Approve</a>	<a href="#">Discard</a>
------------	--------	------------	------	--	----------------------------	-------------------------	-------------------------

Once the faculty level Doctorate Committee approves the form, now the form is promoted to its final phase i.e. Admin's Approval.

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Student ▾

[Logout](#)

Hello Ritam Guha, your registration is in Under Process. We will notify you once your Registration gets Complete. You can track your Registration Phase here.



Admin's page is private and only admin's of Jadavpur can access this webpage. Admin will check whether the student has already paid the fees or not and mark it as per the fees status of student and assign it with enrollment ID to a student and approve.

List of students pending for approval					
Student Id	Name	Address	Thesis title	Approval	
STUD000016	RITAM GUHA	KHARDAH	null		<a href="#">View Details</a>

Student ID: STUD000016  
Name: RITAM GUHA  
Sex: MALE  
Category: general  
DOB: 1998-01-16  
Mobile No.: 9831524527  
Address: KHARDAH  
Thesis title: null  
Proposed Theme: FEATURE SELECTION GENETIC ALGORITHM

Fees Paid: ☒ Yes ☐ No

001610501006

Approve

Reject

Once Admin's approval is done, the student has registered with his Enrollment ID given by Admin. The Registration process has completed.

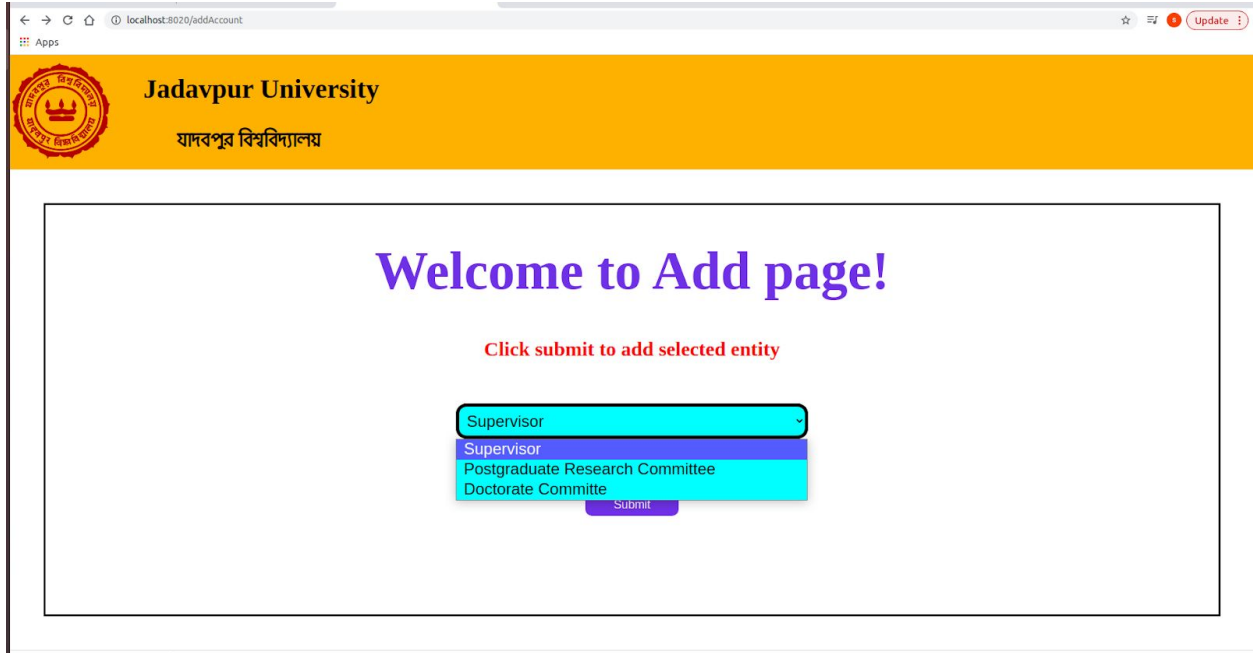
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**Congratulations, your registration is completed**

**Your Enrollment ID:001610501006**

# Creating an Account(Admin Level)

This can be done through the admin portal.



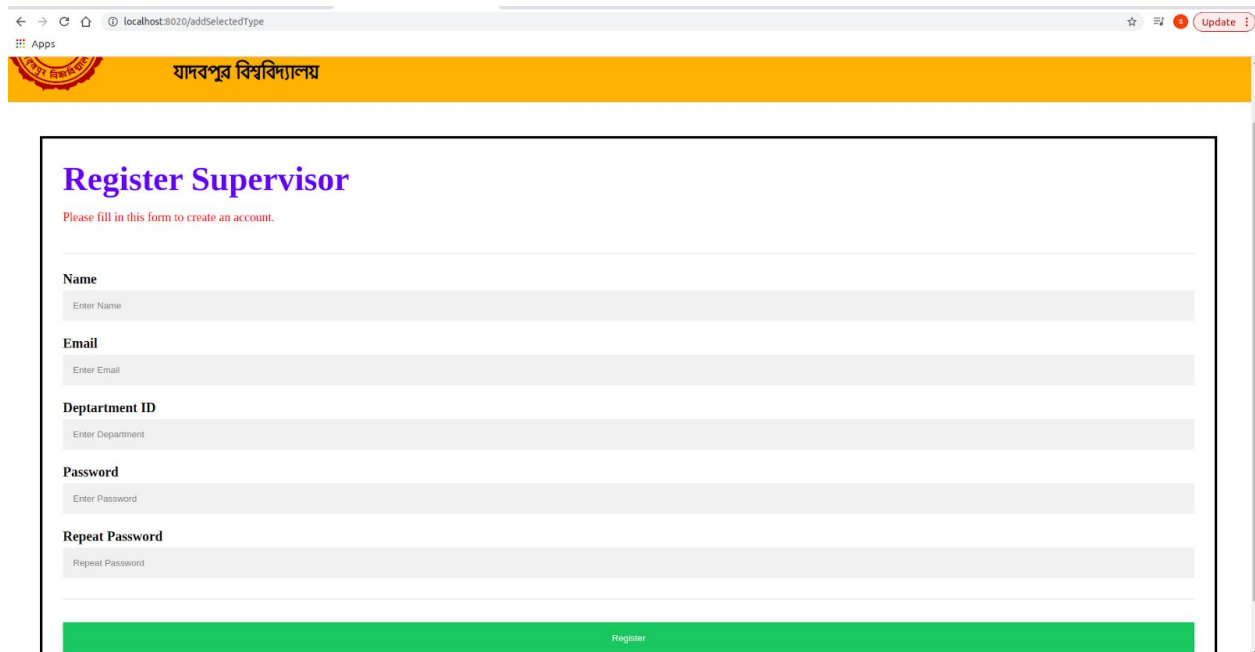
The screenshot shows a web browser window with the URL `localhost:8020/addAccount`. The page header is orange and features the Jadavpur University logo and name in English ('Jadavpur University') and Bengali ('যাদবপুর বিশ্ববিদ্যালয়'). The main content area has a white background with a purple heading 'Welcome to Add page!'. Below the heading is a red instruction: 'Click submit to add selected entity'. There is a dropdown menu with 'Supervisor' selected, and a list of options: 'Supervisor', 'Postgraduate Research Committee', and 'Doctorate Committe'. A purple 'Submit' button is located below the list.

**Currently there are 3 types of account that can be created:**

- Supervisor
- Postgraduate Research Committee
- Doctorate Committee

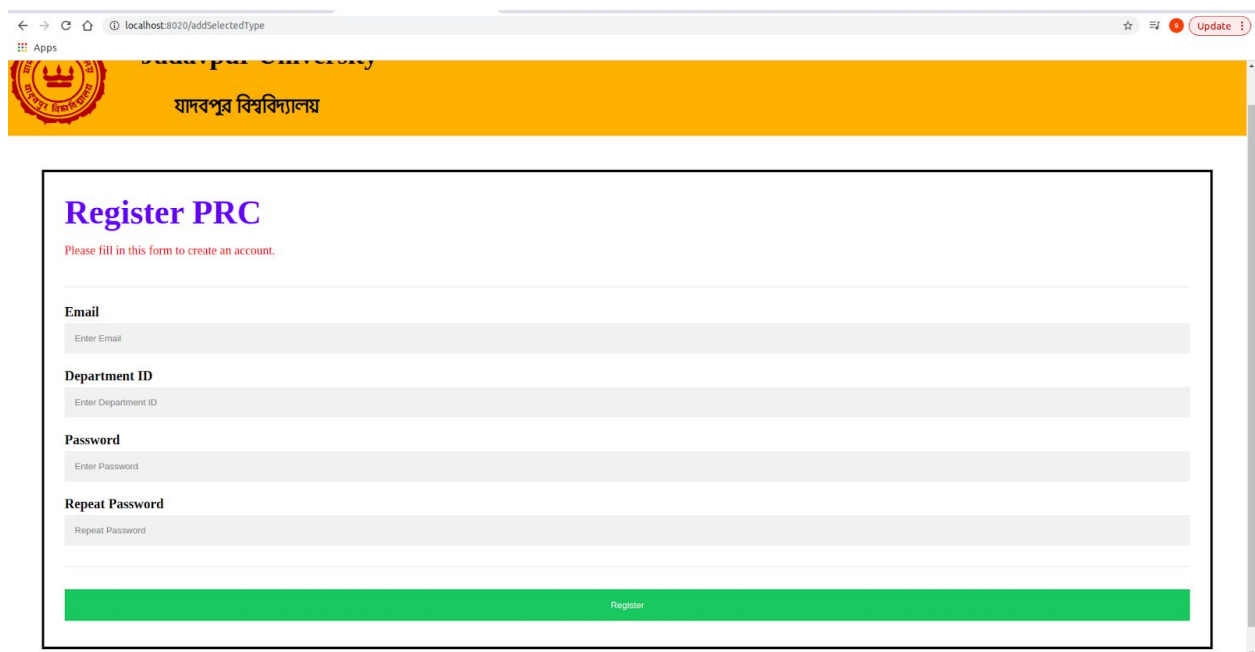
After we select one of these options and click on the submit button, we will get the different types of form according to the option we have selected.

## The form for Supervisor is:



The screenshot shows a web browser window with the address bar displaying 'localhost:8020/addSelectedType'. The page has a yellow header with a logo on the left and the text 'যাদবপুর বিশ্ববিদ্যালয়' (Jadavpur University) in the center. The main content area is titled 'Register Supervisor' in purple. Below the title, a red text prompt says 'Please fill in this form to create an account.' The form consists of several input fields: 'Name' (with placeholder 'Enter Name'), 'Email' (with placeholder 'Enter Email'), 'Department ID' (with placeholder 'Enter Department'), 'Password' (with placeholder 'Enter Password'), and 'Repeat Password' (with placeholder 'Repeat Password'). At the bottom of the form is a green button labeled 'Register'.

## The form for Postgraduate Research Committee is:



The screenshot shows a web browser window with the address bar displaying 'localhost:8020/addSelectedType'. The page has a yellow header with a logo on the left and the text 'যাদবপুর বিশ্ববিদ্যালয়' (Jadavpur University) in the center. The main content area is titled 'Register PRC' in purple. Below the title, a red text prompt says 'Please fill in this form to create an account.' The form consists of several input fields: 'Email' (with placeholder 'Enter Email'), 'Department ID' (with placeholder 'Enter Department ID'), 'Password' (with placeholder 'Enter Password'), and 'Repeat Password' (with placeholder 'Repeat Password'). At the bottom of the form is a green button labeled 'Register'.



The form for Doctorate Committee is:

The screenshot shows a web browser window with the URL `localhost:8020/addSelectedType`. The page header features the Jadavpur University logo and name in English and Bengali. The main content area is titled "Register Doctorate Committee" in purple. Below the title is a red instruction: "Please fill in this form to create an account." The form contains five input fields: "Email" (placeholder: "Enter Email"), "Faculty ID" (placeholder: "Enter Faculty ID"), "Password" (placeholder: "Enter Password"), and "Repeat Password" (placeholder: "Repeat Password"). A green "Register" button is at the bottom.

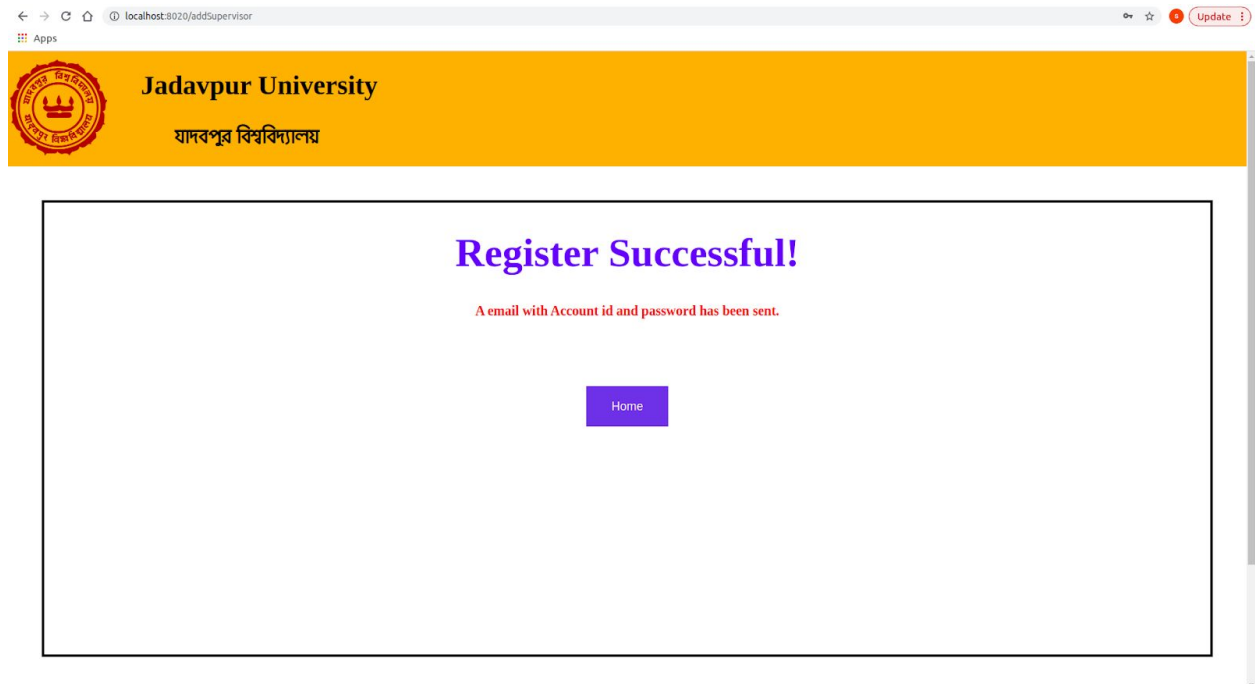
Say we try to submit this form:

The screenshot shows the same web browser window, but the form is titled "Register Supervisor" in purple. The red instruction "Please fill in this form to create an account." remains. The form fields are: "Name" (placeholder: "Shubham Goel"), "Email" (placeholder: "shubhamgoel.jucse@gmail.com"), "Department ID" (placeholder: "cse"), "Password" (placeholder: "\*\*\*\*\*"), and "Repeat Password" (placeholder: "\*\*\*\*\*"). A green "Register" button is at the bottom.

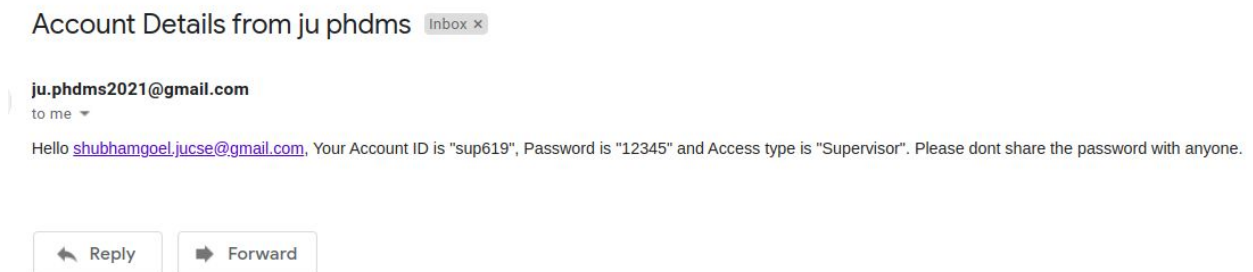
## Following are the scenarios which can occur once we fill and submit this form:

- **Success**(Occurs when the email given is not in the database, and password and repeat password matches)

After Success, we will get:



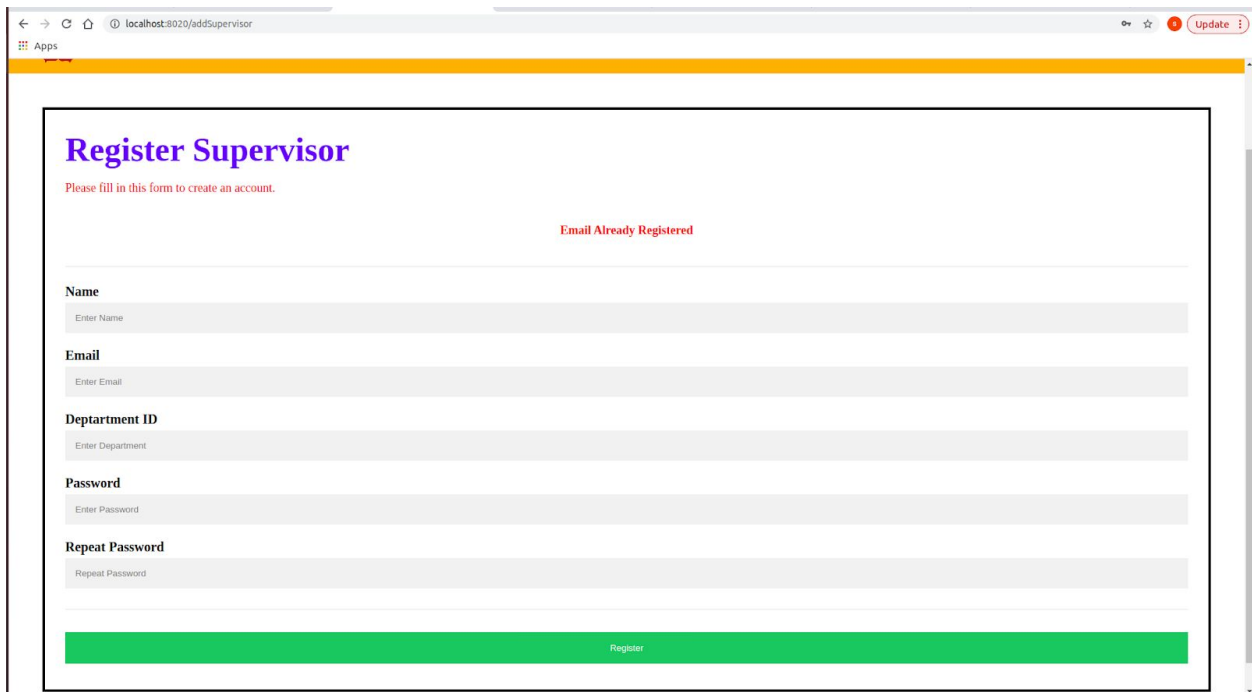
The email that the supervisor gave will have the following mail:



Now the supervisor can login into their account with these credentials from the student portal.

- **Email Already in the login table.**

Following error message will be shown to the user:

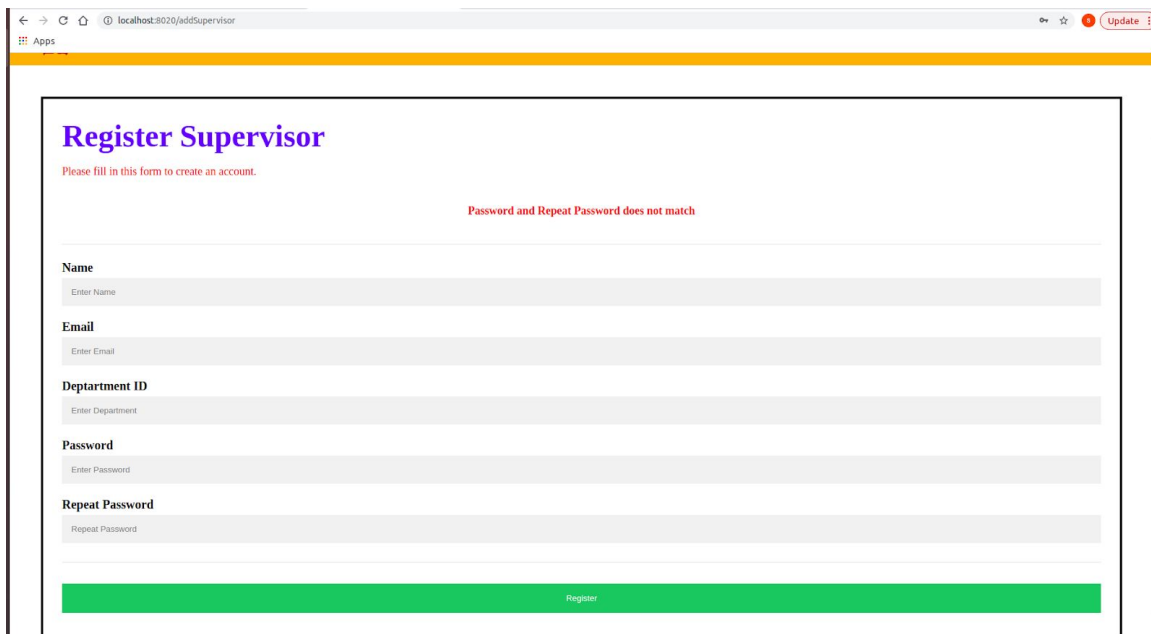


The screenshot shows a web browser window with the address bar displaying 'localhost:8020/addSupervisor'. The page has a yellow header bar. The main content area is titled 'Register Supervisor' in purple. Below the title, a red error message reads 'Email Already Registered'. The form contains five input fields: 'Name' (placeholder: Enter Name), 'Email' (placeholder: Enter Email), 'Department ID' (placeholder: Enter Department), 'Password' (placeholder: Enter Password), and 'Repeat Password' (placeholder: Repeat Password). A green 'Register' button is at the bottom.

Now the supervisor has to give a different email id to create a new account.

- **Password and Repeat Password does not match.**

Following error message will be shown to the user:



The screenshot shows the same web browser window as before. The error message now reads 'Password and Repeat Password does not match'. The form fields and the 'Register' button remain the same.

# ER DIAGRAM

