



Faculty Recruitment System



Team 12

Django Team :

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Api & Database :

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The Problem Statement

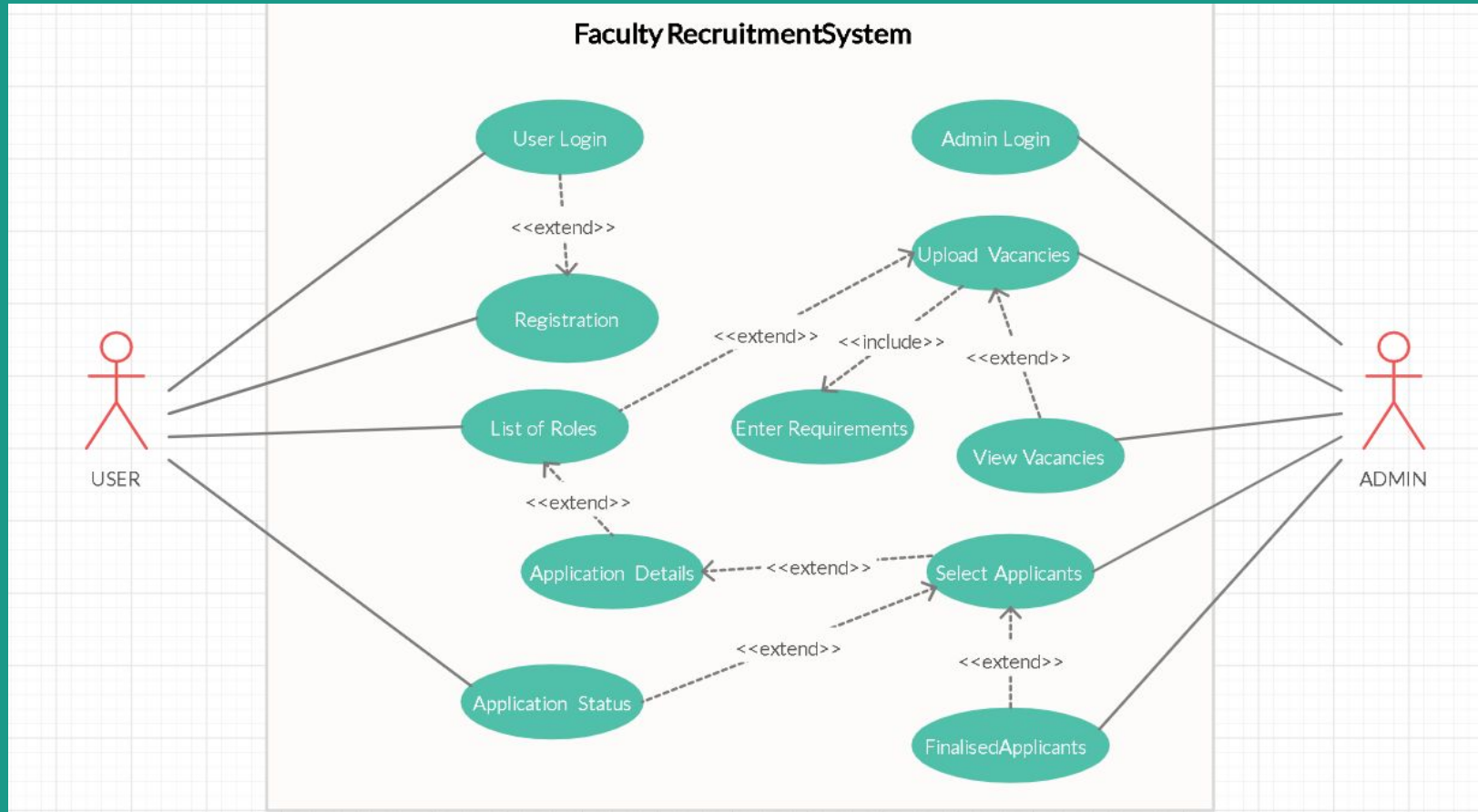
Admin

- Admin Login
- Upload all the roles with vacancies in the college
- Receive all applications from users
- Go through the User's qualifications and decide to approve or decline
- If approve recruit for only any one post from all his/her applications
- Once a faculty is recruited all the applications with respect to him should be discarded

User

- Registration with uploading all the details about Education qualifications and experience
- Login
- Home page with list of roles that he can apply and status of previous applications
- Limit number of applications to 3
- Apply for a role in college with department details and preferences of subjects
- Receive notifications about the updates regarding applications
- User cannot apply for the same role after getting declined.

Use Case Diagram

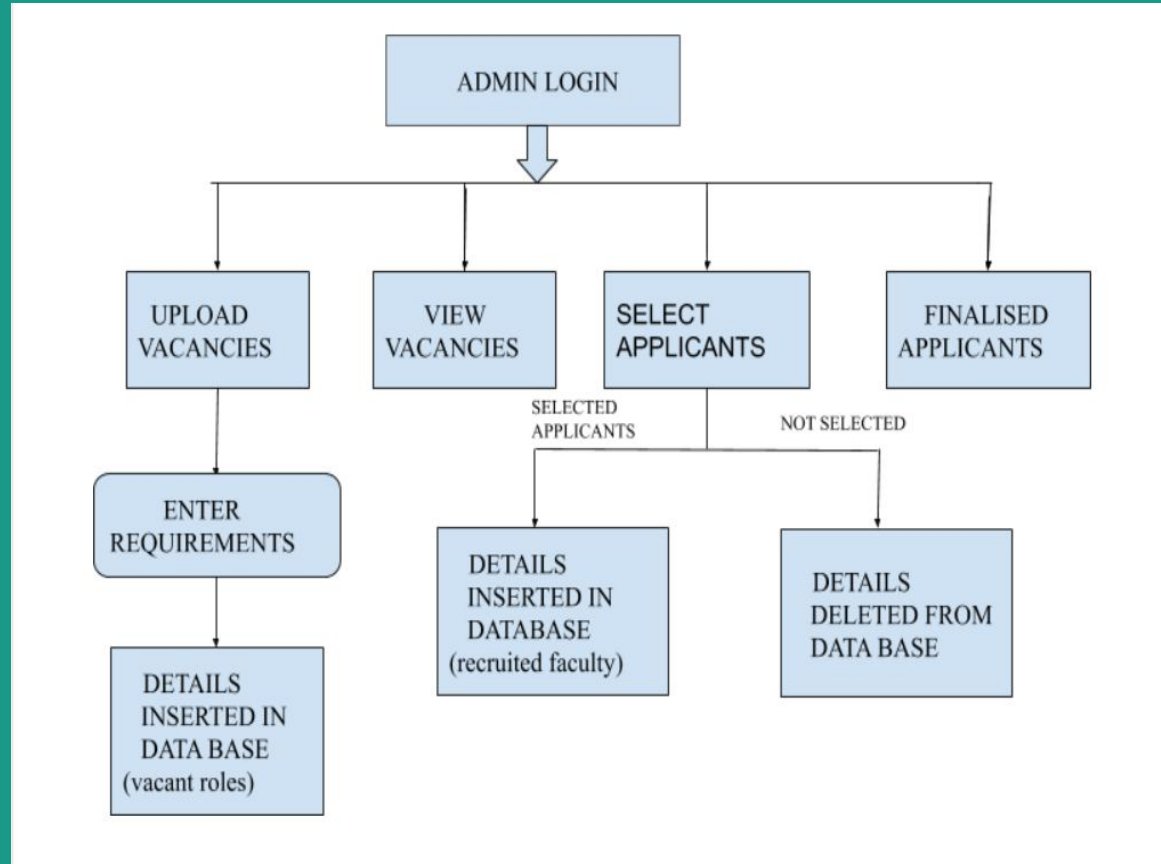


WEB APPLICATION

Technologies used are

- Django Python Framework
- HTML ,CSS,Bootstrap,JavaScript

FLOW CHART



Web Pages

- Admin Login page
- Options page
- Upload Vacancies page
- View Vacancies page
- Select Applicants page
- Recruited faculty page



Admin Login

 Admin@cosc.com



LOGIN

[Forgot Username / Password?](#)

[Create your Account](#) →

Options Page

UPLOAD VACANCIES

VIEW VACANCIES

SELECT APPLICANTS

FINALIZED APPLICANTS

Upload Vacancies

Upload Vacancies

Position:

HOD

Department:

CSE

Qualification:

PHD

Percentage:

95

UPLOAD

View Vacancies Page

VACANCY TABLE

POSITION	REQUIRED QUAL	DEPARTMENT	CGPA
COSC		T2	8.00
Professor		CSE	9.70
Prof		Mech	9.80
Prof		CSE	9.00
Prof		BioTech	9.00
Asst Prof		Mech	9.00
HOD		Civil	8.56
Asst Prof		Civil	0.00
HOD		BioTech	8.56
Asst Prof		Mech	8.56
Professor		Chemical	9.00

Select Applicants Page

SELECT APPLICANTS

EMAIL	APPLICATION NO	DEPARTMENT	QUALIFICATION	CGPA	STATUS
abc@gmail.com	16	CSE	BTech	9.5	RECIEVED
akhil@gmail.com	20	Civil	PhD	9.6	RECIEVED
fayaz@gmail.com	22	Civil	PhD	8.9	RECIEVED
fayaz@gmail.com	23	Civil	PhD	8.9	RECIEVED
fayaz@gmail.com	24	Civil	PhD	8.9	RECIEVED
namya@gmail.com	11	CSE	BE	8.5	RECIEVED
namya@gmail.com	12	CSE	BE	8.5	RECIEVED
namya@gmail.com	13	CSE	BE	8.5	RECIEVED
ranga@gmail.com	19	ECE	PhD	9.6	RECIEVED
S@gmail.com	14	CSE	BTech	9.5	RECIEVED
S@gmail.com	15	CSE	BTech	9.5	RECIEVED

Recruited Applicants Page

RECRUITED APPLICANTS

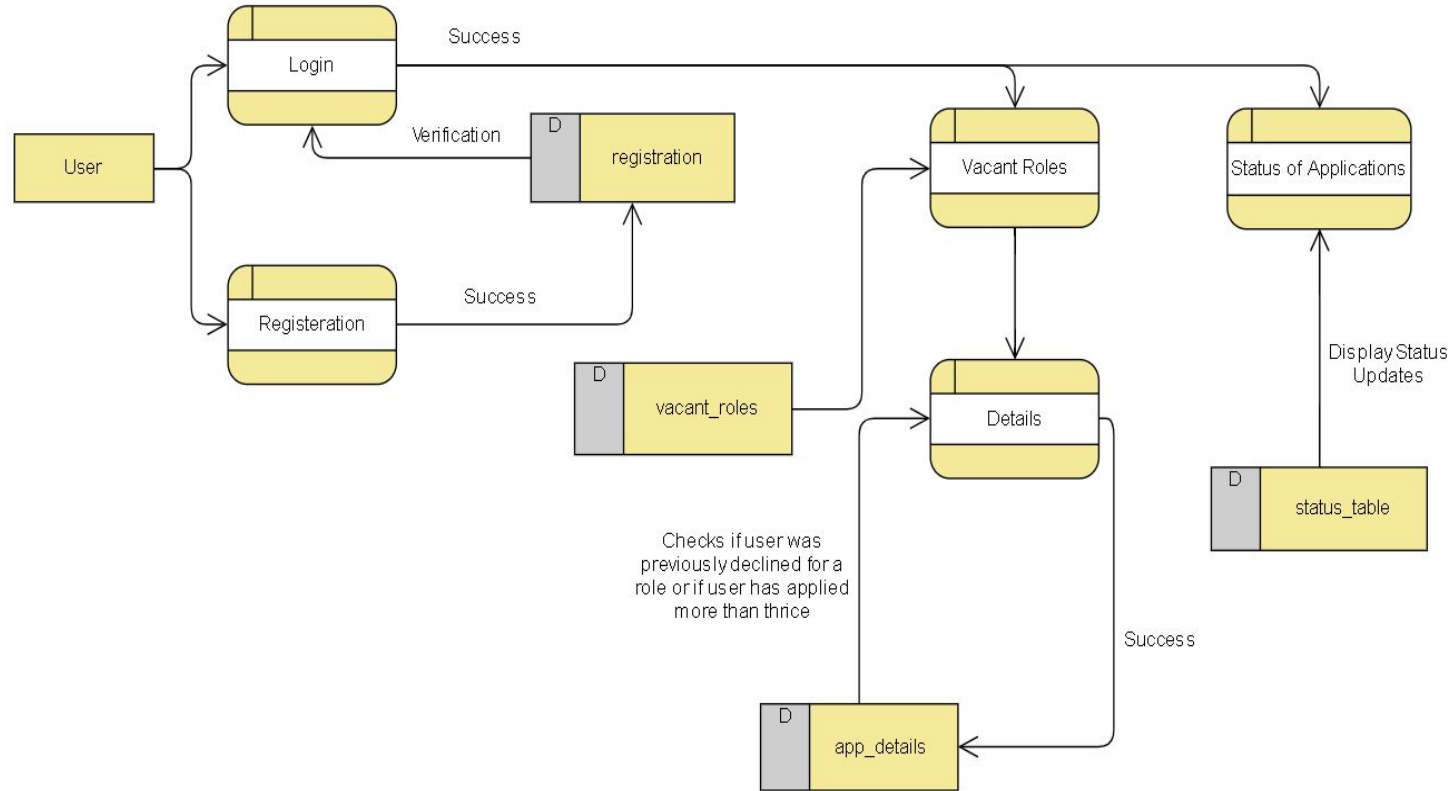
EMAILID	FIRSTNAME	LASTNAME
soumya@gmail.com	soumya	gaddam
namya@gmail.com	namya reddy	gaddam
fayaz@gmail.com	Fayaz	Shaik

OPTIONS PAGE

Mobile Application

- **Tool: Android Studio**
- **Programming Language: Java**

Data Flow Diagram



App Pages

- Main page
- User Login page
- User Registration page
- Home page
- Vacancies page
- Application Details page
- Application Status page

Main Page



User Registration Page

9:58 PM

← Registration

First Name

Last Name

Email ID

Password

Phone Number

Aadhar Number

Gender:

☐ Male

☐ Female

☐ Other

Qualifications

9:58 PM

← Registration

College Batch (ex:2001-2005)

D.O.B

Current Address

Permanent Address

Experience(in years)

Previous Office/College/

Previous Position

Achievements

Register

Login Now

6:56

← Registration

2015-2019

1999-05-08

madhapur

madhapur

1

del

se

.....

Successfully Inserted.

Login Now

6:55

← Registration

2015-2019

1999-05-08

madhapur

madhapur

1

del

se

.....


This email already exists

Login Now

User Login Page

9:58 PM

← Login



👤 Enter your email


🔒 Enter your password

LOGIN

Don't have an account? [Register here](#)

10:39 PM

← Login



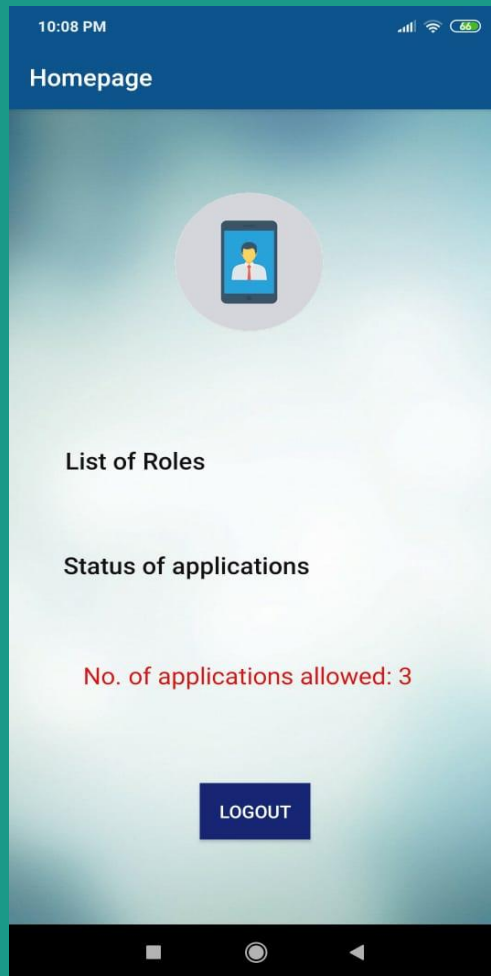
👤 @gmail.com

🔒

Invalid Email or Password

Don't have an account? [Register here](#)


Home Page



Vacant roles page

10:05 PM

← List of Roles




Role Id :	<built-in
Role Name :	COSC
Prerequisites :	COSC
Dept Name :	T2
Role Id :	1
Role Name :	Professor
Prerequisites :	PHD
Dept Name :	CSE
Role Id :	1398738881
Role Name :	Prof
Prerequisites :	PHD
Dept Name :	Mech
Role Id :	1400869488
Role Name :	Prof
Prerequisites :	PHD
Dept Name :	CSE
Role Id :	1401761413
Role Name :	Prof

Apply

Application Details Page

5:22 PM

← Details



Enter RoleId


Enter Preference Subject

Enter Subject Research Details

Submit

5:45 PM

← Details



841

Fluid mechanics


PhD

Submit

Successfully inserted

5:23 PM

← Details



601

Ds


Stacks

Submit

You can fill the application form only thrice.

7:12

← Details



301

DS

gngfn

Submit

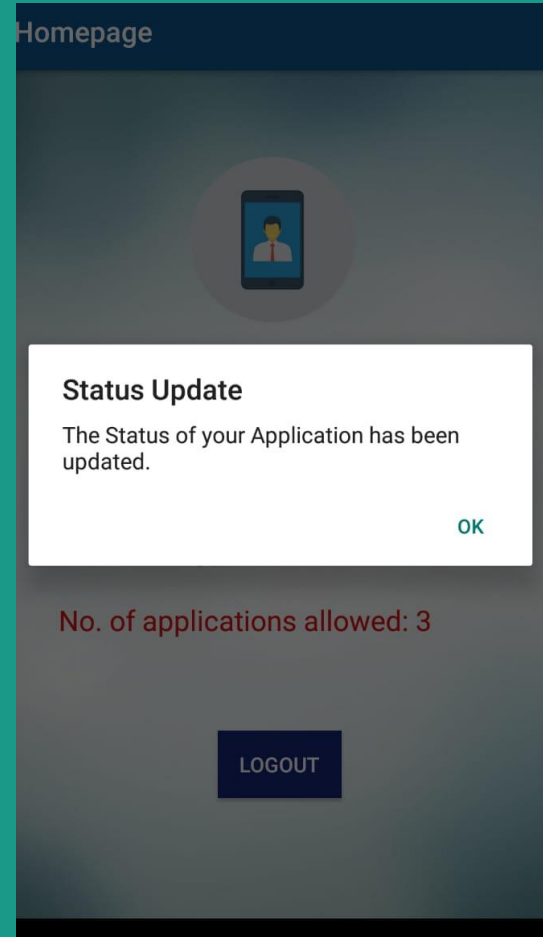
YOU HAVE BEEN DECLINED FOR THE CORRESPONDING ROLE ID. YOU CANNOT APPLY FOR THAT ROLE AGAIN

Application Status Page

A screenshot of a mobile application titled "Application Status". The header bar is dark blue with a back arrow, a settings gear, and the title "Application Status". Below the header is a light purple banner with an icon showing two people connected by a gear. The main content area is white and displays three application status entries, each separated by a horizontal line. Each entry lists five fields: Role Id, Application Id, Deptname, Position, and Status. The first entry has a status of "Declined", the second "RECIEVED", and the third "RECIEVED". At the bottom of the screen is a light blue bar with a dark blue "Back" button. The Android navigation bar is visible at the very bottom.

Role Id :	Application Id :	Deptname :	Position :	Status :
301	4	CSE	Professor	Declined
922	7	IT	Professor	RECIEVED
559	8	CSE	Professor	RECIEVED

Application Status Update



DATABASE AND APIs

PROGRESS - DB AND API TEAM:

ALL THE DATABASE TABLES AND APIs HAVE BEEN DESIGNED. REQUIRED MODIFICATIONS FOR DJANGO TEAM AND MOBILE APP DEV TEAM HAVE BEEN DONE.

LINK TO DEPLOYED APIs : <https://admintesting.herokuapp.com/>

TECHNOLOGY STACK:

Programming Languages Used

For DataBases : MySQL

For API : FLASK

Tools used

VSCoDe for code,POSTMAN for testing , HEROKU for deploying

DATABASE TABLES

REGISTRATION TABLE

	First_Name	Last_Name	EmailId	passw	Aadhar_Passport_No	Phone_No	Graduated_College	Dept_Qualified	Qualification
	abc	def	abc@gmail.com	defgh	94167	8456123155	SNIST	MECH	BTech
	gggd	hvhf	asd@gmail.com	asd123	4656454	3546454	bnbdbn	jbvdbv	dh
	gggd	hvhf	asdbb@gmail.com	asd123	4656454	3546454	bnbdbn	jbvdbv	dh
	dfg	ccf	asdf@gmail.com	asdf123	5674765	5747587777	gg8	gg	ggg
	sage	b	b@comp.com	b123	15133	16254	cd	IT	phd

CGPA	achievements	College_Batch	Previous_office	previous_position	years_of_service	Gender	DOB	Current_address	permanent_address
7.50	asdfg	2015-2019	DEL	SDE	4	Male	1998-05-03	asdfg	jhgfre
8	dbhvd	dbhjd	vdj	vfj	vdjd	hvd	1998-09-08	dbdj	vh
8	dbhvd	dbhjd	vdj	vfj	vdjd	hvd	1998-09-08	dbdj	vh
8	f	2015-2019	fdsf	fs	5	Male	1999-09-09	fdvf	s
7	n	2000-2005	cafn	asst	10	Female	1/9/1991	hvd	hvd

VACANT ROLES

	vacant_roll_id	Dept_name	Position_vacant	Required_quali	percentage
▶	<built-in	T2	COSC	COSC	8.00
	1	CSE	Professor	PHD	9.70
	1398738881	Mech	Prof	PHD	9.80
	1400869488	CSE	Prof	PHD	9.00
	1401761413	BioTech	Prof	PHD	9.00
	1403340877	Mech	Asst Prof	PHD	9.00
	1404325494	Civil	HOD	PHD	8.56
	1404362053	Civil	Asst Prof		0.00
	1405018348	BioTech	HOD	PHD	8.56

APPLICATION DETAILS

Application_id	EmailId	preferred_subj	Roll_id	Research_details
47	Namittha@gmail.com	VLSI	132453	asdf
51	xcv@gmail.com	cdx	3	dcfd
52	abc@gmail.com	sd	4	scd
53	abc@gmail.com	sd	4	scd
54	tejaswinijakka@gmail.com	DS	1	dds
59	sal@company.org	EM	6	bcd
60	sal@company.org	EM	6	bcd

STATUS TABLE

	Application_id	id_Status	prev_status
▶	1	declined	declined
	7	RECIEVED	abc
	10	Recieved	abc
	27	Recieved	Recieved
	28	Recieved	Recieved

RECRUITED FACULTY

	EmailId	Roll_id
▶	srihitha.reddy23@gmail.com	1
	fgh@gmail.com	2
	fas@gmail.com	3
	edf@gmail.com	1
	rahul@gmail.com	231423
	tejaswinijakka@gmail.com	1
	Namittha@gmail.com	132453



VIEW:

	Application_id	EmailId	preferred_subj	Roll_id	Research_details	Dept_Qualified	Qualification	CGPA
▶	47	Namittha@gmail.com	VLSI	10	asdf	ECE	BTech	9.50
	160	tejaswinijakka@gmail.com	cv	3	cv	CSE	Btech	8.50
	161	tejaswinijakka@gmail.com	cv	3	cv	CSE	Btech	8.50
	203	sam@gmail.com	b	5	d	it	b	6
	204	sam@gmail.com	f	7	a	it	b	6

APIs

15 APIs in total

Tested using postman,

Pushed into GitHub,

Deployed using Heroku

team12	
15 requests	
GET	/user
POST	/userlogin
GET	/seestatus
POST	/addvacantroles
GET	/seedetails
POST	/writestatus
POST	/recruitfaculty
POST	/appdetails
GET	/checkfaculty
POST	/userreg
GET	/seevacantroles
GET	/mydetails
GET	/seevacanciesadmin
POST	/declined
GET	/updatestatus



APIs

- /addvacantroles : POST to VACANT ROLES Table (Admin Side)

The screenshot displays a REST client interface with the following details:

- Method:** POST
- URL:** https://admintesting.herokuapp.com/addvacantroles
- Body (JSON):**

```
{  "vacant_roll_id": "5",  "Dept_name": "PRODUCTION",  "Position_vacant": "Assistant Professor",  "Required_quali": "BTech",  "percentage": "9.0"}
```
- Status:** 201 CREATED
- Time:** 5.14 s
- Size:** 248 B
- Response (JSON):**

```
{  "message": "Successfully Inserted."}
```

The interface includes tabs for Params, Authorization, Headers (9), Body, Pre-request Script, Tests, and Settings. The response section also has tabs for Body, Cookies, Headers (7), and Test Results. The bottom of the screen features a Bootcamp logo and a link for application information.

APIs

- /userreg : POST to Registration Table (USER side)

The screenshot displays a REST client interface with the following details:

- Endpoint:** `https://admintesting.herokuapp.com/userreg`
- Method:** POST
- Body (JSON):**

```
1 {
2   "First_Name": "SRK",
3   "Last_Name": "Khan",
4   "EmailId": "S@gmail.com",
5   "Passw": "dfghj",
6   "Aadhar_Passport_No": "494177",
7   "Phone_No": "9494438496",
8   "Graduated_College": "CBIT",
9   "Dept_Qualified": "CSE",
10  "Qualification": "BTech",
11  "CGPA": 9.5,
12  "achievements": "asdfgv",
13 }
```
- Status:** 201 CREATED
- Time:** 2.48 s
- Size:** 248 B
- Response (JSON):**

```
1 {
2   "message": "Successfully Inserted."
3 }
```

APIs

- `/userlogin` : Takes EmailId , Password and returns JWT token, if it exists in REGISTRATION

The screenshot displays a REST client interface for a POST request to `https://admintesting.herokuapp.com/userlogin`. The request body is a JSON object with `"EmailId": "matt@company.org"` and `"Passw": "matt123"`. The response status is `200 OK` with a time of `3.48 s` and a size of `495 B`. The response body is a JSON object containing an `"access_token"` value.

Request:

```
POST https://admintesting.herokuapp.com/userlogin
```

Body:

```
{  "EmailId": "matt@company.org",  "Passw": "matt123"}
```

Response:

```
{  "access_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOiE1OTI4NDk5ODIsIm5iZiI6MTU5Mjg0OTk4MiwianRpIjoiaOTBkOGZjZDYtMTA0My00MTQ2LTgzYTAtMzQwODBiN2I0Mzk3IiwiaW9RbnRpdHkiOiJtYXR0QG9NbXBhbnkub3JnIiwiaWZnIjc2giOmZhbHN1LCJ0eXB1IjoieWVnIiwiaWF0IjoiJCo8OvSd1W47YZGLDRRNVSEeNP4zHS4yWUZM3FCK1MY"}
```

APIs

- `/seevacantroles` : GETs all the details from VACANT ROLES for user to see vacancies.

The screenshot displays a REST client interface with a GET request to `https://admintesting.herokuapp.com/seevacantroles`. The request is sent, and the response is shown in the 'Body' tab, formatted as JSON. The response contains an array of two objects, each representing a role with its department, prerequisites, role name, and role ID.

```
1 [
2   {
3     "Department": "T2",
4     "Prerequisites": "COSC",
5     "Role": "COSC",
6     "Role ID": "<built-in "
7   },
8   {
9     "Department": "CSE",
10    "Prerequisites": "PHD",
11    "Role": "Professor",
12    "Role ID": "1"
```

APIs

- /appdetails : POST application details entered by user to the application Table.

The screenshot displays a REST client interface with the following details:

- Method:** POST
- URL:** https://admintesting.herokuapp.com/appdetails
- Body Type:** JSON
- Request Body:**

```
1 {  
2   "EmailId": "matt@company.org",  
3   "preferred_subj": "DS",  
4   "Roll_id": "4",  
5   "Research_details": "dds"  
6 }
```
- Status:** 200 OK
- Time:** 3.67 s
- Size:** 242 B
- Response Body (JSON):**

```
1 {  
2   "message": "Successfully inserted"  
3 }
```

APIs

- /appdetails : Continuation

Lets User enter application form only thrice.

The screenshot shows a REST client interface for a POST request to `https://admintesting.herokuapp.com/appdetails`. The request body is a JSON object with the following fields:

```
{  "EmailId": "matt@company.org",  "preferred_subj": "DS",  "Roll_id": "7",  "Research_details": "dds"}
```

The response status is `400 BAD REQUEST` with a time of `2.90 s` and a size of `276 B`. The response body is a JSON object with the following field:

```
{  "message": "You can fill the application form only thrice."}
```

The interface includes tabs for Params, Authorization, Headers (10), Body, Pre-request Script, Tests, and Settings. The Body tab is selected, and the response is displayed in the bottom section with tabs for Body, Cookies, Headers (7), and Test Results. The response is formatted as JSON and includes a 'Save Response' button.

APIs

- /appdetails : Continuation

Does not let User enter application form for the same Role, if he was declined previously.

The screenshot displays a REST client interface with a POST request to `https://admintesting.herokuapp.com/appdetails`. The request body is a JSON object with the following fields:

```
{  "EmailId": "matt@company.org",  "preferred_subj": "DS",  "Roll_id": "7",  "Research_details": "dds"}
```

The response status is `200 OK` with a time of `5.44 s` and a size of `312 B`. The response body is a JSON object with a single field:

```
{  "message": "YOU HAVE BEEN DECLINED FOR THE CORRESPONDING ROLE ID. YOU CANNOT APPLY FOR THAT ROLE AGAIN"}
```

The interface includes tabs for Params, Authorization, Headers (10), Body, Pre-request Script, Tests, and Settings. The Body tab is selected, showing the request and response bodies. The response body is displayed in a Pretty view, showing the message text.

APIs

- `/writestatus` : POSTs status inserted or updated by admin to an application into DB.

The screenshot displays a REST client interface with the following details:

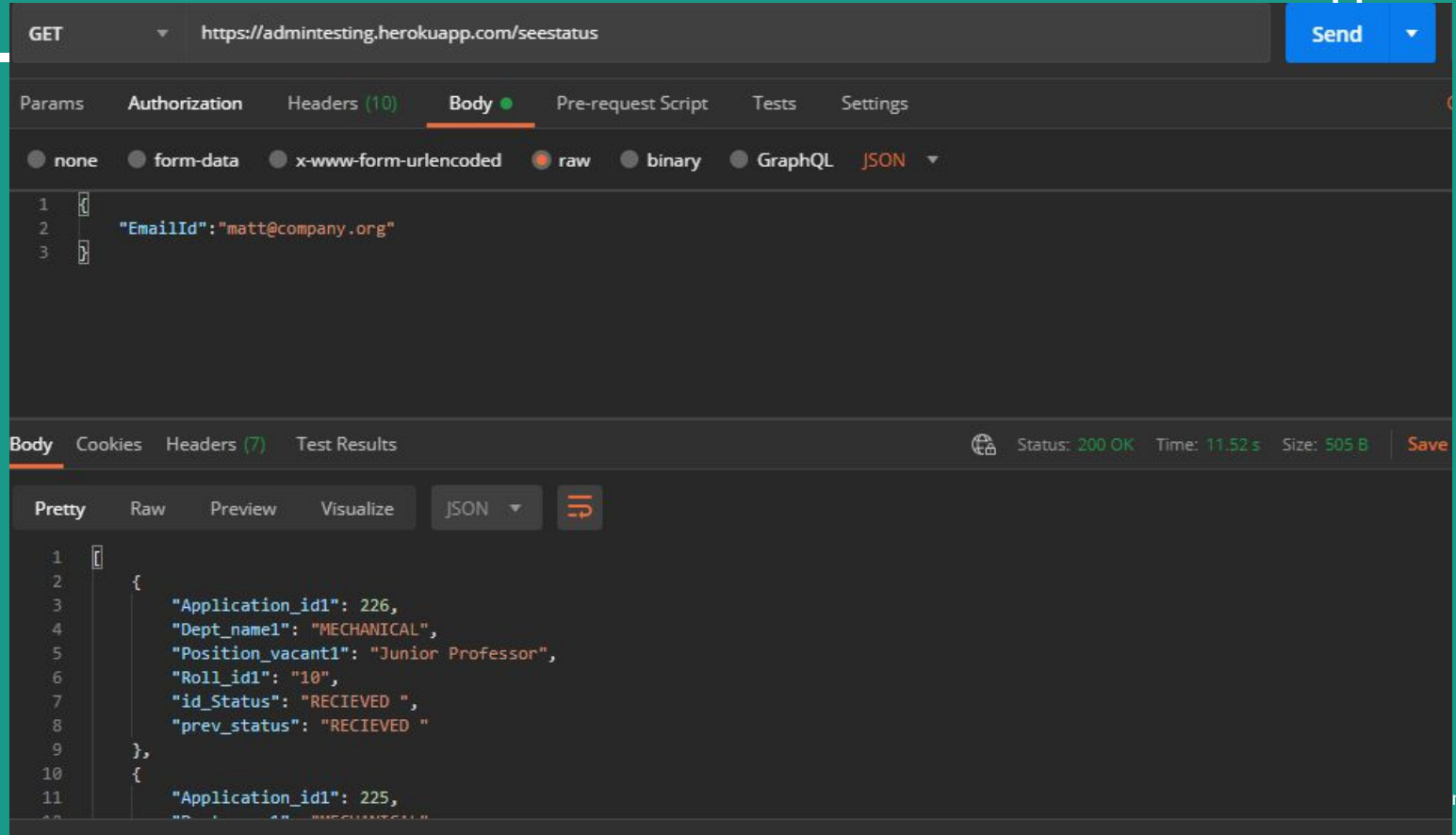
- Method:** POST
- URL:** `https://admintesting.herokuapp.com/writestatus`
- Body Type:** JSON
- Request Body:**

```
{
  "Application_id": 7,
  "id_Status": "RECIEVED"
}
```
- Status:** 201 CREATED
- Time:** 4.04 s
- Size:** 2
- Response Body:**

```
{
  "message": "Successfully Inserted."
}
```

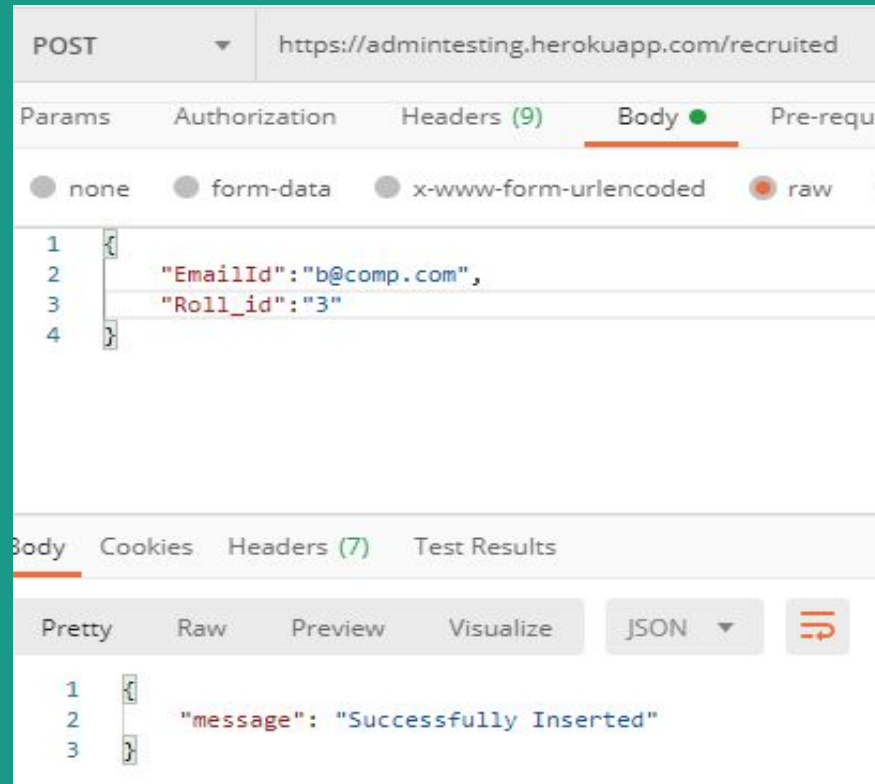
APIs

- `/seestatus` : GETs status written from DB so that user can see the status of his applications.



APIs

/recruited : POSTs info of the applicants who were recruited into DB. This API also deletes the applications of the user who is recruited as faculty, it also deletes the ROLE from VACANT ROLES Table to which the faculty was appointed.



Thank You

