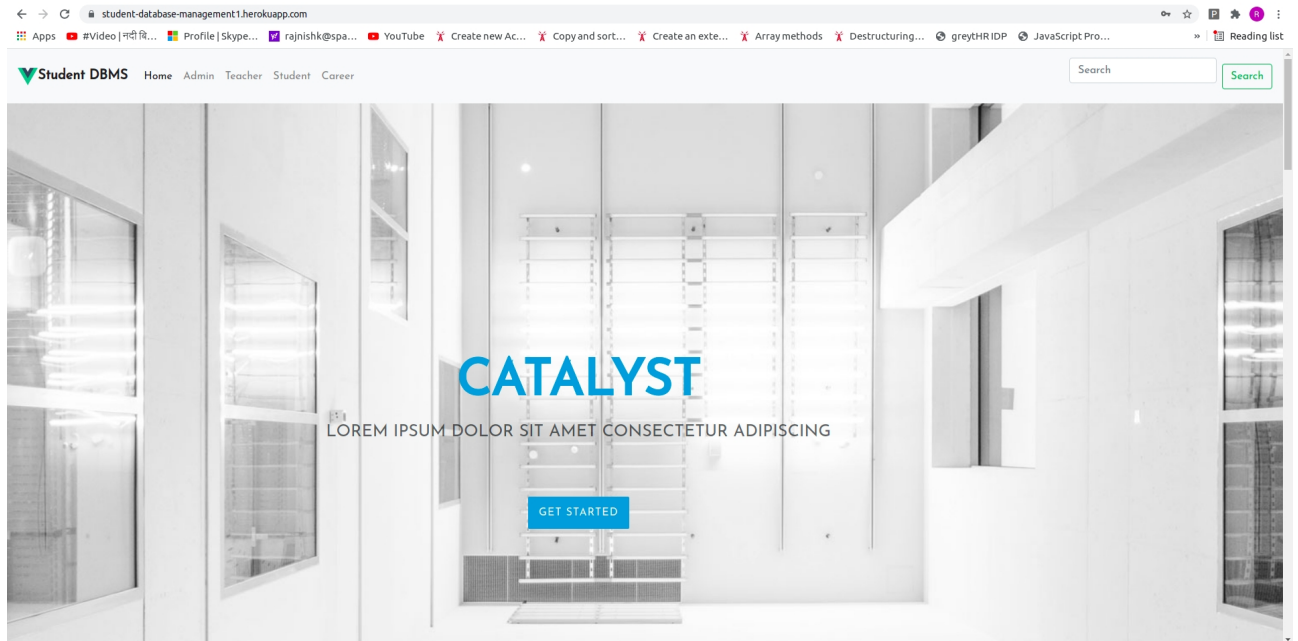


Student Database Management

SECTION A: Common Features

1. Home Page

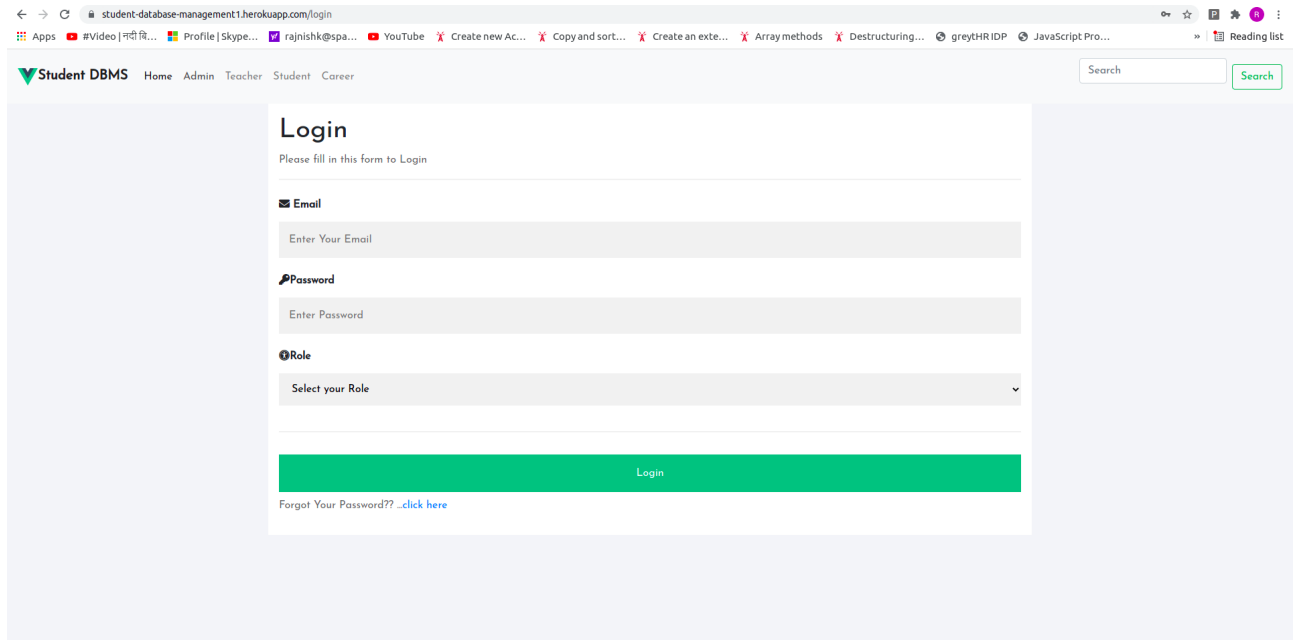


***Home Page contains:

- a. Logo and Title(Student DBMS)
- b. Home on clicking on it user will stay on the same page i.e Home page)
- c. Admin
- d. Teacher
- e. Student
- f. Career Section(link to apply for a teacher job)

Note: After clicking on Admin,Teacher and Student link user will be redirected to common Login Page.

2. Common Login Page:



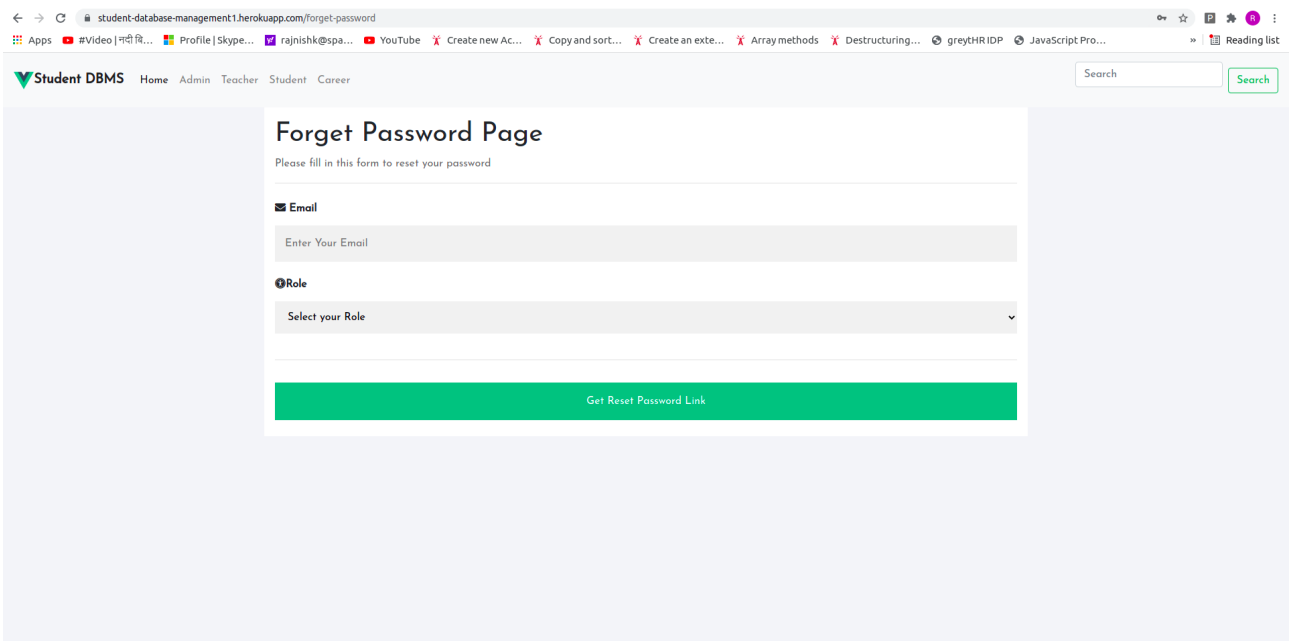
The screenshot shows a web browser window with the URL `student-database-management1.herokuapp.com/login`. The page has a navigation bar with links: Home, Admin, Teacher, Student, and Career. A search bar is located in the top right corner. The main content area is titled "Login" and includes the instruction "Please fill in this form to Login". The form consists of three fields: "Email" (with placeholder "Enter Your Email"), "Password" (with placeholder "Enter Password"), and "Role" (a dropdown menu with "Select your Role"). Below the fields is a green "Login" button. At the bottom of the form, there is a link: "Forgot Your Password?? [click here](#)".

*** There is a common login page based on the role of user.

*** There are three Roles in the application which are Admin, Teacher and Student.

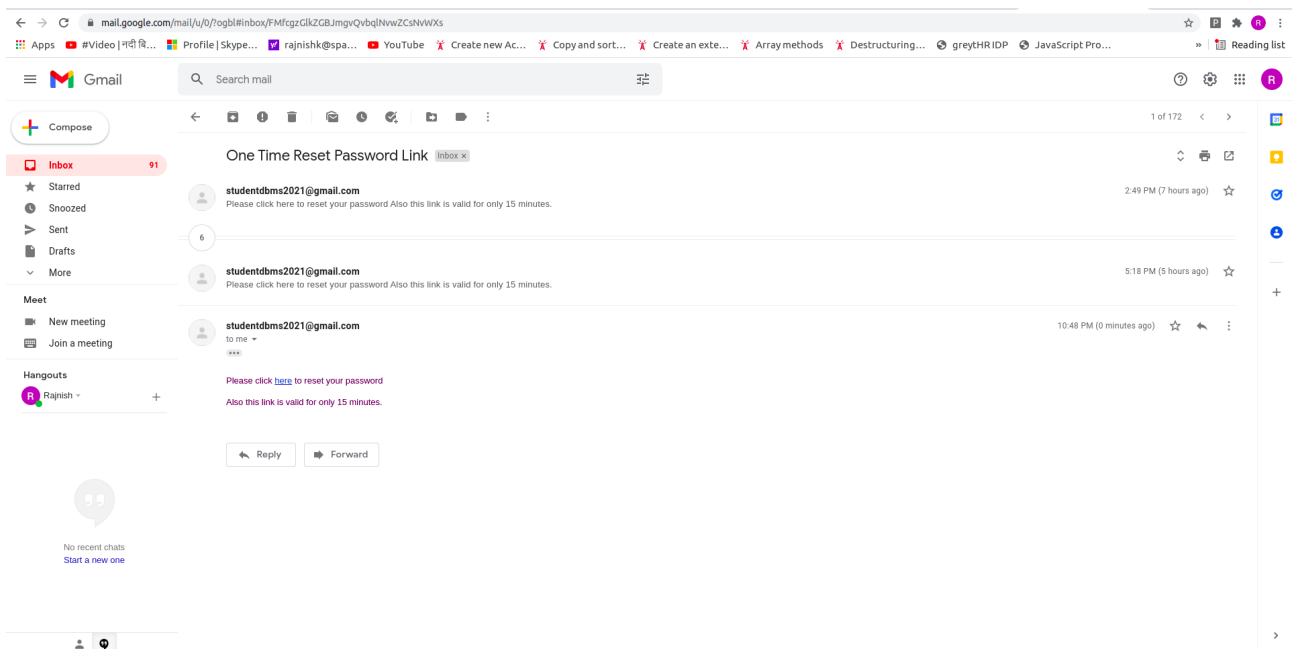
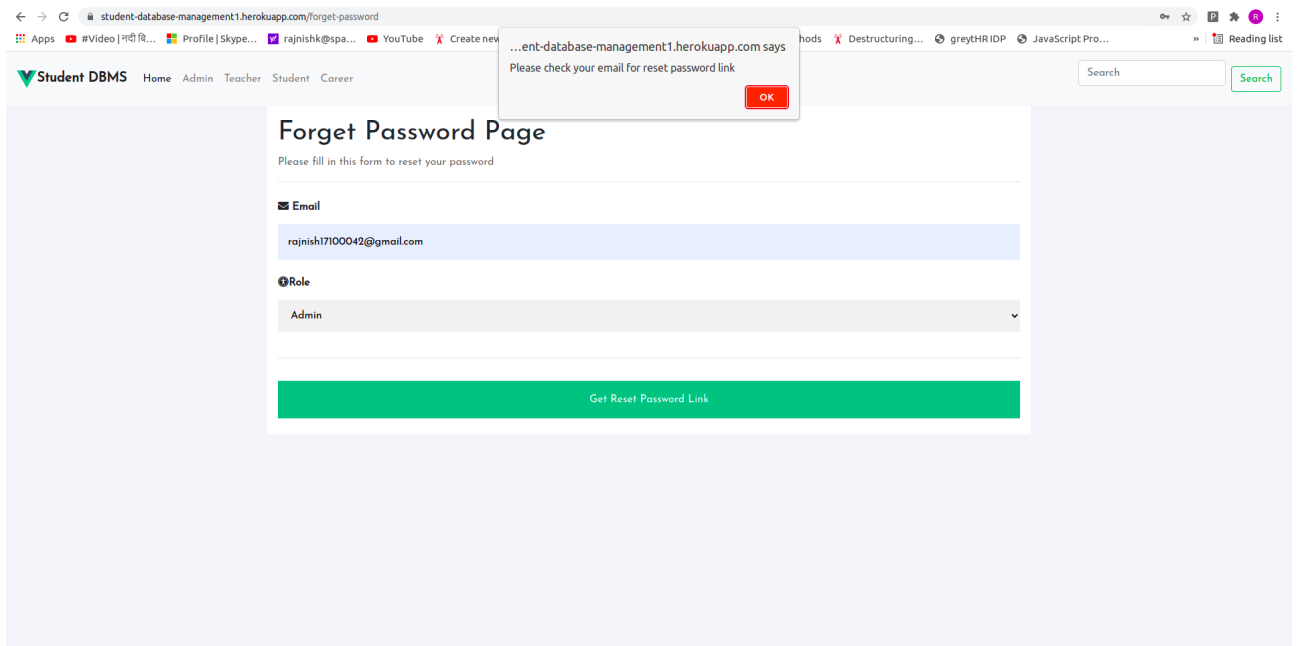
Note: At the bottom of the common login page there is a link to forget password page.

3. Forget Password Page:



The screenshot shows a web browser window with the URL `student-database-management1.herokuapp.com/forget-password`. The page has the same navigation bar and search bar as the login page. The main content area is titled "Forget Password Page" and includes the instruction "Please fill in this form to reset your password". The form consists of two fields: "Email" (with placeholder "Enter Your Email") and "Role" (a dropdown menu with "Select your Role"). Below the fields is a green button labeled "Get Reset Password Link".

*** After verifying the email and the role a reset password link will be sent to user on mail. After clicking the link on the mail reset password page will open.



4. Reset Password Page:

The screenshot shows a web browser window with the URL `student-database-management1.herokuapp.com/reset-password/admin/rajnish17100042@gmail.com/eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJlbWpbcCI6InJham5pc2gxNzEwMDA0Mk8nbWpbcSJib20iLCJyb2kiOiJpYXQlOiE2MzU1Mj...`. The browser's address bar and tabs are visible at the top. The page header for 'Student DBMS' includes links for Home, Admin, Teacher, Student, and Career, along with a search bar. The main content area is titled 'Reset Password' and contains the instruction 'Please fill in to reset your password'. Below this, there are two input fields: 'Enter New Password' and 'Confirm New Password'. At the bottom of the form is a green button labeled 'Reset Password'.

*** After entering new password and confirm new password, password will be updated.

Section B : Admin

1. Admin Dashboard:

After entering the correct details in the common login page user will be redirected to Admin Dashboard.

Student DBMS Home Admin Teacher Student Career

Search Search

Login

Please fill in this form to Login

Email
rajnish7100042@gmail.com

Password
.....

Role
Admin

Login

Forgot Your Password?? ...click here

Student DBMS Home Admin Teacher Student Career

Search Search

Welcome Rajnish Patel! Have a nice day

[Logout](#) [Register Student](#) [Register Teacher](#) [Register Admin](#) [Issue a Notice](#) [Job Application](#) [Upload Image](#)

Students List

Name	Email	Phone	Batch	Personal Mentor	Action
Rajnish Patel	rajnish7100042@gmail.com	8863939768	Pre-Foundation	Mantosh Singh	Edit Delete Add
Shankar Singh	rajnish7100042@gmail.com	8863939768	Target	teacher	Edit Delete Add
Krishu Kumar Patel	krishukumarpatel945@gmail.com	9931465584	Achiever	Mantosh Singh	Edit Delete Add
Prabhat Kumar Patel	kumarprabhatpati328665@gmail.com	8873086204	Achiever	Mantosh Singh	Edit Delete Add
student	student@text.com	+918863939768	Pre-foundation	teacher	Edit Delete Add

Teachers List

Name	Email	Phone	Qualification	Experience	Action
Mithlesh Chaulbey	kumarprabhatpati328665@gmail.com	698745612566	PhD	15 years	Edit Delete Add
Mantosh Singh	rajnish7100042@gmail.com	69845698562	B.TECH	5 years	Edit Delete Add
Rajnish Kumar	krishukumarpatel945@gmail.com	08863939768	Phd	12 years	Edit Delete Add
Rajnish Kumar	kumarmishra0008@gmail.com	08863939768	M.Tech	12 years	Edit Delete Add
Rajnish Kumar	rajnish71000042@gmail.com	08863939768	M.Tech	12 years	Edit Delete Add

Admins List

Name	Email	Phone	Action
prabhat Kumar Patel	kumarprabhatpati328665@gmail.com	8873086204	Edit Delete Add
Admin	admin@text.com	123456789	Edit Delete Add

*** On the leftmost side of the dashboard Profile Picture,Email and Phone Number will is displayed

*** On right side of dashboard all the registration details of student, teacher and admin is displayed

*** Admin Dashboard contains:

- a. **Logout** (on clicking user will be logged out and redirected to common login page)
- b. **Register Student** (Admin will register new student through this link)
- c. **Register Teacher** (link for the teacher registration)
- d. **Register Admin** (link for the admin registration)
- e. **Issue a Notice** (link to Issue a notice)
- f. **Job Application** (all the job application will be displayed to the admin with resume of each applicant)
- g. **Upload Image** (admin will choose a profile picture which will be displayed on the dashboard)

2. Register Student Page:

student-database-management1.herokuapp.com/admin/register-student

Student DBMS Home Admin Teacher Student Career

Register Student

Please fill in this form to register students

Enter Name of Student

Enter Email

Enter Mobile Number

Enter Address

Enter City Name

Enter State

Enter Pincode

Enter Batch Name

Enter Date of Admission

Enter Personal Mentor Name

Enter Password

Confirm Password

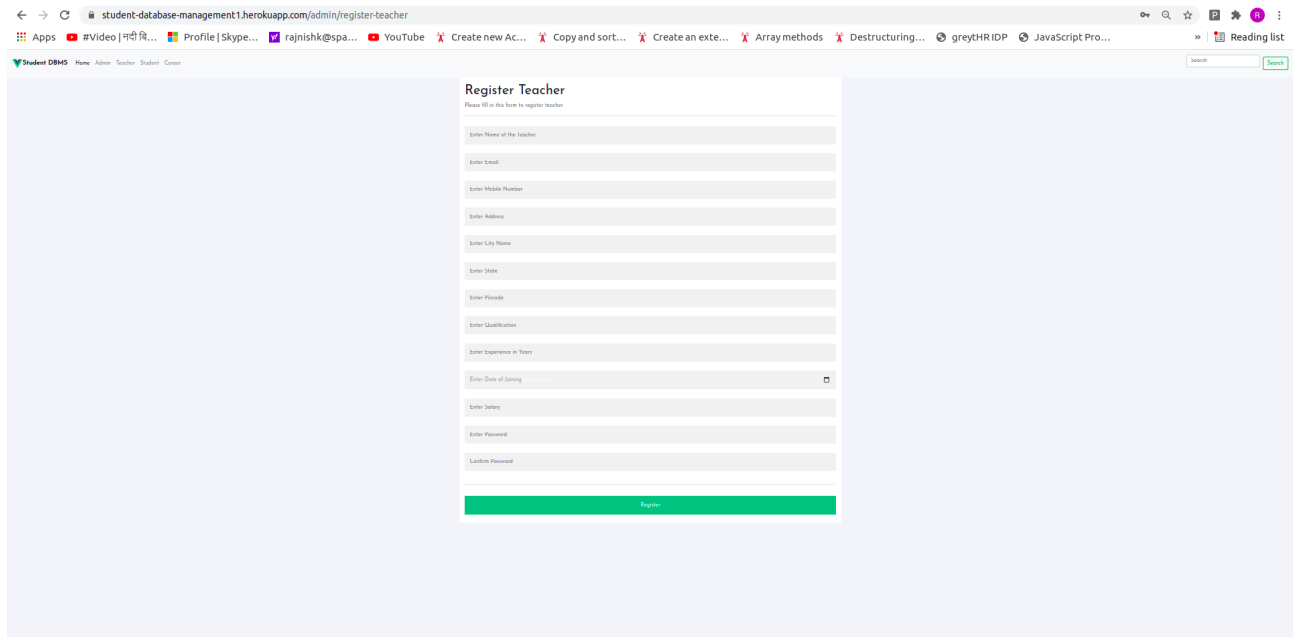
Register

Note: This page is protected. Only admin can open this page.

Json web token is used for the authentication

*** After clicking on the register button student data will be stored in the student_registration table in the database and an email will be sent to the user having information regarding password.

3. Register Teacher Page:

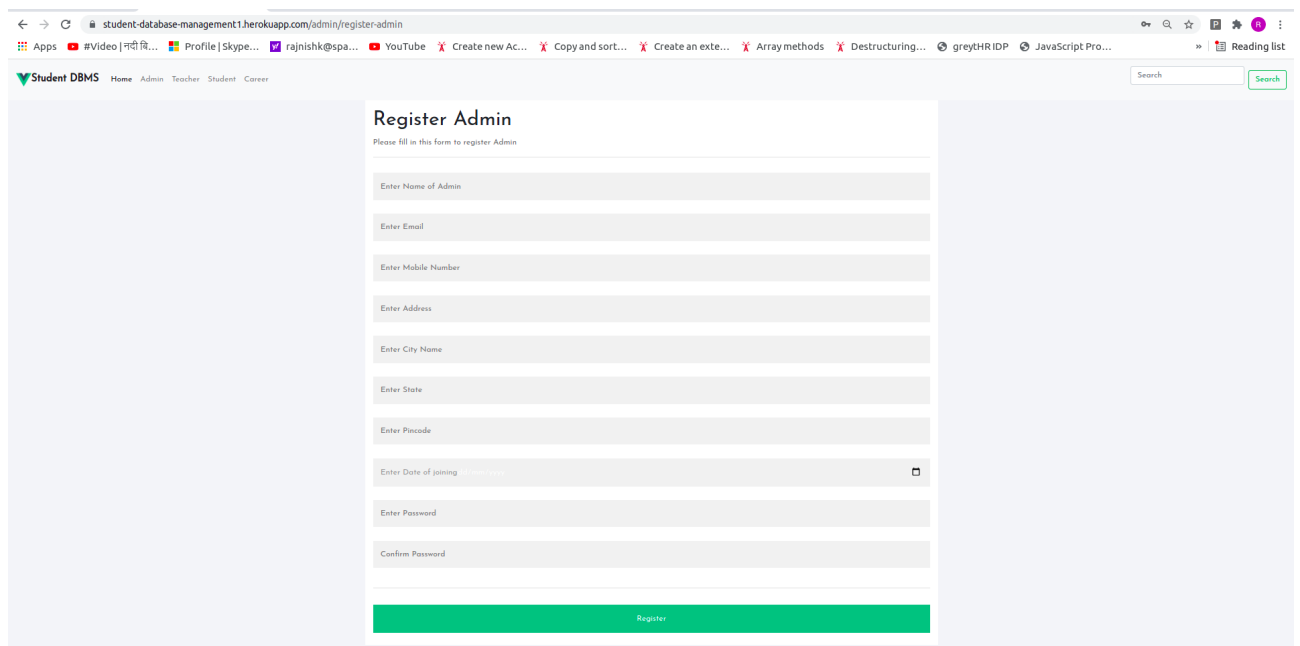


The screenshot shows a web browser window with the URL `student-database-management1.herokuapp.com/admin/register-teacher`. The page is titled "Register Teacher" and contains a form with the following fields: Enter Name of the teacher, Enter Email, Enter Mobile Number, Enter Address, Enter City Name, Enter State, Enter Pincode, Enter Qualification, Enter Experience in Years, Enter Date of joining (with a calendar icon), Enter Salary, Enter Password, and Confirm Password. A green "Register" button is at the bottom of the form. The browser's address bar and tabs are visible at the top.

*** This page is protected and only admin can open it.

*** After clicking on the register button teacher data will be stored in `teacher_registration` table in the database and an email will be sent to the user having information regarding password.

4. Register Admin Page:



The screenshot shows a web browser window with the URL `student-database-management1.herokuapp.com/admin/register-admin`. The page is titled "Register Admin" and contains a form with the following fields: Enter Name of Admin, Enter Email, Enter Mobile Number, Enter Address, Enter City Name, Enter State, Enter Pincode, Enter Date of joining (with a calendar icon), Enter Password, and Confirm Password. A green "Register" button is at the bottom of the form. The browser's address bar and tabs are visible at the top.

*** This page is also protected. Only Admin can open it.

*** After clicking on register button data will be stored in admin_registration table in the database and an email will be sent to the user having information regarding password.

5. Notice Page:

The screenshot shows a web browser window with the URL `student-database-management1.herokuapp.com/notice-board`. The page is titled "Announcement" and includes a sub-header "Please fill in this form to issue a Notice". The form contains the following fields:

- Name:** A text input field containing "Rajnish Patel".
- Email:** A text input field containing "rajnish17100042@gmail.com".
- Group:** A dropdown menu with the text "Select Group".
- Notice Date:** A date input field with the text "Enter Date of notice issued" and a calendar icon.
- Subject:** A text input field with the text "Enter subject for Notice".
- Notice:** A large text area with the text "Write notice here..." and a small icon in the bottom right corner.

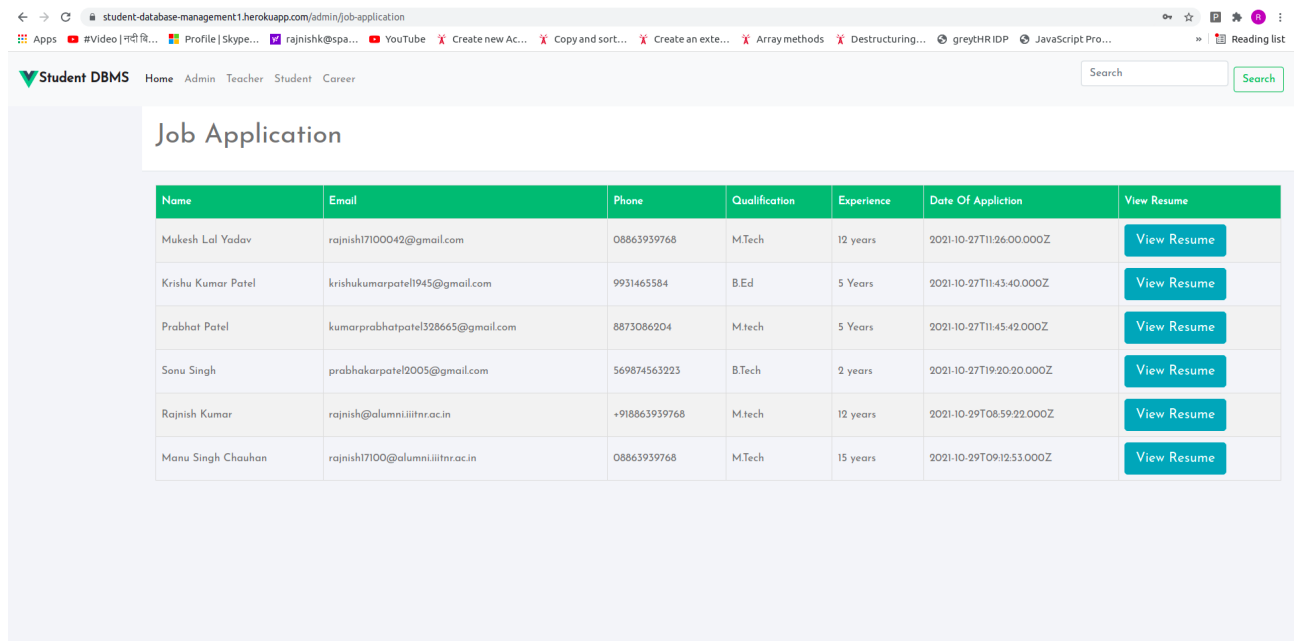
At the bottom of the form is a green button labeled "Issue Notice". The browser's address bar shows several tabs, including "Apps", "#Video | गरी बि...", "Profile | Skype...", "rajnishk@spa...", "YouTube", "Create new Ac...", "Copy and sort...", "Create an exte...", "Array methods", "Destructuring...", "greyTHR IDP", and "JavaScript Pro...". The browser's search bar is also visible.

*** This is a protected page. Only Teacher and Admin can open this page.

*** There are three groups to which notice can be sent:

- Student
- Teacher
- Common(notice will be sent on the mail of all the registered user)

6. Job Application Page:



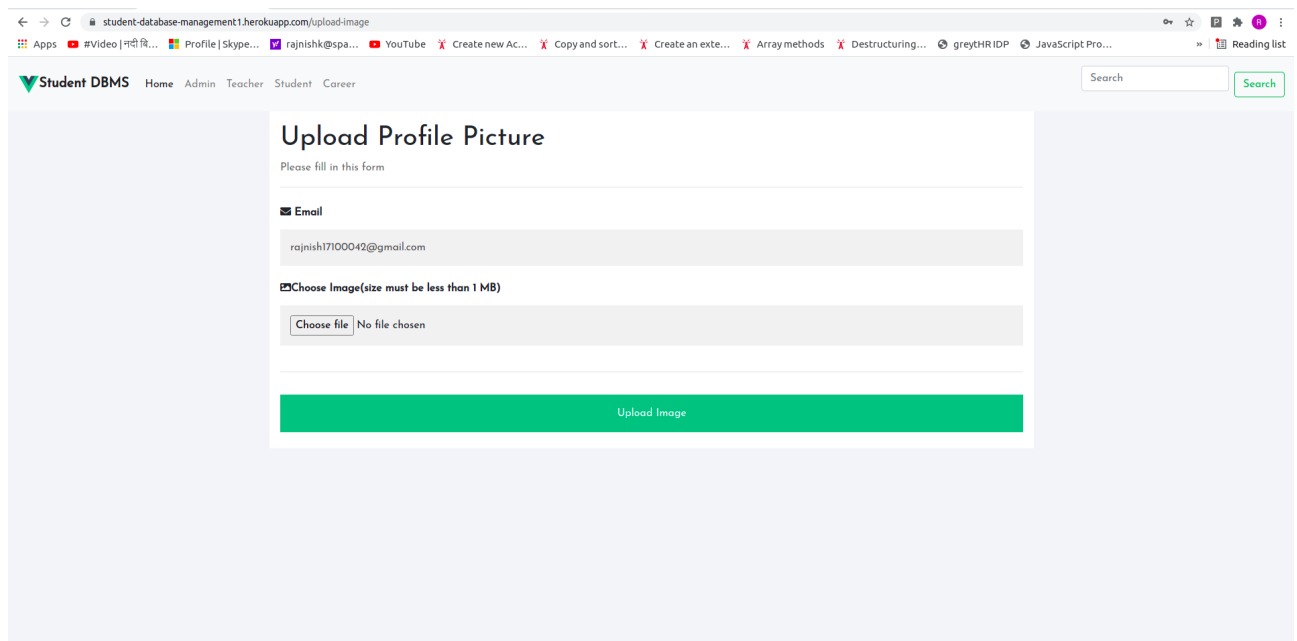
Name	Email	Phone	Qualification	Experience	Date Of Application	View Resume
Mukesh Lal Yadav	rajnish17100042@gmail.com	08863939768	M.Tech	12 years	2021-10-27T11:26:00.000Z	View Resume
Krishu Kumar Patel	krishukumarpatel1945@gmail.com	9931465584	B.Ed	5 Years	2021-10-27T11:43:40.000Z	View Resume
Prabhat Patel	kumarprabhatpatel328665@gmail.com	8873086204	M.tech	5 Years	2021-10-27T11:45:42.000Z	View Resume
Sonu Singh	prabhakarpatel2005@gmail.com	569874563223	B.Tech	2 years	2021-10-27T19:20:20.000Z	View Resume
Rajnish Kumar	rajnish@alumni.iiitn.ac.in	+918863939768	M.tech	12 years	2021-10-29T08:59:22.000Z	View Resume
Manu Singh Chauhan	rajnish171000@alumni.iiitn.ac.in	08863939768	M.Tech	15 years	2021-10-29T09:12:53.000Z	View Resume

*** This is a protected page. Only admin can open it.

*** All the job application will be displayed on this page.

*** Admin can download the resume and review it. One advancement to it can be directly displaying the resume without download.

7. Upload Image Page:



Upload Profile Picture

Please fill in this form

Email

rajnish17100042@gmail.com

Choose Image (size must be less than 1 MB)

Choose file No file chosen

Upload Image

*** This is a protected page. Only registered student, teacher, admin can open it.

*** With the help of this page user can upload profile picture which will be displayed on dashboard.

8. Displaying Registration details of Student,Teacher and Admin on admin dashboard:

Students List

Name	Email	Phone	Batch	Personal Mentor	Action
Rajnish Patel	rajnish17100@gmail.com	8863939768	Pre-Foundaion	Mantash Singh	🔍 ✎ 🗑
Shankar Singh	rajnish1710004@gmail.com	8863939768	target	teacher	🔍 ✎ 🗑
Krishu Kumar Patel	krishukumarpatel1945@gmail.com	9931465584	Acheiver	Mantash Singh	🔍 ✎ 🗑
Prabhat Kumar Patel	kumarprabhatpatel132665@gmail.com	8873086204	Acheiver	Mantash Singh	🔍 ✎ 🗑
student	student@test.com	+918863939768	Pre-foundaion	teacher	🔍 ✎ 🗑

Teachers List

Name	Email	Phone	Qualification	Experience	Action
Mihilesh Chhabey	kumarprabhatpatel132665@gmail.com	698745623568	PHD	15 years	🔍 ✎ 🗑
Mantash Singh	rajnish1710004@gmail.com	69845698562	BTECH	5 years	🔍 ✎ 🗑
Rajnish Kumar	kumarrishu2008@gmail.com	08863939768	MTech	12 years	🔍 ✎ 🗑
Rajnish Kumar	rajnish17100004@gmail.com	08863939768	MTech	12 years	🔍 ✎ 🗑
teacher	teacher@test.com	123456789	MTech	12 years	🔍 ✎ 🗑

Admins List

Name	Email	Phone	Action
Admin	admin@test.com	123456789	🔍 ✎ 🗑
Prabhakar Kumar Patel	prabhakarpate12005@gmail.com	8873086204	🔍 ✎ 🗑
Prabhat Kumar Patel	kumarprabhatpatel132665@gmail.com	8873086204	🔍 ✎ 🗑
Krishu Kumar Patel	krishukumarpatel1945@gmail.com	9931465584	🔍 ✎ 🗑

***These lists will only be displayed to the admin.

*** Admin can edit,delete and change password of users(Student, Teacher, Admin) on clicking the respective icons based on the id(one column in the database table) of the user

9. Student details updation by Admin:

student-database-management1.herokuapp.com/admin/update-student/1

Student DBMS Home Admin Teacher Student Career

Update Student

Please fill the updated data

Rajnish Patel

rajnish17100@gmail.com

8863939768

Behind Sanjeevani Hospital,yogapur

Patna

Bihar

800090

Pre-Foundaion

07/10/2021

Mantash Singh

Update

10.Student Password Updation by admin:

The screenshot shows a web browser window with the URL `student-database-management1.herokuapp.com/update-student-password/1`. The page title is "Update Student Password" and it includes a subtext "Please fill in to update the password". The form consists of three input fields: "Enter Current Password", "Enter New Password", and "Confirm New Password". Below these fields is a green button labeled "Update Password". The browser's address bar shows several open tabs, including "Apps", "#Video | रीटिंग...", "Profile | Skype...", "rajnishk@spa...", "YouTube", "Create new Ac...", "Copy and sort...", "Create an exte...", "Array methods", "Destructuring...", and "greyTHR IDP". The browser's zoom level is set to 100%, and there is a "Reset" button next to it. The page has a navigation bar with links for "Home", "Admin", "Teacher", "Student", and "Career". A search bar is located in the top right corner.

*** To change the password of student admin should know the current password otherwise no way to update the password

***Similarly admin can update details of Teacher and other Admins

Note: In the application there is a Super Admin which is registered in the initial phase of the application. There is no way to delete the super admin. Non super admin can be deleted.

Section C: Teacher

1. Teacher Dashboard:

After entering the correct details(email,password and role) in the common login page user will redirected to the teacher dashboard.

Student DBMS Home Admin Teacher Student Career

Search Search

Login

Please fill in this form to Login

Email
teacher@test.com

Password
.....

Role
Teacher

Login

[Forgot Your Password?? ...click here](#)

Student DBMS Home Admin Teacher Student Career

Search Search

Welcome teacher !! Have a nice day. [Logout](#) [Update Password](#) [Upload Image](#) [Issue a Notice](#)

Registration Details

Qualification	Experience	Joining Date	Address	City	State	Pincode
M.Tech	12 years	2021-10-30	Behind Sanjeevani Hospital,Yogpur,kankarbagh,patna-20	Patna	Bihar	800020

Students Under Guidance

Name	Email	Phone	Batch	Personal Mentor	Action
Shankar Singh	rajnish17100042@gmail.com	8863939768	target	teacher	Edit Delete Add
student	student@test.com	+918863939768	Pre-foundation	teacher	Edit Delete Add

teacher@test.com
123456789

*** On the leftmost side of dashboard profile picture, email and phone number of user is displayed.

*** On the right side user registration details and the details of students whose personal mentor is the current user(teacher) is displayed.

***** Teacher Dashboard contains:**

- a. **Logout** (on clicking user will be logged out and redirected to common login page)
- b. **Update Password** (user can update it's own password)
- c. **Upload Image** (teacher will choose a profile picture which will be displayed on the dashboard)
- d. **Issue a Notice** (link to Issue a notice)

Note: All these four features are almost similar to the above discussed.

Section D: Student

1.Student Dashboard:

After entering the correct details in the common login page user will be redirected to student dashboard.

Student DBMS Home Admin Teacher Student Career

Search Search

Login

Please fill in this form to Login

Email
student@test.com

Password
.....

Role
student

Login

Forgot Your Password?? ...click here

Student DBMS Home Admin Teacher Student Career

Search Search

Welcome student !! Have a nice day. [Logout](#) [Update Password](#) [Upload Image](#)

Registration Details

Batch	Personal Mentor	Admission Date	Address	City	State	Pincode
Pre-foundation	teacher	2021-10-29	Behind Sanjeevani Hospital,Yogpur,kankarbagh,patna-20	Patna	Bihar	800020

student@test.com
+918863939768

*** On the leftmost side of dashboard profile picture, email and phone number of user is displayed.

*** On the right side user registration details are displayed.

*** features for student:

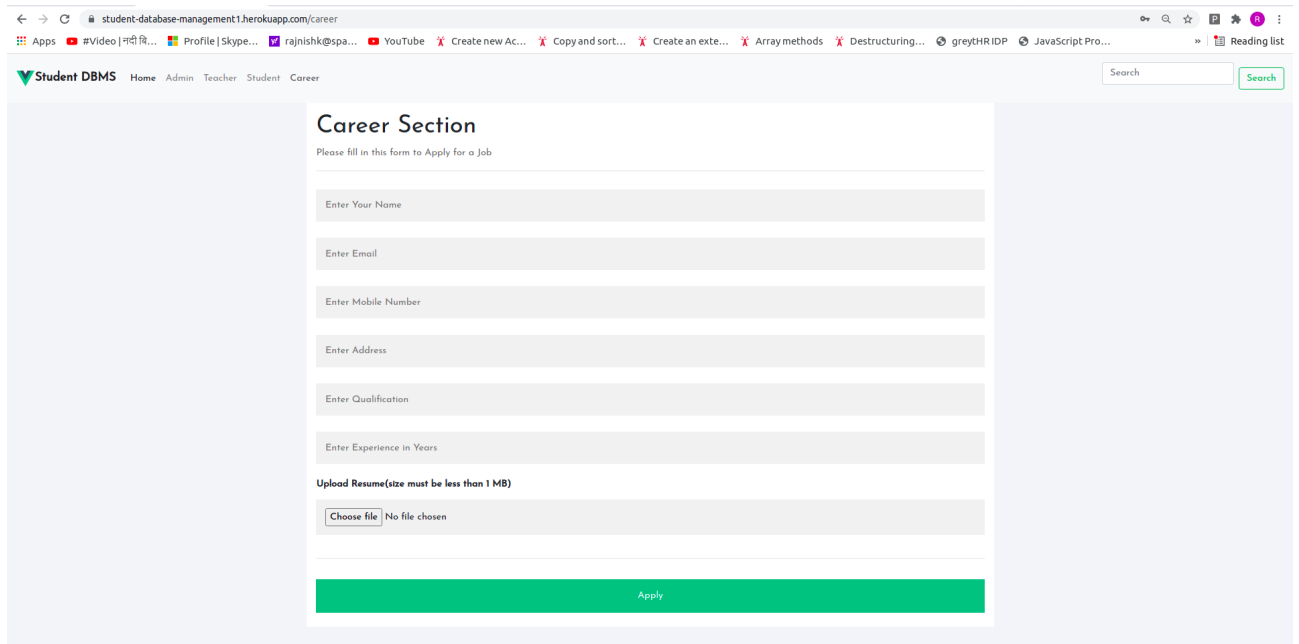
a. Logout

b. Update Password and c. Upload Image

Section E: Career

1. Career Page:

One can apply for the job with the help of career link.



The screenshot shows a web browser window with the URL `student-database-management1.herokuapp.com/career`. The page title is "Student DBMS" and the navigation menu includes "Home", "Admin", "Teacher", "Student", and "Career". A search bar is located in the top right corner. The main content area is titled "Career Section" and contains the instruction "Please fill in this form to Apply for a Job". The form consists of several input fields: "Enter Your Name", "Enter Email", "Enter Mobile Number", "Enter Address", "Enter Qualification", and "Enter Experience in Years". Below these fields is a section for "Upload Resume(size must be less than 1 MB)" with a "Choose file" button and the text "No file chosen". At the bottom of the form is a large green "Apply" button.

*** This page can be accessed by anyone.

*** After applying for the job an email will be sent to applicant saying that your resume under review.

Section F: Application Requirements

Requirements:

- 1.The app should have a login functionality.
- 2.The application should have three roles, viz. Student, Teacher, and Administrator(hereby referred as admin)
- 3.The student should only be able to view and edit only his/her respective data and not any other's data.
- 4.The teacher should only be able to view and edit only his/her respective data and not any other's data.
- 5.Students will be assigned to a particular teacher
- 6.A teacher can add, edit, view, delete students only under his/her supervision
- 7.A system admin will have the ability to add, update, block, and delete any student and teacher.
- 8.Any student should not be able to edit/view the teacher's data.
- 9.Any student should not be able to edit/view the admin's data.
- 10.Any teacher should not be able to edit/view the admin's data.
- 11.The app should also maintain who last edited the student's record.
12. After registration is done by the admin, password of the registered user should be sent on registered email.
- 13.Implement notice feature for teacher and Admin to announce certain things.
14. Also give facility to issue notice for teachers group, student group and common group.
15. Email notice to all members
16. Add feature to upload profile photo.
- 17.Add feature to upload teacher resume.
18. Add feature for forget password using otp in mail or on mobile number
- 19.On Home page add registration page for student to apply for admission.
20. Add career section on Home page where teachers can apply for job

Section G: Tools and Technologies

1. Client Side technology: **VUEJS**
2. Server Side Technology: **NodeJs and ExpressJs**
3. Database: **MYSQL Database**
4. Password Hashing: **BCRYPT**
5. Authentication: **JSON WEB TOKEN**
6. Deployment: **Heroku**
7. File Storage: **Amazon S3**
8. Code Editor: **VSCODE**
9. Remote Database connection: **JawsDB MYSQL(Heroku Add-ons) and MYSQL Workbench**
10. Version control: **GiT HUB**
11. Application Deployment link:
<https://student-database-management1.herokuapp.com/>
12. Project Code Link: <https://github.com/rajnish17100042/student-dbms>

Section H: References

1. vueJS tutorials:

<https://www.youtube.com/watch?v=EBEU7t35rNg&list=PL8p2I9GklV44m5tFH-zjCmTiHeq9GZrby&index=19>

2 Nodejs Tutorial:

https://www.youtube.com/watch?v=SY-NEr_bpEs&list=PLwGdqUZWnOp3t3qT7pvAznwUDzKbhEcCc&index=40

3. Basic designing of the app:

https://www.youtube.com/watch?v=30iSu-R_uSA

4. Jwt authentication:

<https://www.youtube.com/watch?v=x5gLL8-M9Fo&t=89s>

<https://www.youtube.com/watch?v=7nafaH9SddU&t=578s>

5. Javascript concepts:

<https://javascript.info/>

6. vueJS CRUD app:

<https://www.youtube.com/watch?v=JLc-hWsPTUY>

7. Frontend design,styling and SQL tutorial:

<https://www.w3schools.com/>

8. npm package manager :

<https://www.npmjs.com/package/nodemailer>

9. Email sending feature:

<https://www.youtube.com/watch?v=nF9g1825mwk>

10. forget password feature implementation:

<https://www.youtube.com/watch?v=72JYhSoVYPc>

11. file uploading in vuejs:

<https://www.youtube.com/watch?v=VqnJwh6E9ak>

12. file uploading using multer(server side):

<https://www.youtube.com/watch?v=9Qzmri1WaaE>

13. uploading file to Amazon S3:

https://www.youtube.com/watch?v=NZEIlg91l_ms

<https://www.youtube.com/watch?v=yGYeYJpRWPM>

<https://www.youtube.com/watch?v=VpOPX8K2Yjg>

14. Advanced mailing system using Gmail API:

<https://www.youtube.com/watch?v=-rcRf7yswfM>

15. reactjs nodejs deployment to heroku:

[https://www.youtube.com/watch?](https://www.youtube.com/watch?v=7il2CrBA5VY&list=PLwGdqUZWnOp3t3qT7pvAznwUDzKbhEcCc&index=44)

[v=7il2CrBA5VY&list=PLwGdqUZWnOp3t3qT7pvAznwUDzKbhEcCc&index=44](https://www.youtube.com/watch?v=7il2CrBA5VY&list=PLwGdqUZWnOp3t3qT7pvAznwUDzKbhEcCc&index=44)

<https://www.youtube.com/watch?v=71wSzpLyW9k>

16.vueJs deployment to heroku:

<https://www.youtube.com/watch?v=y0Vnl6UswyA>

<https://www.youtube.com/watch?v=W-b9KGwVECs&t=610s>

17. nodejs,mysql,ejs deployment to heroku:

<https://www.youtube.com/watch?v=ZZp0VljTsbM>