## JSS Science And Technology University





# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

#### REPORT FOR THE DBMS PROJECT

Title of the project: Hostel Grievance Management System Under the guidance of Prof. Tejaswini M

Project batch no: F1

**Project Team:** 

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Signature of guide Signature of HOD

(Prof. Tejaswini M) (Dr. Mahanand BS)

JSS Technical Institutions Campus, Mysuru - 570 006, Karnataka, India.









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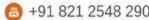
**Problem Statement:** To build a website which facilitates easy grievance registration and solution of the hostel of different colleges.

#### Aim of the Project:

This Project is aimed at automating the tedious manual grievance management system of the hostel. It eliminates the contact between hostel students and the administration. It helps to register and resolve grievances online via our portal

## **Objectives:**

- This website will ease the grievance registration and resolution process by automating it.
- Help students to report their grievances online without manually entering it in the register.
- Helps the admin to access the grievances details and resolve them and also read the grievance description.
- Have a real time updation of the grievance status in the student portal.







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## **Existing System:**

Current system is as follows-

Student goes physically to the office and registers complaint in the register.

The admin checks the register for grievance which is slow and inefficient.

The admin sends a hostel employee to complete the work

The admin then strikes off the grievance from the register.

The employee completes the work and reports to admin

The student cannot check the status of his grievance if he is outside the hostel.

## **Proposed System:**

The student can login and register his complaint online without going to the office.

The admin will be able to view the grievance and resolve it.

Student can report multiple Grievances at once.

Entries of Grievances will be stored in the table even if the admin resolves it since it works on a flag variable called G\_status.

There is minimal contact between student and hostel office









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# **Technology Used**

- 1. HTML, CS S, BOOTSTRAP, EMBEDDED JAVASCRIPT-**FRONTEND**
- 2. NODE JS BACKEND
- 3. CLEVER CLOUD MYSQL INSTANCE DATABASE
- 3. EXPRESS JS, BODY PARSER, BYCRPT PASSWORD **ENCRYTION, NODEMON - LIBRARIES**

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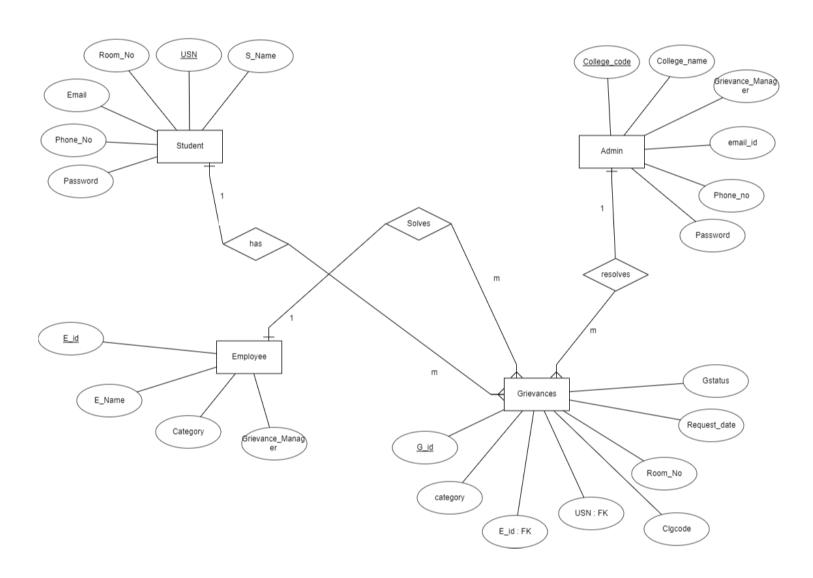


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## **ER Diagram:**



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# **Our Hostel Grievance Management System contains the** following tables:

#### Admin:

College_code	College_name	Grievance_Manager	email_id	Phone_no	Password
123123	SJCEmysore	DRPmallu	DRPmallu@g	858585	\$2b\$05\$u97XPUkcOMnbSosQYJq/m.lgifpFC7bfYQuOALtw4Sp
19	Sjce	DrpMallu	b@d.com	+918191926434	\$2b\$05\$uL1fKNNhHMTxQesP6YvqM.Jcmanvffx1VE2FyUyaYMr

## Employee:

E_id	E_Name	Category	Grievance_Manager
1	Mahesh	Electric	DRPMallu
2	Rajesh	wifi	DRPMallu
3	Suresh	carpenter	DRPMallu
4	puneet	others	DRPMallu









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#### Grievance:

G_id	category	E_id	USN	Room_No	Request_date	Gstatus	message	Clgcode
66L404	Others	4	01jst	L404	27/1/2022	1	hello	19
67L404	Electric	4	01jst	L404	27/1/2022	0	k	123123

#### Student:

USN	S_Name	Room_No	Email	Phone_No	Password
01jst	dummy	L404	dummy@g	1111111111	\$2b\$05\$ZVSM8SIHMNOCg4rT9IaIYuI3tVu15JwMocP3kPCDT6V
01jst19	Mohit	M32	m@g	749749	\$2b\$05\$YIRJD1bWJfev2Av7XbrfoO/2BBHc2GvpBavF8E1G/s/
01jstdummy2	dummy2	M99	dummy2@g	85858585	\$2b\$05\$kH5z2gQh740ncfi2OSpEkOVZFL2VK4/OHDNU91JZytu











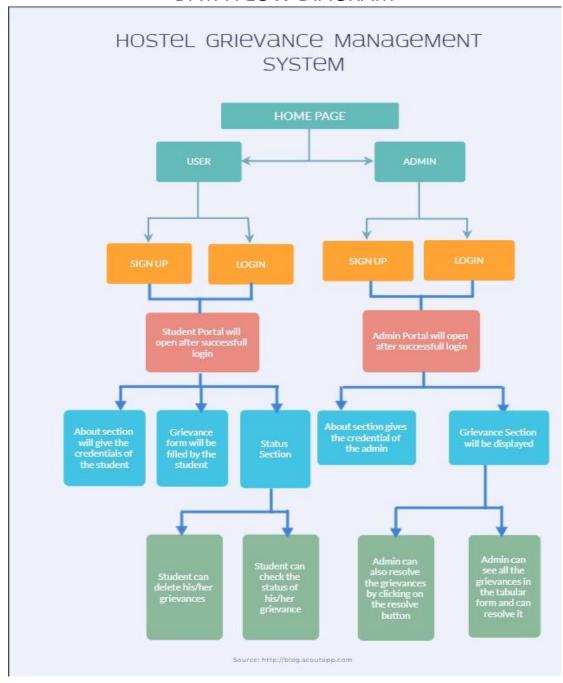


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#### DATA FLOW DIAGRAM



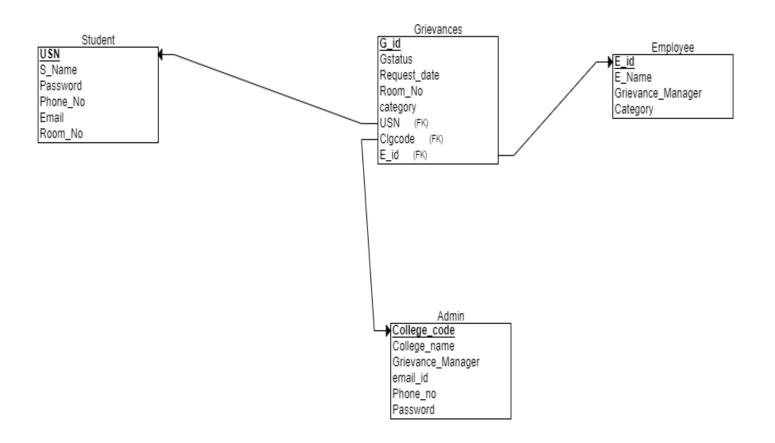
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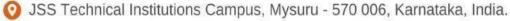
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## **RELATIONAL SCHEMA**















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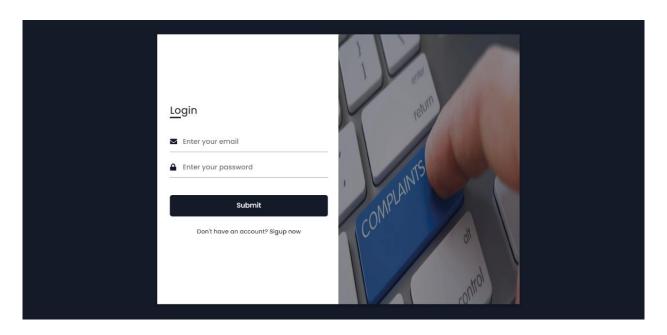
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# Home Page

Welcome to Hostel Grievance Management System
You Are?  User Admin

## Student Login



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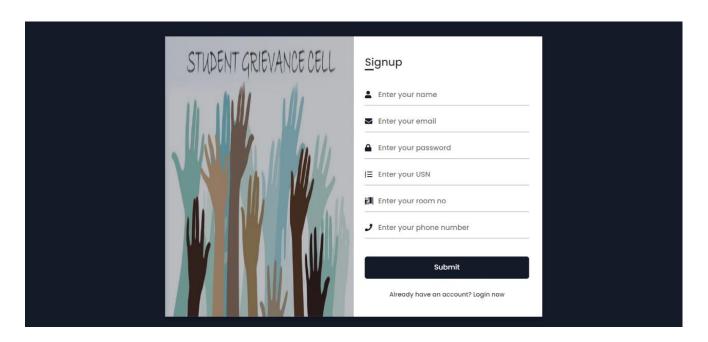




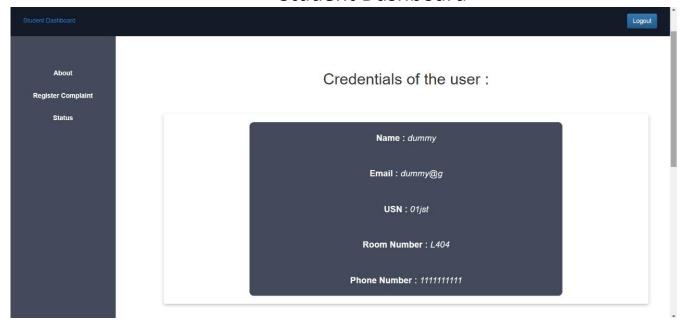
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# Student Signup



#### Student Dashboard

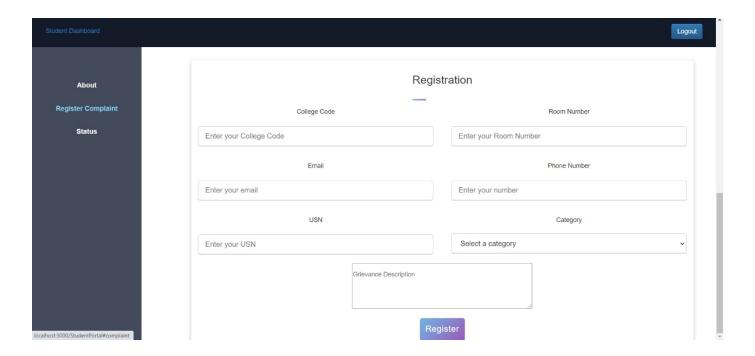


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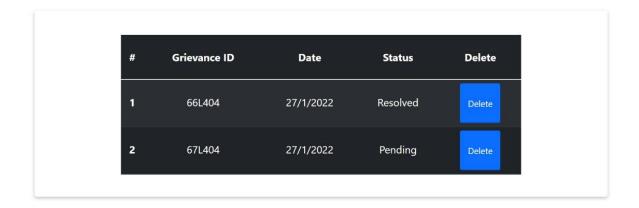


## Student Grievance Registration Form



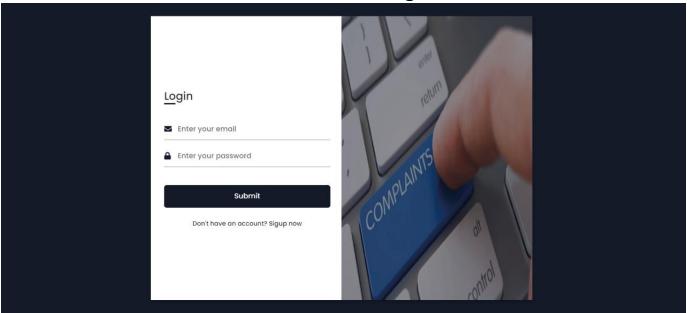
# Status of student's grievances

Status of the Grievances

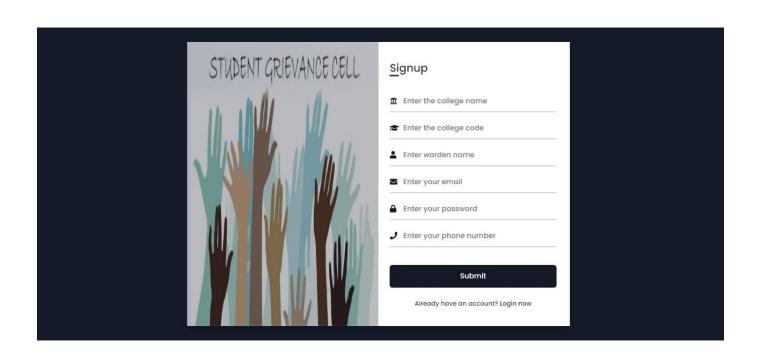


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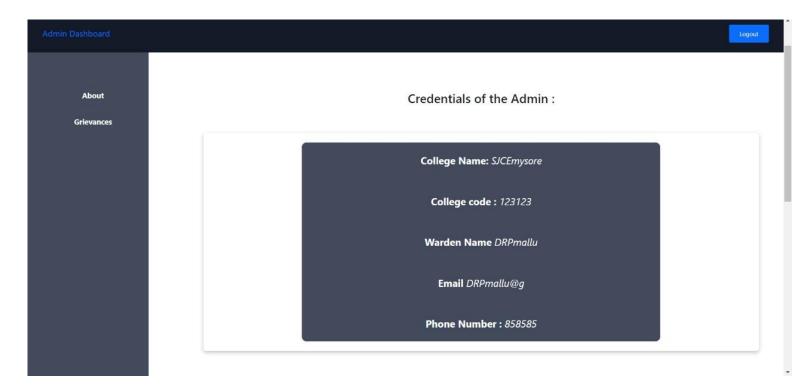
# Admin Login



Admin Signup



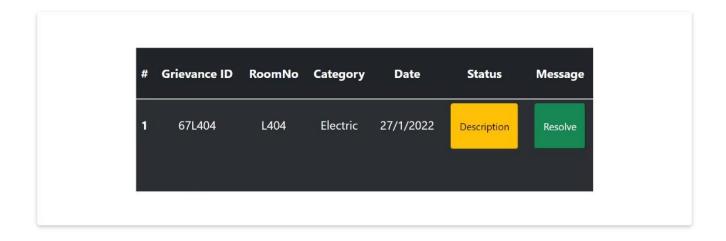
# **Admin Credentials**



## **Grievances Button**



#### Total Grievances



# **Set of Operations**

#### STUDENT SECTION

1.Insertion of credentials into student table

```
var sql1=`INSERT INTO student VALUES ('${usn}','${name}','${room}','${email}','${phone}','${hash}')`;
```

2. Selection of student credentials from student table

3.Insertion of grievance into grievance table

```
var sql1=`INSERT INTO Grievances VALUES ('${G_id +room}','${cate}','${emp_id}','${usn}','${room}','${date}','${status}','${message}','${Ccode}')`;
```

4. Selection of grievances from grievance table

```
var sql_status="Select * from Grievances where USN=?";
```

5. Deletion of grievances from grievance table using G\_id

```
var sql_status="Delete from Grievances where G_id=?";
```

## **ADMIN SECTION**

1.Insertion of credentials into admin table

```
var sql1=`INSERT INTO Admin VALUES ('${code}','${cname}','${wname}','${email}','${phone}','${hash}')`;
```

2. Selection of credentials from admin table

```
var sql1="SELECT email_id, Password FROM Admin WHERE email_id='"+Email+"'";
db.query(sql1,function(err,result){
   if(!result.length){
      Amessage="Wrong Credentials";
      res.redirect("/AdminLoginSignup");
   }
   else{
      var hash= result[0].Password;
      console.log(hash);
      bcrypt.compare(pass, hash, function(err, result) {
        if(result==true){
            Amessage='';
            var sql2 = "SELECT * from Admin WHERE email_id='"+Email+"'";
      }
}
```

3. Displaying total grievances of a particular college from grievance table

```
var sql_grv= "SELECT * from Grievances where Gstatus=? and Clgcode=?";
```

4. Updation of grievance from grievance table

```
var sql_resolve= "UPDATE Grievances set Gstatus=? where G_id=?";
```

## **Scope for improvements:**

- Currently this project is not concerned about security that much so in future we can
  make this project more secure.
- We haven't focus on front end part much since it was the DBMS project so we were more focused in writing SQL queries. In future we will make this site more good looking.