





IT-652



# Internet and WebTechnology



@ GROUP - 18  
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# ACKNOWLEDGEMENT

OUR HEARTY THANKS TO RESPECTED DEPANWITA DAS MA'AM, NARAYAN SIR, ALL OTHER M.TECH AND PHD SCHOLARS WHO HELPED US THROUGHOUT THIS LEARNING PROCESS AND MADE IT FUN AND RESOURCEFUL.

# PAGE WISE OVERVIEW

# INTRODUCTION

Most colleges have Information portal for student so we made one for our college. Our project is a “Student Information Portal”, the broad idea of the website is to display information of students.

## MAIN FEATURES:

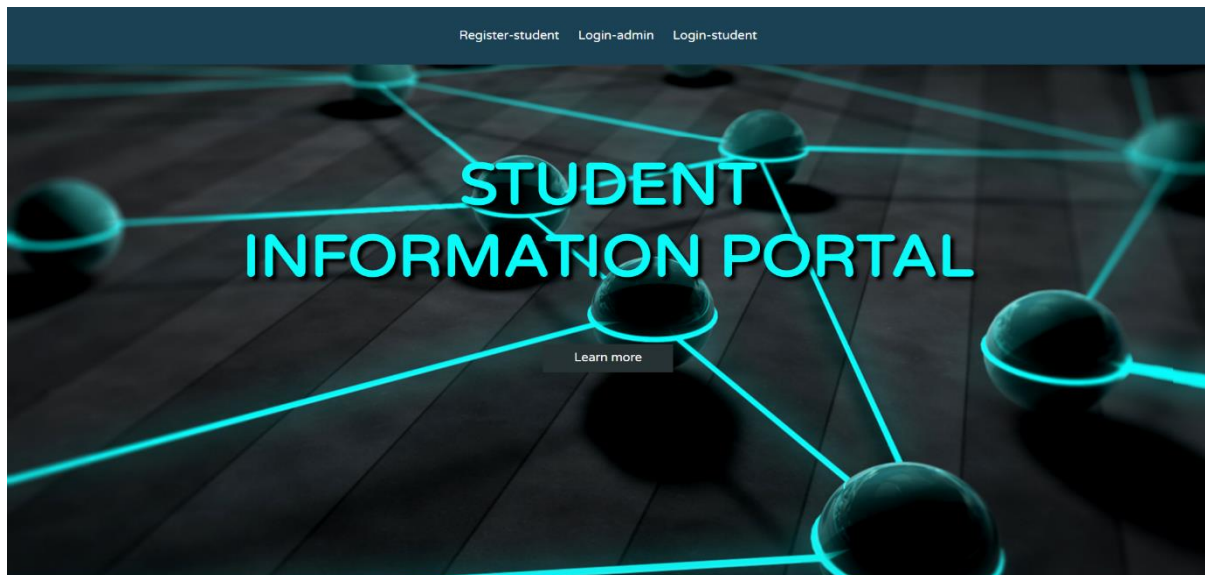
- ❖ User friendly and interactive UI
- ❖ Student Registration
- ❖ Admin and student Login
- ❖ A simple home page

## UNIQUE FEATURES:

- ❖ Password encryption using md5
- ❖ Multistep form to take details from users
- ❖ Thorough Validations in real time through JS
- ❖ Interlinked pages
- ❖ Sessions properly handled
- ❖ Each student account is activated only after admin's approval

## HOMEPAGE

The homepage consists of a navigation bar at the top which consists of four functions Student Login, Student Registration, Admin login. The page itself contains a Learn more button which links to our official college website [www.nitdgp.ac.in](http://www.nitdgp.ac.in)



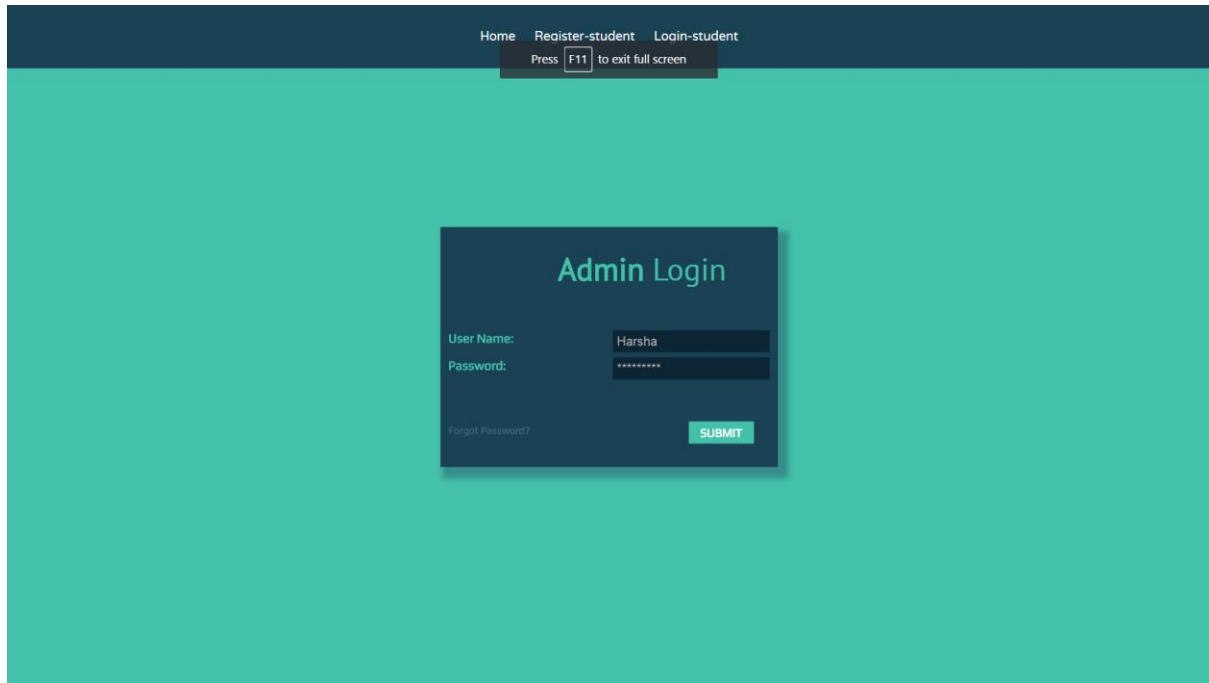
## STUDENT LOGIN

The Student-Login contains a top navigation bar and the page consists of a form for login through username and password where username is the email-id with all fields validated with JS. Also it has added stay signed in feature.

The image shows the Student Login page. At the top, there is a dark blue navigation bar with the links 'Home', 'Register-student', and 'Login-admin'. The main content area has a teal background. In the center, there is a dark blue login form titled 'Student Login'. The form contains the following fields and elements: 'E-mail Id:' with the value 'sriharshashm@gmail.com', 'Password:' with a masked password '\*\*\*\*\*', a 'Stay signed in' checkbox, a 'Forgot Password?' link, and a 'SUBMIT' button.

## ADMIN LOGIN

The Admin-Login contains a top navigation bar and the page consists of a form for login through username and password with all fields validated with JS



## STUDENT REGISTRATION

We didn't include Admin registration as admin never gets to register if he does then the security of the page will be compromised. The Student-Registration page contains a top navigation bar and a properly validated form asking for all the possible details broadly categorized into two parts personal and academic details.

### FEATURES

- The best part of the form is it is **multistep form** where you can **reset** and if you want you can go to the **next** or **previous** step accordingly.
- Some extra features like automatic age calculation on given DOB.
- Calendar for entering DOB.
- Auto entry of roll no. on entering Department.

## 1. Personal Details

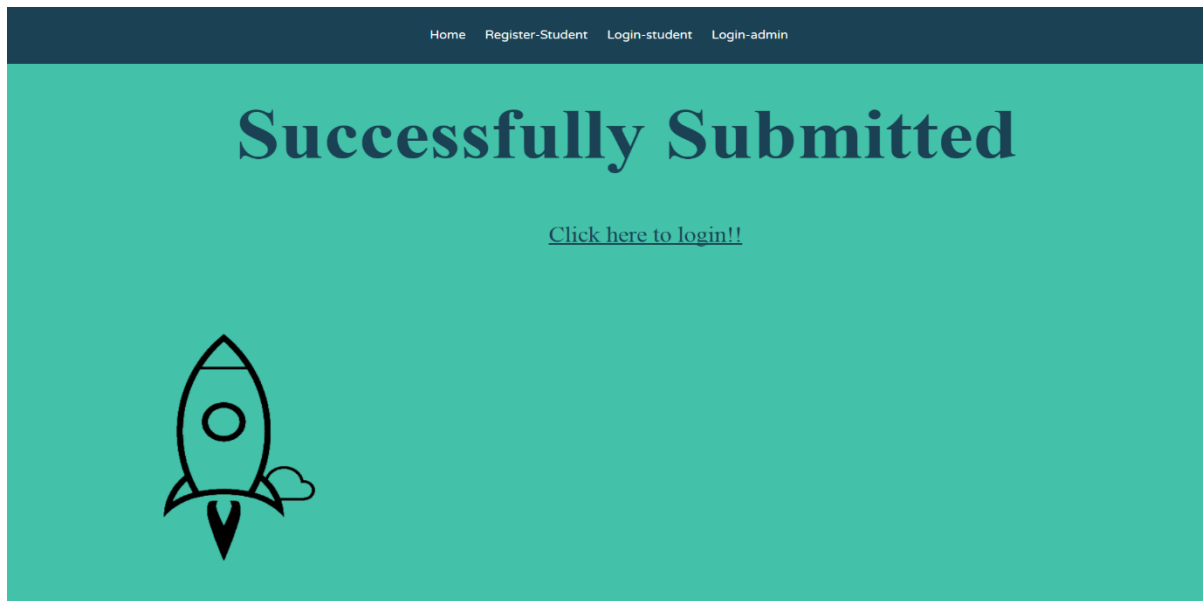
Name:	<input type="text" value="Your Name"/>
Date of Birth:	<input type="text" value="dd-mm-yyyy"/>
Gender:	<input checked="" type="radio"/> Male <input type="radio"/> Female
Age	<input type="text"/>
E-mail Id:	<input type="text" value="sriharshashm@gmail.com"/>
Password:	<input type="password" value="*****"/>
Retype-Password:	<input type="password" value="*****"/>
Contact No:	<input type="text" value="7076XXXXXX"/>
Upload image:	<input type="button" value="Choose File"/> <input type="button" value="No files chosen"/>
Hobbies:	<input checked="" type="checkbox"/> Cricket <input type="checkbox"/> Music
Address:	<input type="text" value="Room-445, Hall-1, NIT,Durgapur"/>
<input type="button" value="Reset"/> <input type="button" value="Next"/>	

## 2. Academic Details

10th Board:	<input type="text" value="Your Board"/>
Year of passing:	<input type="text" value="Select Year"/>
Tenth Marks (in %):	<input type="text" value="10th marks"/>
12th Board:	<input type="text" value="Your Board"/>
Year of passing:	<input type="text" value="Select Year"/>
12th Marks (in %):	<input type="text" value="12th marks"/>
Degree:	<input checked="" type="radio"/> B.tech <input type="radio"/> M.tech
Branch:	<input type="text" value="Your Branch"/>
Roll No:	<input type="text"/>
CGPA:	<input type="text" value="Your CGPA (till date)"/>
Remarks:	<input type="text" value="Please provide remarks (if any)"/>
<input type="button" value="Previous"/> <input type="button" value="SIGN UP"/>	

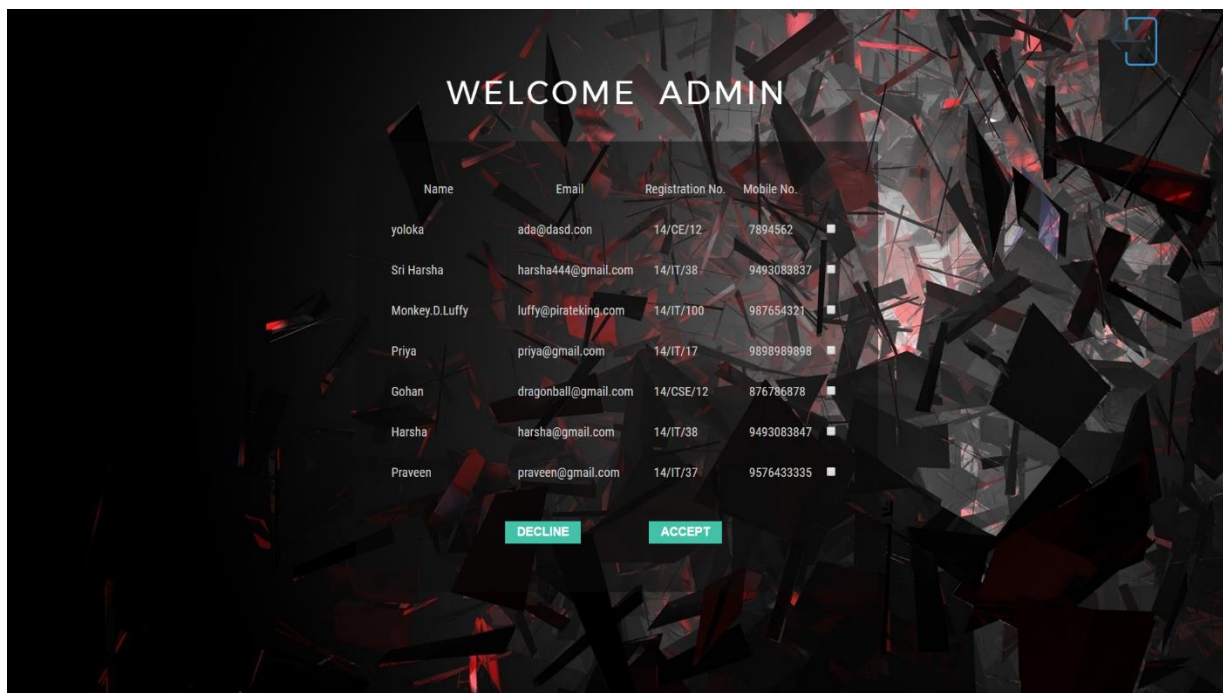


On successful submission the user is directed to a successful submission page which contains a link to login and navigation bar on top and yes a little animation to add up some effect.



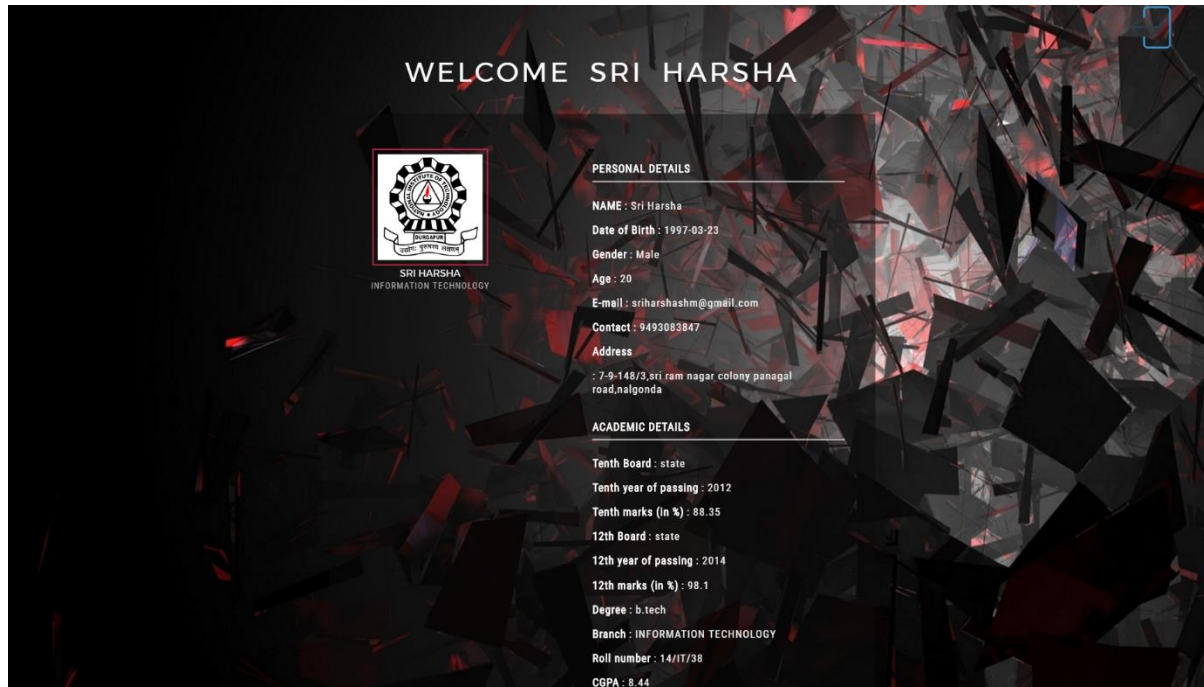
## ADMIN PAGE

The page contains list of new student registrations and the admin is required to accept or decline the registrations. There is also a logout button on the top right corner.



## STUDENT PROFILE PAGE

The student profile page contains all the details the student entered during registration and also a log out button on top right corner.



## VALIDATIONS

- ✓ Validation is done in all the forms using JS
- ✓ Every field undergoes thorough validation
- ✓ Line – by – Line Validation is done

### VALIDATION FOR STUDENT REGISTRATION

- Every field undergoes **line by line validation**.
- Used specific **Regex** for particular fields.
- Range specified validation for fields like marks, date of birth.

```

function name_out(){
    var x = document.forms["student_signup_form"]["username"].value;
    var x_len=x.length;
    //var regex=/^[0-9]+$;/
    //var regex =/^[A-Za-z.-]+\s*[A-Za-z.-]*$/;
    var regex=/[1234567890!@#%&*]/;
    if (x.match(regex))
    {
        document.forms["student_signup_form"]["username"].style.border = "2px solid red";
        document.forms["student_signup_form"]["username"].value = "";
        document.forms["student_signup_form"]["username"].placeholder = "please enter a valid name";
        return false;
    }
    if (x == "") {
        document.forms["student_signup_form"]["username"].placeholder = "Please fill the name";
        document.forms["student_signup_form"]["username"].style.border = "2px solid red";
        return false;
    }

    if(x_len < 5 || x_len >20)
    {
        document.forms["student_signup_form"]["username"].style.border = "2px solid red";
        document.forms["student_signup_form"]["username"].value = "";
        document.forms["student_signup_form"]["username"].placeholder = "5-20 characters only!!";
        return false;
    }
}

function name_in(){
    var x = document.forms["student_signup_form"]["username"].value;
    if(x == "")
    {
        document.forms["student_signup_form"]["username"].style.backgroundColor = "#0D2635";
        document.forms["student_signup_form"]["username"].placeholder = "Your Name";
        document.forms["student_signup_form"]["username"].style.border = "none";
    }
}

```

```

function email_in(){
    var x = document.forms["student_signup_form"]["email"].value;
    if(x == "")
    {
        document.forms["student_signup_form"]["email"].style.backgroundColor = "#0D2635";
        document.forms["student_signup_form"]["email"].placeholder = "sriharshashm@gmail.com";
        document.forms["student_signup_form"]["email"].style.border = "none";
    }
}

function email_out(){
    var x = document.forms["student_signup_form"]["email"].value;
    var regex=/^((([<>\\[\\]\\.,;:\\s@"]+)(\\.[^<>\\[\\]\\.,;:\\s@"]+)*|"(.)")@(((\\[0-9]{1,3}\\.[0-9]{1,3}\\.[0-9]{1,3}\\.[0-9]{1,3})|(([a-zA-Z\\-0-9]+\\.)+[a-zA-Z]{2,})))$/;
    var x_bool= regex.test(x);
    //alert(x_bool);
    if(x_bool== false)
    {
        document.forms["student_signup_form"]["email"].value = "";
        document.forms["student_signup_form"]["email"].placeholder = "enter a valid email";
        document.forms["student_signup_form"]["email"].style.border = "2px solid red";
    }
    if(x=="")
    {
        document.forms["student_signup_form"]["email"].placeholder = "email can't be empty";
        document.forms["student_signup_form"]["email"].style.border = "2px solid red";
    }
    else return false;
}

```

## VALIDATION FOR LOGIN (BOTH ADMIN AND STUDENT)

- Every field undergoes **line by line validation**.
- Used specific **Regex** for Email in Student.

```
function pass_in(){
    var x = document.forms["student_login_form"]["password"].value;
    if(x == "")
    {
        document.forms["student_login_form"]["password"].style.backgroundColor = "#0D2635";
        document.forms["student_login_form"]["password"].placeholder = "*****";
        document.forms["student_login_form"]["password"].style.border = "none";
    }
}

function pass_out(){
    var x = document.forms["student_login_form"]["password"].value;
    if (x == "") {
        document.forms["student_login_form"]["password"].placeholder = "password must be filled";
        document.forms["student_login_form"]["password"].style.border = "2px solid red";
        return false;
    }
}
```

## SESSION HANDLING

- ✓ Sessions are basically done using the id's of user (primary key).
- ✓ User specific sessions are created.
- ✓ Session is destroyed when the user explicitly clicks logout or if browser window is closed.
- ✓ Once session is destroyed user have to login again.
- ✓ Sessions are created once the user enters all the credentials correctly and clicks the login button.
- ✓ Sessions are created using **session\_start()**
- ✓ Sessions are destroyed using **session\_destroy()** or setting the **session[id] = NULL**

## ADMIN FEATURES AND FUNCTIONS

- ✓ The main function of the Admin is to approve student registrations.
- ✓ Since we don't want to add new admin through the website we restrict the admin registration.
- ✓ But if required we can add new admin through database.

## USER FEATURES AND FUNCTIONS

The users get the following features and functions:

- ✓ New registration
- ✓ Interactive and user friendly UI
- ✓ View their profile
- ✓ Auto completion of age and roll no.

## CONCLUSION

It is a great opportunity to develop such a project from scratch which gives us hands on experience and better hold on web development. Indeed it was helpful and we did learn all new stuff and which gives us a broader picture about how websites really work with the front and backend linked together.