

Remote Internship Program | Web Development Report
On

STUDENT RESULT MANAGEMENT SYSTEM

Submitted By

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COMPANY PROFILE

e-Brain Softech Pvt. Ltd. Is a leading software development firm and training body, has been operational in Karnataka with a dedicated panel of experts from IT industry. We provide services on Management, Education technology and guidance to anyone looking on any areas of interest. We are a team of qualified, experienced trainers & IT Professionals motivated to educate people by training & nurturing them to the best of their strengths.

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About Domain.

Web development is the work involved in developing a website for the internet (World wide web) or an internet (a private network). Web development can range from developing a simple single static page of plain text to complex web-based internet application (web apps), electronic businesses, and social network services. A more comprehensive list of tasks to which web development commonly refers, may include web engineering, web design, web content development, client liaison, client-side/server-side scripting, web server and network security configuration.

Among web professionals, "web development" usually refers to the main non-design aspects of building websites: writing markup and coding Web development may use content management system (CMS) to make content changes easier and available with basic technical skills.

For larger organizations and businesses, web development teams can consist of hundreds of people (web developers) and follow standard methods like Agile methodologies while developing websites. Smaller organizations may only require a single permanent or contracting developer, or secondary assignment to related job positions such as a graphic designer or information systems technician. Web development may be a collaborative effort between departments rather than the domain of a designated department. There are three kinds of web developer specialization: front-end developer, back-end developer, and full-stack developer. Front-end developers are responsible for behavior and visuals that run in the user browser, while back-end developers deal with the server

What all things we learnt in the 4 weeks of internship

- INTRODUCTION
- STUDY PLAN
- OVERVIEW TO WEB TECHNOLOGIES

Node: Node is anything connected to a network.

Browser: which client uses to get access or request from server.

Internet: it is a globally-connected network of computers that enables people to share information and communicate with each other.

Intranet: an intranet on the other hand, is a local or restricted network that enables people to store, organize, and share information within an organization.

Extranet: An extranet is a private network that uses Internet technology and the public telecommunication system to securely share part of a business's information or operations with suppliers, vendors, partners, customers, or other businesses. An extranet can be viewed as part of a company's intranet that is extended to users outside the company.

Ethernet: is the most widely-installed local area network technology. An Ethernet LAN typically uses coaxial cable or special grades of twisted pairs wires. Ethernet is also used in wireless LANs.

LAN (local area network): interconnect computer in limited area.

WAN (wide area network): network that extends over large geographical area.

WEB DEVELOPMENT

- **Web page:** a hypertext document connected to the World Wide Web.
- **Web site:** A website is a collection of web pages and related content that is identified by a common domain name and published on at least one web server.
- **Web application:** A Web application (Web app) is an application program that is stored on a remote server and delivered over the Internet through a browser interface.

Technological stack

It is a combination of software products and programming languages used to create a web or mobile application. Applications have two software components: client-side and server-side, also known as front-end and back-end.

- Back-end technologies stack

The critical thing to understand about backend tech stack that it is all about the inner workings of an application. As such, the backend stack is required to operate smoothly, especially if your project has any features other than simple HTML-coded static pages. Structure-wise, the backend side consists of the following elements:

Programming languages (for example Python, PHP, JavaScript)
Frameworks (for example Ruby on Rails, Flask, Django, Swift or Objective-C)
Databases (for example, MongoDB and MySQL)
Server providers (Apache, Nginx, etc.)

➤ Front-end technology stack

The front end technology stack is what users see when they interact with the program. Therefore, the frontend stack's primary concern is convenient user experience, accessible user interface, and clear internal structures.

Usually, there are two significant elements in the frontend stack.

One of them (HTML) is responsible for the structuring and placement of the content. It covers the way content is organized and where it is positioned on the page in whatever case. It is the backbone.

The other element (CSS) is responsible for the representation of the content. It includes colors, fonts, background stuff, peculiarities of a layout, etc.

If you want to add some interactivity, use JavaScript. These things are controlled via libraries as React.js

SYSTEM ARCHITECTURE

A system architecture is the conceptual model that defines the structure, behavior, and more views of a system.

SDLC

SDLC is the Software Development Life Cycle. It is also called as Software Development Process. SDLC is a framework defining tasks performed at each step in the software development process.

5 Stages of SDLC:

- PLANNING
- ANALYSIS
- DESIGN
- IMPLEMENTATION
- MAINTENANCE

TCP/IP PROTOCOL: The Internet protocol suite is the conceptual model and set of communications protocols used in the Internet and similar computer networks. It is commonly known as TCP/IP because the foundational protocols in the suite are the Transmission Control Protocol and the Internet Protocol.

OSI MODEL: The Open Systems Interconnection model is a conceptual model that characterizes and standardises the communication functions of a telecommunication or computing system without regard to its underlying internal structure and technology.

HTML

Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

PHP

PHP is a popular general-purpose scripting language that is especially suited to web development

REACT JS

React is the frontend JavaScript library. Developed by Facebook.

About Project

Abstract

The main objective of this project is to provide results to the students in a simple way. The students can get results through the college/institution website through their roll numbers. . By analysing the result status and applying the standard calculation followed by the University the result are displayed with individual scores and the equivalent percentage. The system is intended for the student. The student can login through their login id and password to check their respective results. This can be achieved with web development technologies like HTML, CSS,REACT, PHP and using the database MySQL. The faculty can view the overall performance of the students in the semester examinations subject wise. The visualisation of the overall results according to the subject(The percentage of pass and fail in a particular subject) can be done using fusion charts.

Roles assigned to the different team members

Team Member	Role Assigned
Maresh N	1. Home Page 2. Login Page
Sanjay Kumar B M	1. Result Page 2. Admin login page
Subhash S S	1. Admin Page 2. Add page
Sushan Kumar	1. Update Page
Shreya M Jain	1.Delete Page

Requirement analysis

Functional Requirements

A functional specification (functional specifications document (FSD), functional requirements specification) in systems engineering and software development is a document that specifies the functions that a system or component must perform. A functional specification is the more technical response to a matching requirements document.

A functional specification does not define the inner workings of the proposed system; it does not include the specification of how the system function will be implemented. Instead, it focuses on what various outside agents (people using the program, computer peripherals, or other computers, for example) might "observe" when interacting with the system.

Functional requirement for includes:

- Keyboard Keys: for movement
- Mouse buttons: for rotating
- Other related functionality.

Non-Functional Requirements

In systems engineering and requirements engineering, a non-functional requirement (NFR) is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specific behaviors.

The application should produce the informative error messages, if any errors are found in the input program. It should use memory as less as possible, dynamic memory allocation is preferable to accomplish this task.

Software Requirements


Xampp, Sublime text, Browser.

Hardware Requirements

windows 10, min 1GB.

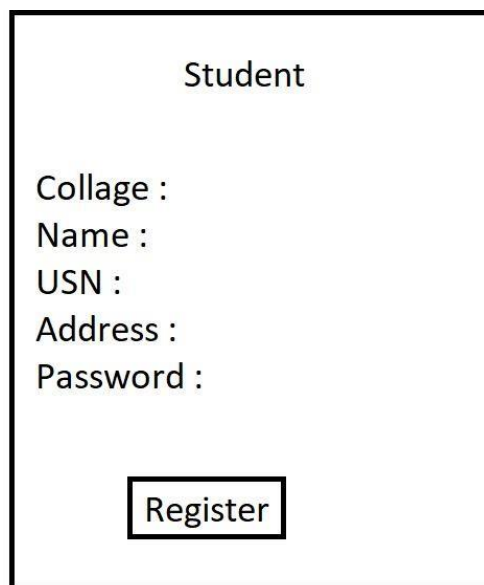
Design

1. Home Page.



A simple rectangular window with a title bar at the top containing three small square buttons (minimize, maximize, close). The main area of the window is empty except for a single rectangular button in the center with the text "Click here".

2. Student Registration page



A rectangular window with a title bar at the top containing the text "Student". Below the title bar, the following labels are listed vertically: "Collage :", "Name :", "USN :", "Address :", and "Password :". At the bottom of the window, there is a rectangular button with the text "Register".

3.Student Login page

Student

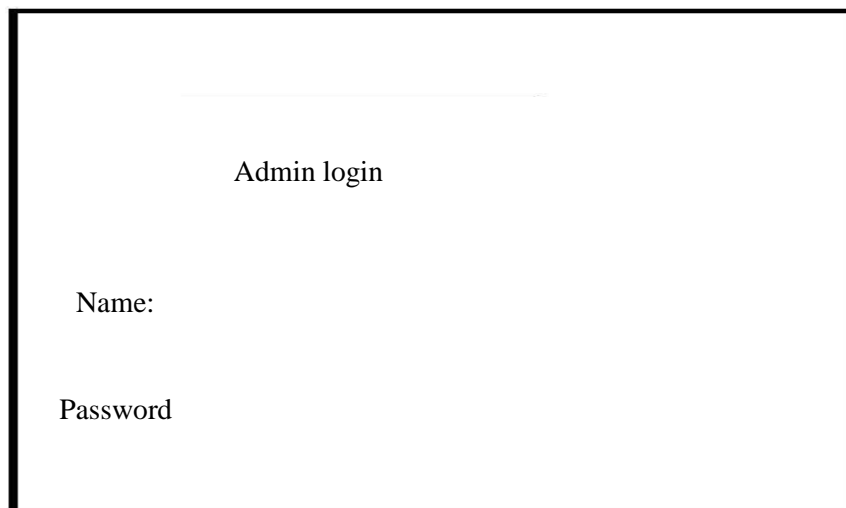
Username :

Password :

4.Result page

Result sheet

5.Admin login page



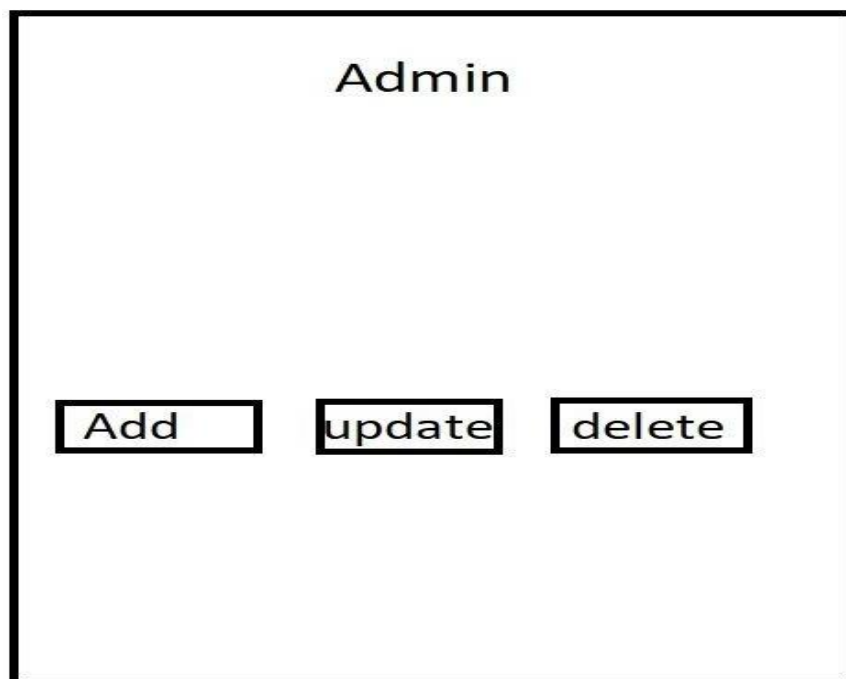
Admin login

Name:

Password

The design shows a rectangular box representing the login page. At the top center is the text 'Admin login'. Below it, on the left side, are the labels 'Name:' and 'Password' stacked vertically. There are no input fields or buttons shown in this design.

6.Admin page



Admin

Add update delete

The design shows a rectangular box representing the admin page. At the top center is the text 'Admin'. Below it, there are three buttons labeled 'Add', 'update', and 'delete' arranged horizontally. Each button is a simple rectangle with its text inside.

7.Add page

Insert

USN :

Add

7.Delete Page

Delete

USN :

Remove

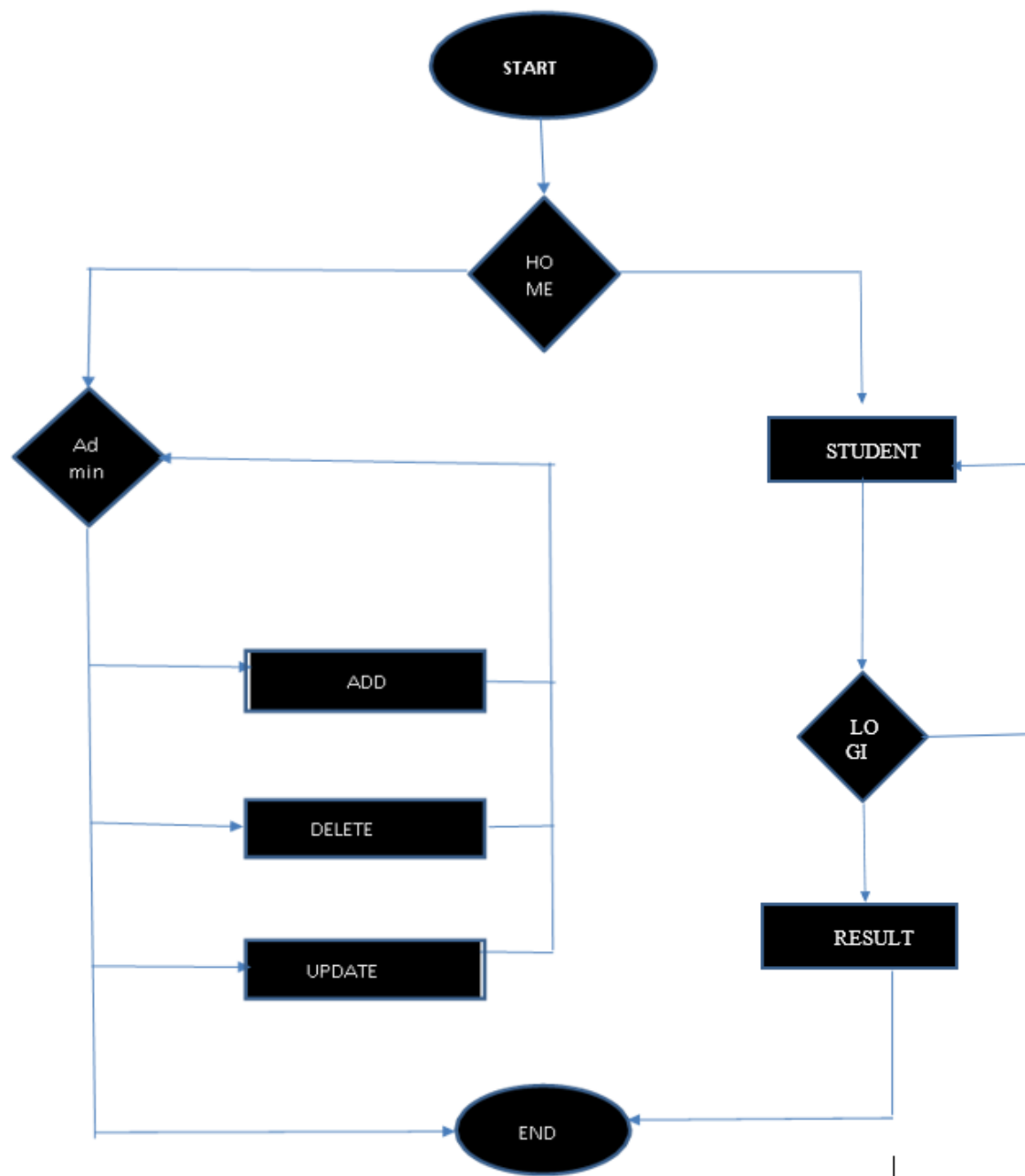
8.Update page

Update

USN :

Update

FLOW CHART



Pseudo code

Home Page:

- 1.Navbar1
- 2.Button

Login Page:

1. Navbar1
2. Form for the student.
3. Buttons to submit.

Result Page:

- 1.Navbar1
- 2.Text view

Admin login Page:

1. Navbar1.
2. Form for the admin username and password.
3. Buttons to submit.

Admin Page:

- 1.3 Buttons.

Add Page:

1. Form for add student.
2. Buttons to submit.

Update Page:

1. Form for update student.
2. Buttons to submit.

Delete Page:

1. Form for delete student.
2. Buttons to submit.

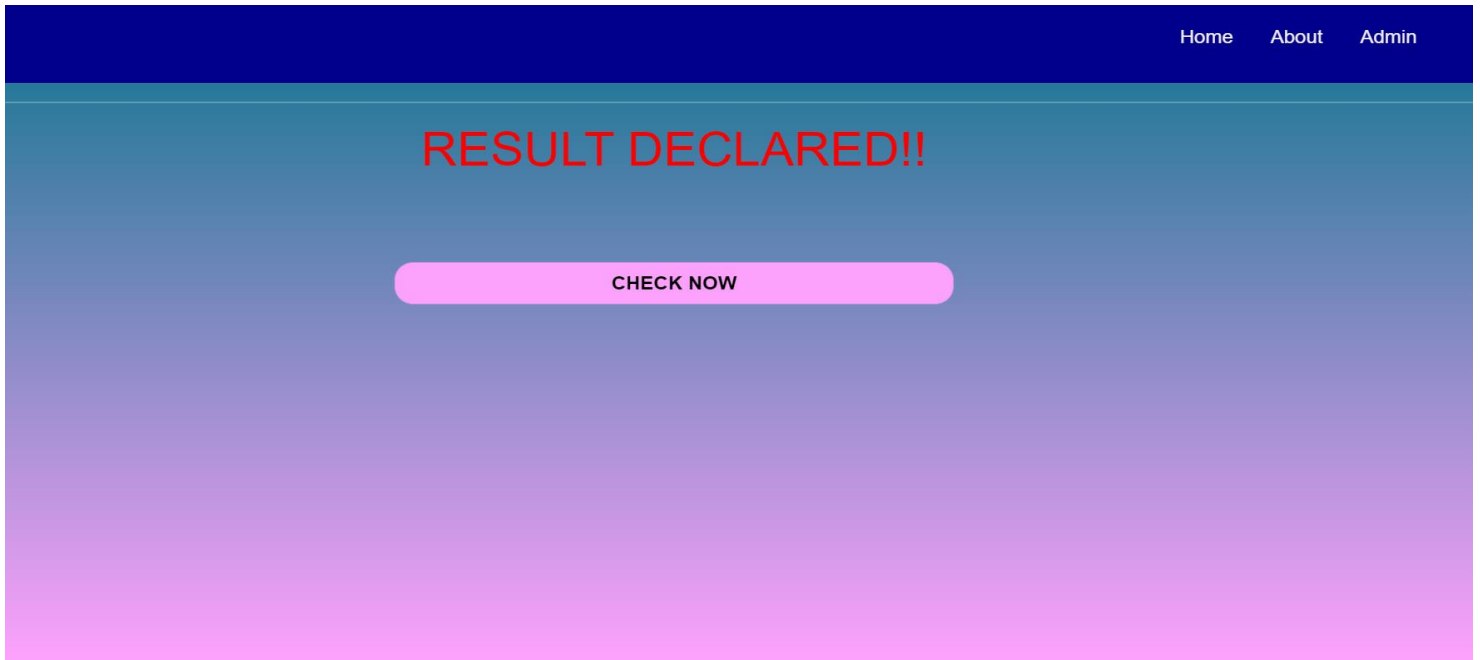
Implementation

Project Name:	Student Result Management System
Project Group Name:	Team Star Icons
Team Leader (Name, USN)	Mahesh N, 4SN18CS038
Team Member 1 (Name, USN)	Sanjay Kumar B M , 4SN19CS402
Team Member 2 (Name, USN)	Subhash S S, 4SU18IS043
Team Member 3 (Name, USN)	Sushan Kumar, 4SU18IS045
Team Member 4 (Name, USN)	Shreya M Jain, 4SU18IS040

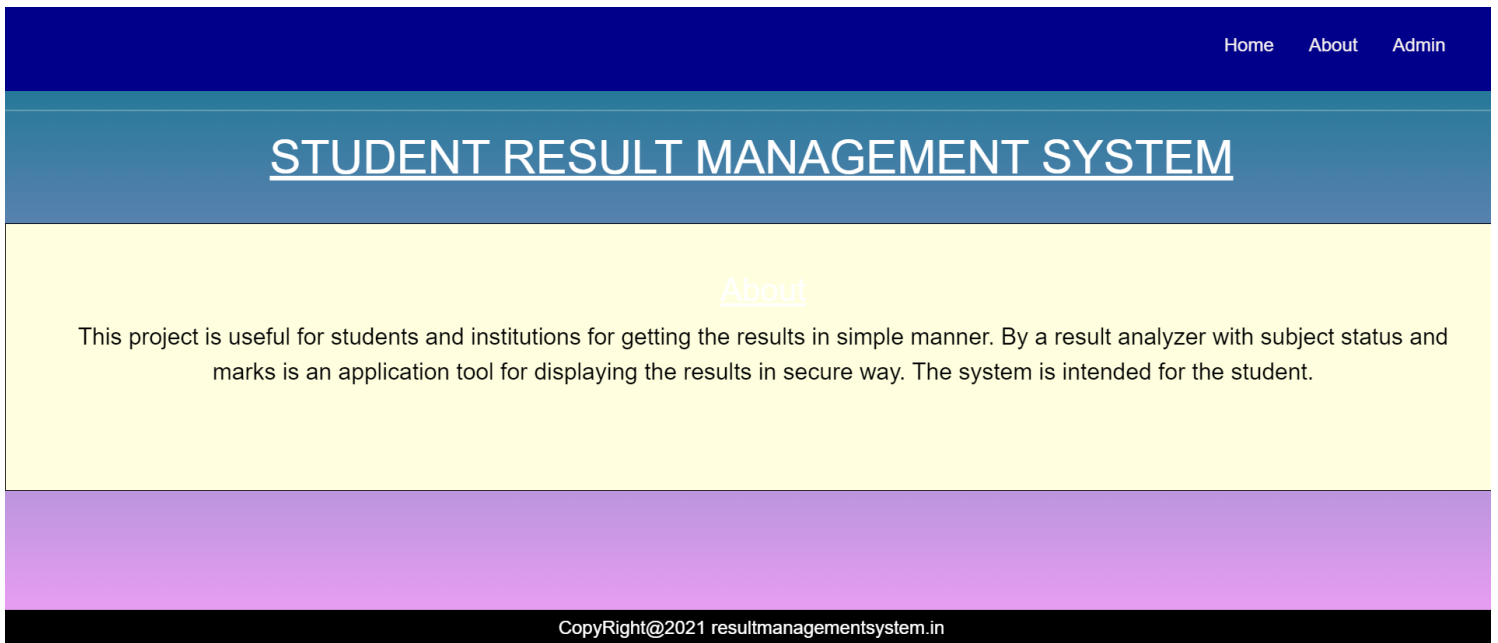
a) Frontend Pages Description

Page Name	Page Description	Team Member Name
1. Home.jsx 2. Login.jsx 3.Navbar.jsx	Home page. Login For user. Link pages.	Mahesh N
1. Result.jsx 2. Admin_login.jsx	Show result of user . Login for Admin.	Sanjay Kumar B M
1.Admin.jsx 2.Add.jsx	Admin Dashboard . Add student result.	Subhash S S
1.Update.jsx	Update Student result	Sushan Kumar
1.Delete.jsx	Delete Student	Shreya M Jain

Final Output



Home page(home.jsx)



About the project(about.jsx)

STUDENT REGISTRATION

USN

ENTER USN

NAME

ENTER NAME

EMAIL

ENTER EMAIL-ID

MOBILE NUMBER

ENTER VALID MOBILE NO.

Student registration page(S_registration.jsx)

STUDENT LOGIN

USN

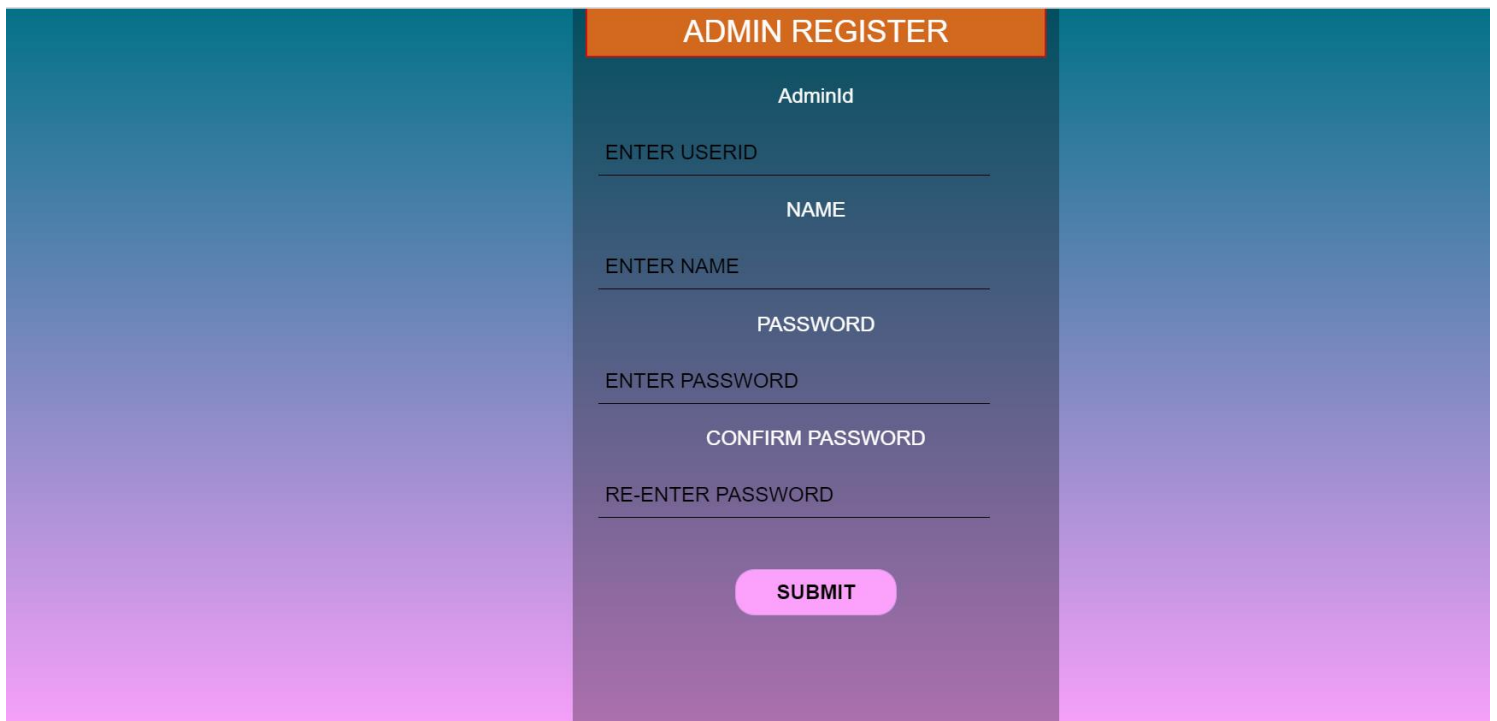
ENTER YOUR USN

NAME

ENTER YOUR NAME

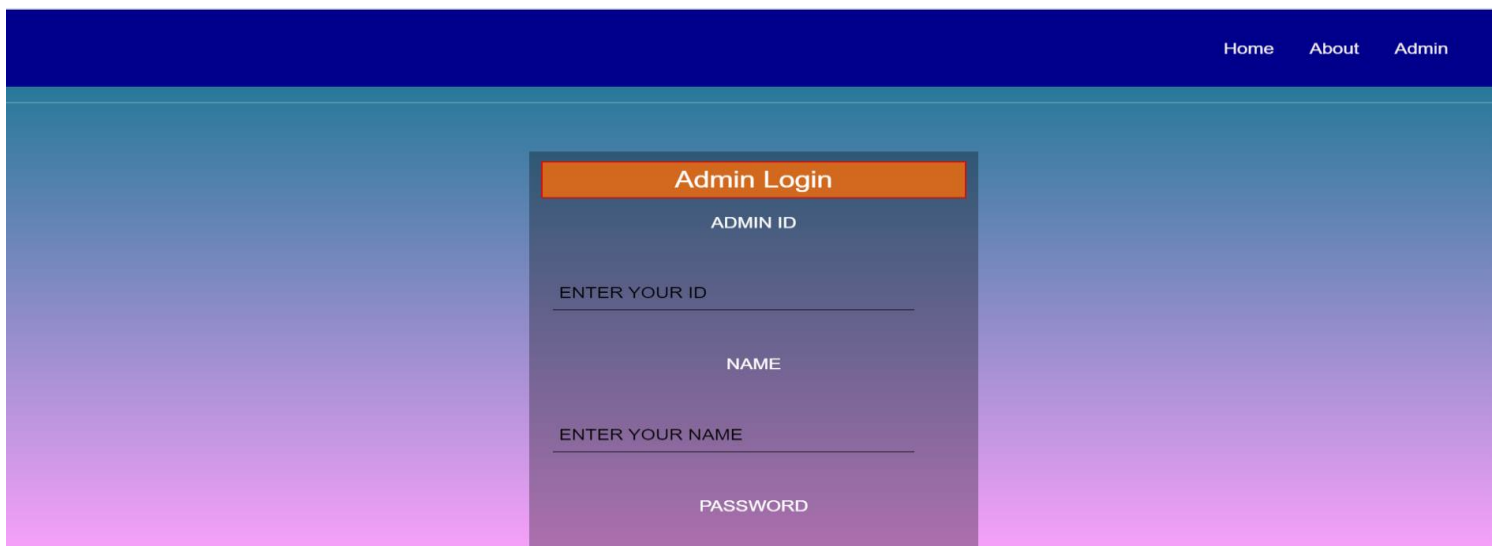
Submit

Student login page(slogin.jsx)



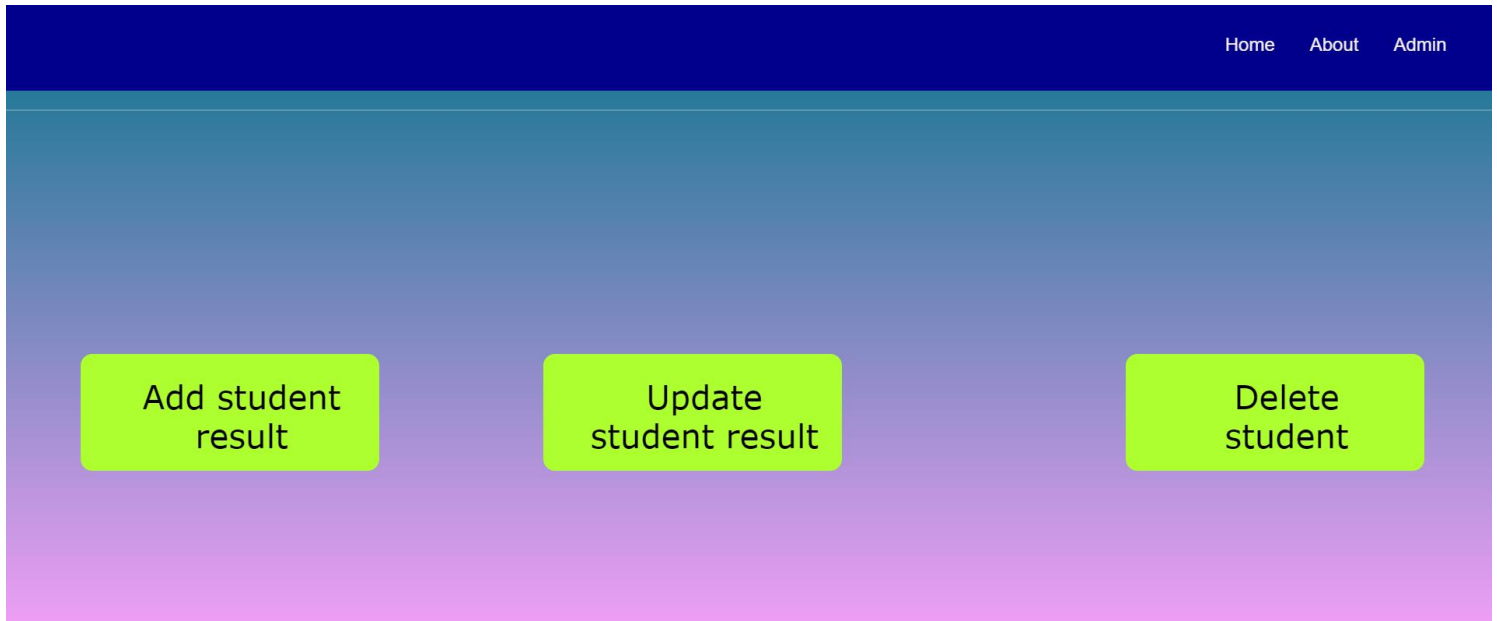
The image shows a web form titled "ADMIN REGISTER" in a blue header bar. The form is set against a background with a blue-to-purple gradient. It contains several input fields: "AdminId" (a text input), "ENTER USERID" (a text input), "NAME" (a text input), "ENTER NAME" (a text input), "PASSWORD" (a text input), "ENTER PASSWORD" (a text input), "CONFIRM PASSWORD" (a text input), and "RE-ENTER PASSWORD" (a text input). At the bottom of the form is a red "SUBMIT" button.

Admin registration page (adminregister.jsx)

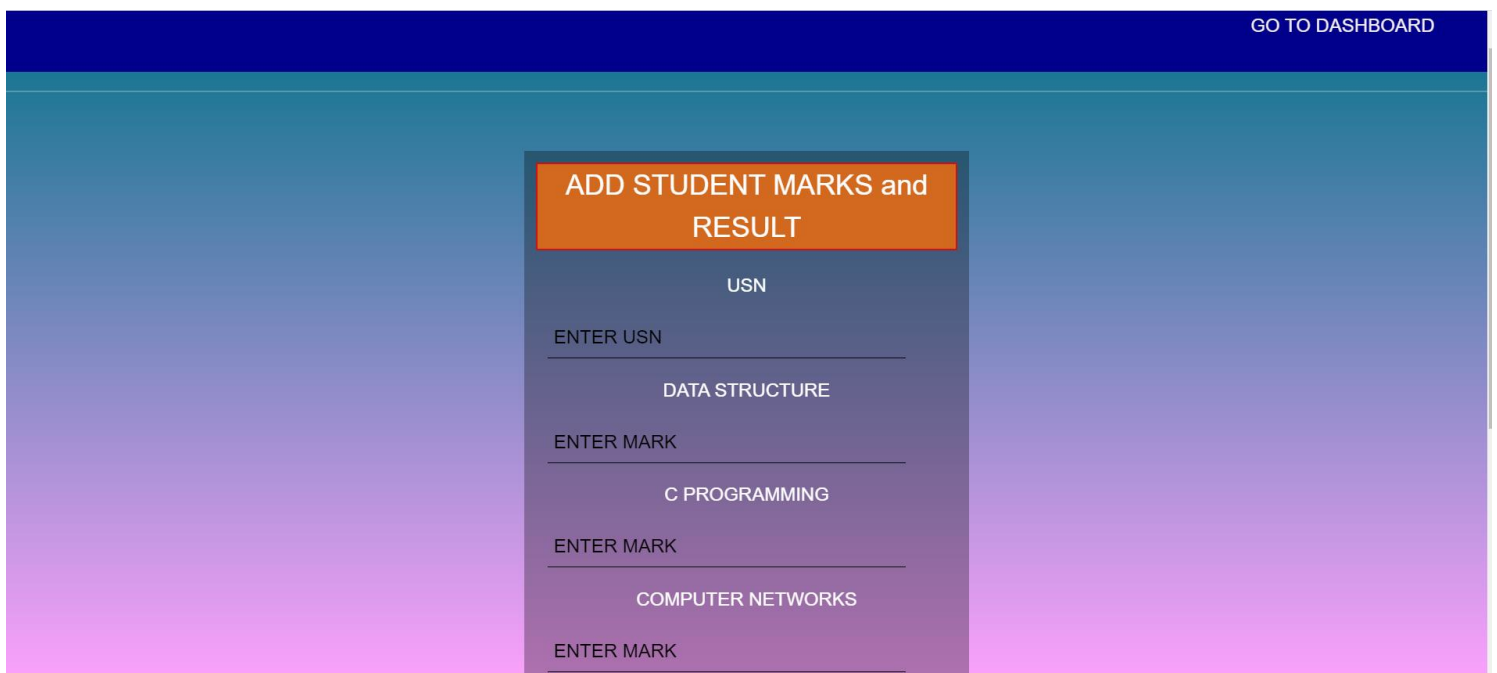


The image shows a web form titled "Admin Login" in a blue header bar. The form is set against a background with a blue-to-purple gradient. It contains several input fields: "ADMIN ID" (a text input), "ENTER YOUR ID" (a text input), "NAME" (a text input), "ENTER YOUR NAME" (a text input), and "PASSWORD" (a text input). The form is centered on the page.

Admin login page (adminlogin.jsx)



Admin dashboard(adminpage.jsx)



Add student marks and results(adds.jsx)

The screenshot displays a web application interface. At the top, there is a dark blue header bar with a 'GO TO DASHBOARD' button on the right. The main content area has a light blue background with a central modal form. The modal has an orange title bar that reads 'UPDATE STUDENT MARKS and RESULT'. Below the title, the form is titled 'USN' and contains several input fields: 'ENTER USN', 'DATA STRUCTURE', 'ENTER MARK', 'C PROGRAMMING', 'ENTER MARK', 'COMPUTER NETWORKS', and 'ENTER MARK'. A browser address bar at the bottom left shows 'localhost:3000/apge'.

Update student result and marks(update.jsx)

The screenshot displays a web application interface. At the top, there is a dark blue header bar with a 'GO TO DASHBOARD' button on the right. The main content area has a light blue background with a central modal form. The modal has an orange title bar that reads 'DELETE STUDENT'. Below the title, the form is titled 'USN' and contains an input field labeled 'ENTER USN' and a pink 'DELETE' button.

Delete student (delete.js)