

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY

NOIDA - 128



DSW LAB PROJECT

B.Tech Learning Website

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1-PROBLEM STATEMENT AND SOLUTION APPROACH

Problem Statement: The problem that our project will solve is the learning issue faced by the students of B.Tech CSE and cannot learn all the complex topics due to which they lose marks in their exams. Our project will help all such students and make learning B.Tech subjects easier for them by providing them with many hacks, tips, visualizations, top content links etc.

The project will be helpful not only for the students who are trying to learn the topic by themselves but also for the teacher so that we can facilitate them and make it easier for the teacher so that they have to spend less time on a given difficult topic to teach. They can very easily use this project of ours and explain the different difficult topics that we have included to explain it to their respective students

Solution Approach: The way our team approached this problem was by thinking of the issues that we ourselves faced when we were trying to learn various difficult topics in our college journey and we also thought of any such issues that we will face later on. We wanted to provide hacks, tips, visualization and best content links to all B.Tech topics of all subjects in one place i.e. single website to study all the difficult things of B.Tech. We will be using HTML, CSS, JS, PHP & MySQL. We will be targeting the tougher to understand topics first and make them easier to understand and visualize for the students.

One more key feature that our team has thought of is that we will be keeping this complete system point based. Every topic, every subtopic, every video and every question will have some points associated with them based on their difficulty and whenever a student finishes they will be provided the points associated with that given topic or task. We have planned that at the end of the month the top 10 students with the highest points will be given access to some exclusive premium content.

2. MODULES AND CONSTRAINT DESCRIPTION

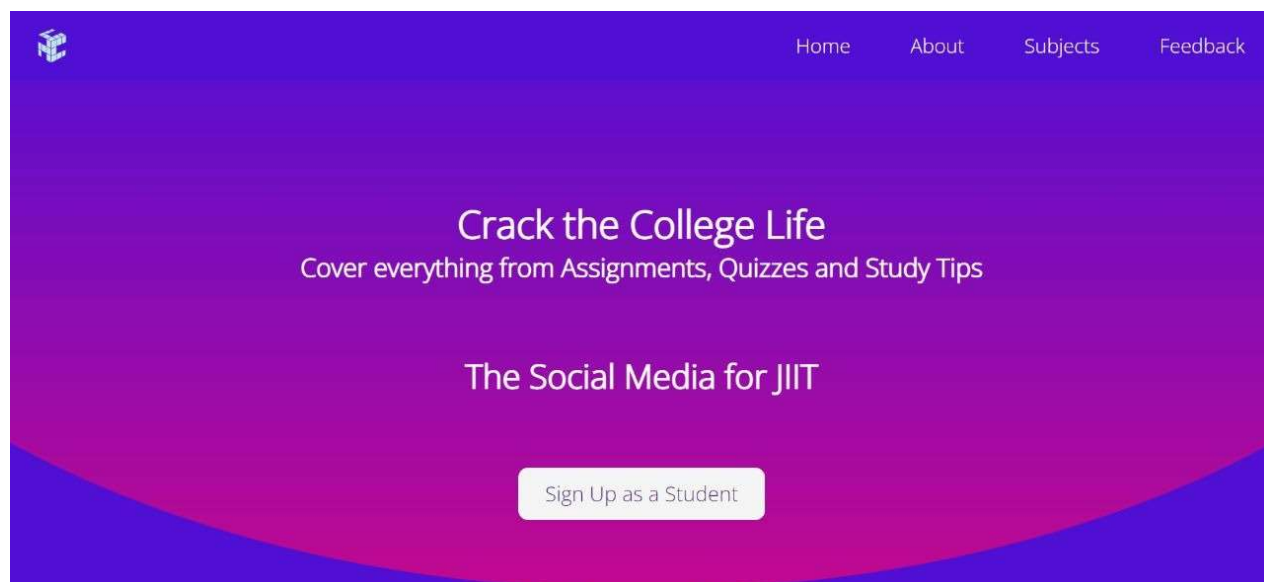
This project is developed using web programming and its components like HTML, CSS, JAVASCRIPT, SQL, and PHP. The project is developed to overcome the barrier between the modern form of communication.

- HTML: It defines the content of the application.
- CSS: It specifies the layout of the application. The styling of the application like you see on the Login and music library page is done using CSS.
- PHP: It is a server-side language. Connect the web pages to the database. This is used for authentication purposes in the application.
- SQL: Used to create database and store data received from clients in form tables
- XAMPP: Provides a platform to use PHP and MySQL.
- Web Browser: A web browser is a software application for retrieving, presenting, and traversing information resources on the World Wide Web.
- Pc/System: All operations are performed on this device. It falls under the category of hardware requirements required for carrying

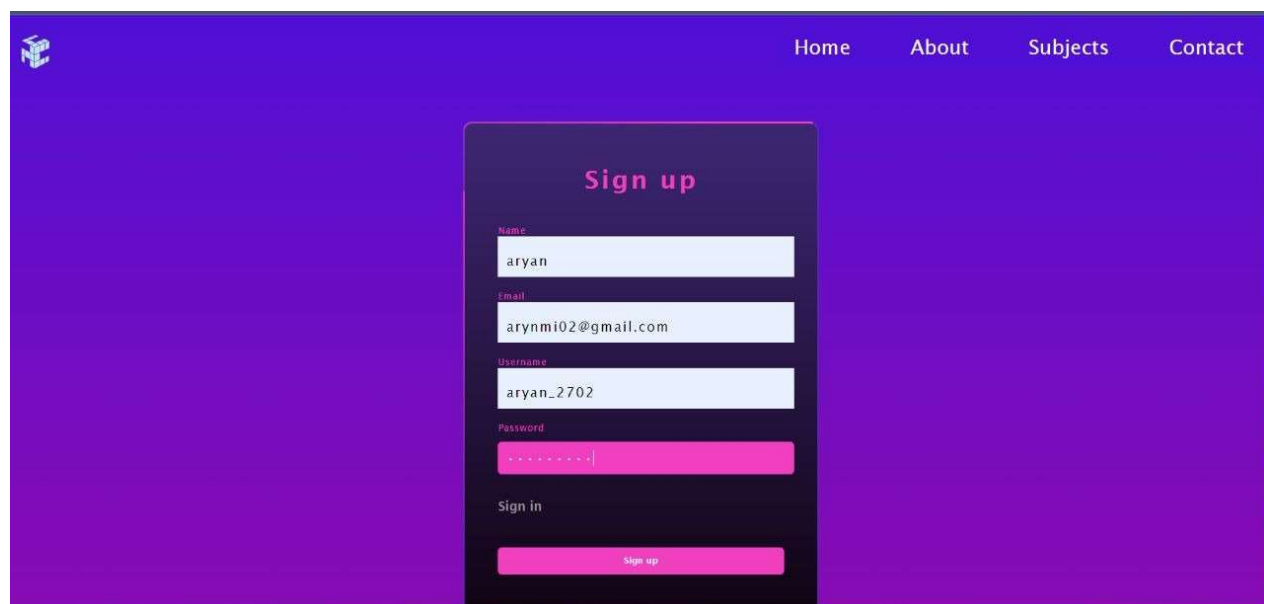
Constraint in our website is that when a new user visits our website then he has to register and in this process he has to fill his name, email and a username, password as login credentials. We have made necessary validations for these details using a php script.

3. TESTING

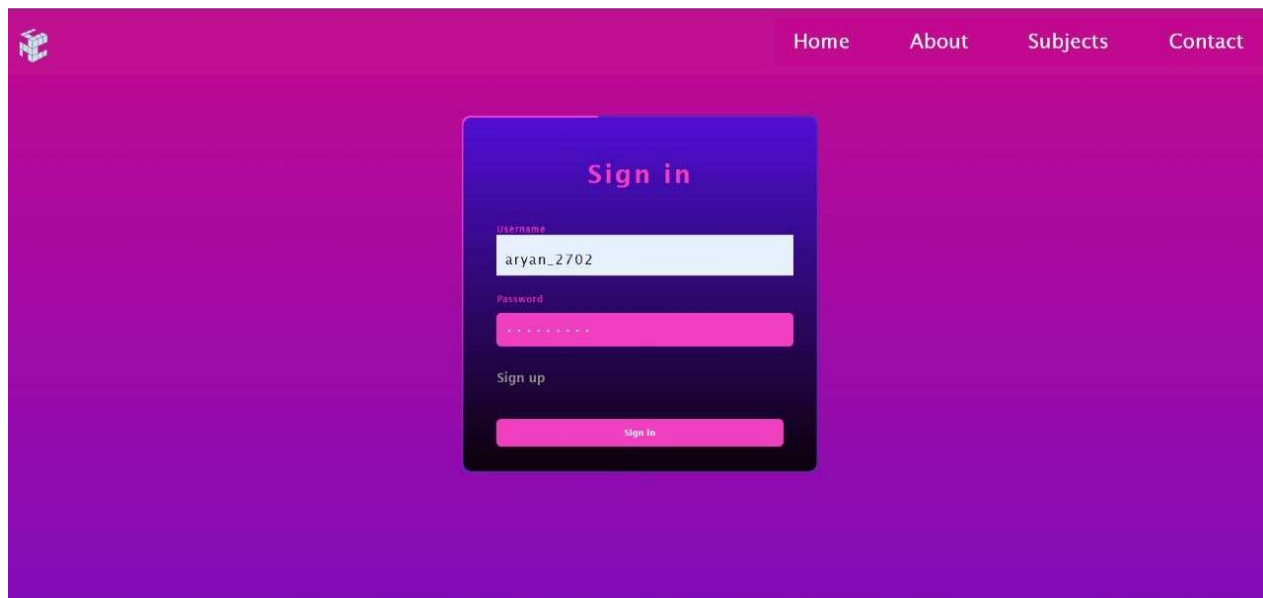
Home Page



Sign up form page



Sign in page



A screenshot of a web application's sign-in page. The page has a dark blue gradient background. At the top, there is a navigation bar with a logo on the left and links for 'Home', 'About', 'Subjects', and 'Contact' on the right. In the center, there is a white rounded rectangle containing the 'Sign in' form. The form has a title 'Sign in' in bold. Below the title, there are two input fields: 'Username' with the value 'aryan_2702' and 'Password' with masked characters. Below the password field, there is a 'Sign up' link. At the bottom of the form is a 'Sign in' button.

Sign in

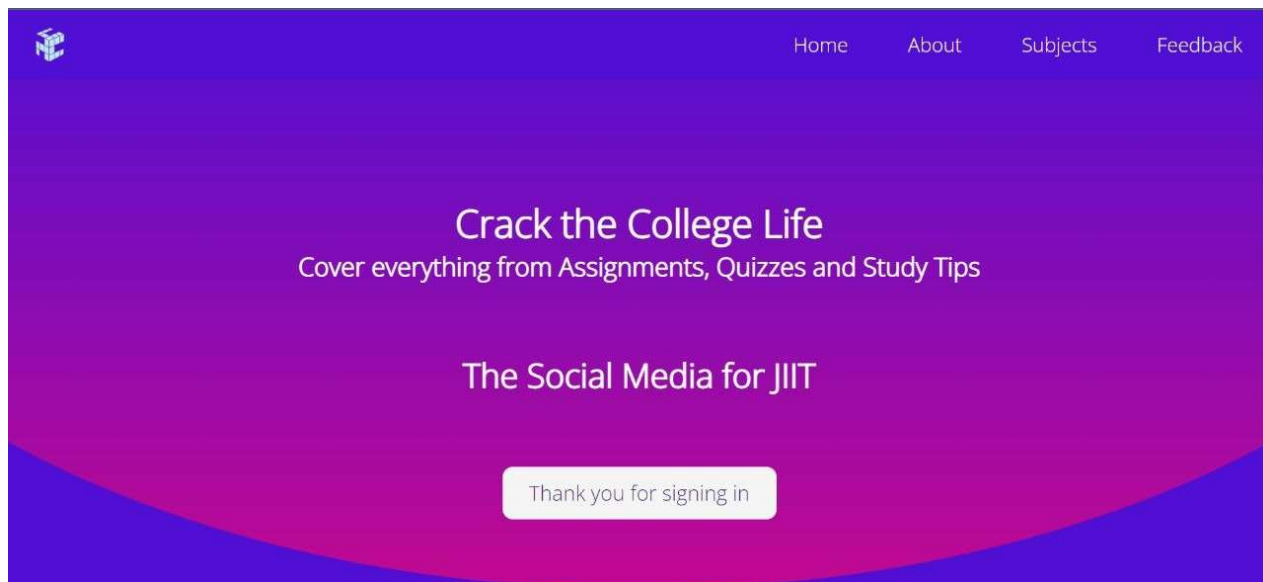
Username
aryan_2702

Password

Sign up

Sign in

Sign in index page



A screenshot of a web application's index page. The page has a dark blue gradient background. At the top, there is a navigation bar with a logo on the left and links for 'Home', 'About', 'Subjects', and 'Feedback' on the right. The main content area features the text 'Crack the College Life' in a large, bold font, followed by 'Cover everything from Assignments, Quizzes and Study Tips' in a smaller font. Below this, there is another line of text: 'The Social Media for JIIT'. At the bottom center, there is a white rounded rectangle containing the text 'Thank you for signing in'.

Crack the College Life

Cover everything from Assignments, Quizzes and Study Tips

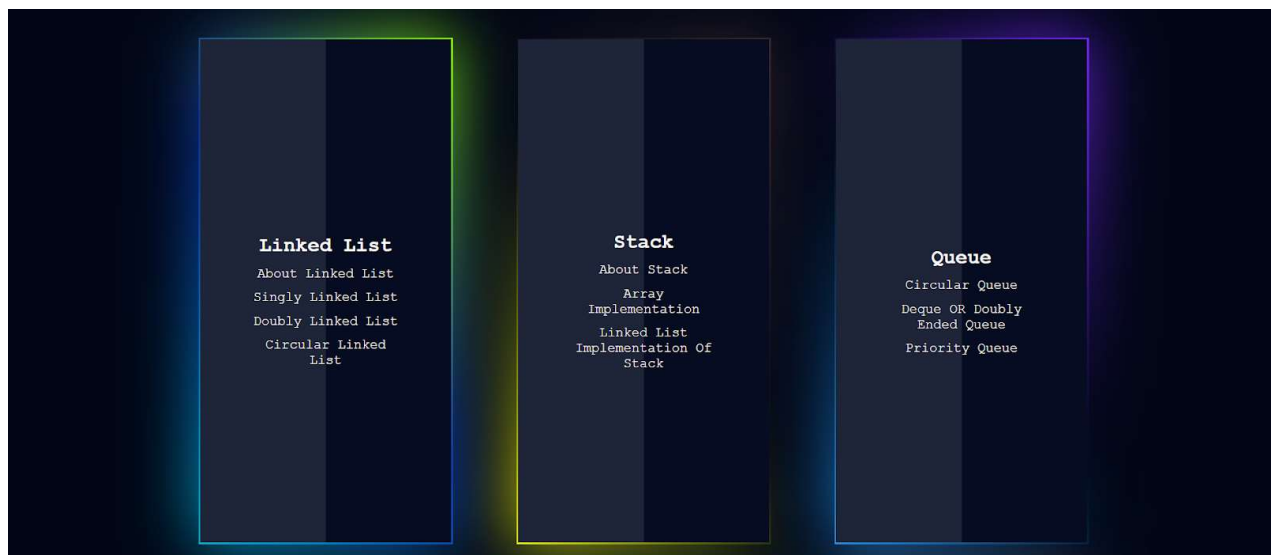
The Social Media for JIIT

Thank you for signing in

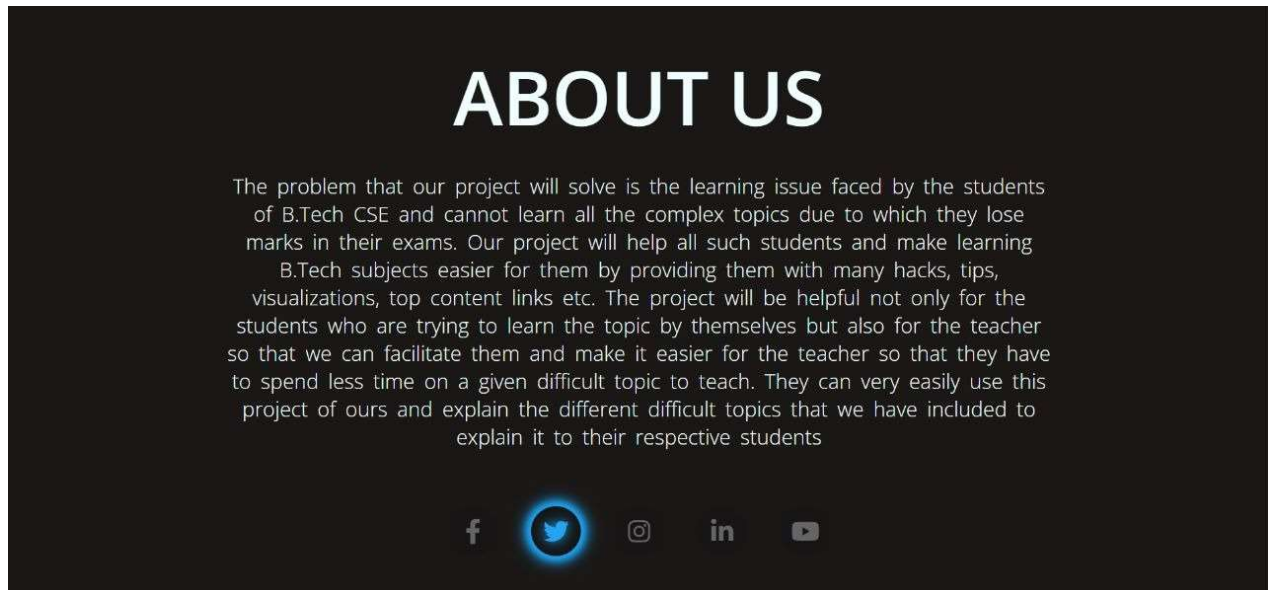
Subjects selection



Subjects with their links with the best material



About us page



Feedback page

A dark-themed feedback form. On the left, there is a large circular graphic with a yellow-to-orange-to-red gradient. On the right, there is a smaller circular graphic with a blue-to-cyan gradient. In the center, a dark grey rounded rectangle contains the text 'Feel free to give feedback' in white bold font. Below this, there are five input fields with white labels and underlines: 'First Name', 'Last Name', 'Email', 'Mobile', and 'Type Your Message Here...'. The text 'Type Your Message Here...' is followed by a small cursor icon.

Sign up table

Server: 127.0.0.1 - Database: arian_db - Table: signup

Showing rows 0 - 5 (6 total. Query took 0.0003 seconds.)

SELECT * FROM `signup`

Number of rows: 25 Filter rows: Search this table Sort by key: None

	name	email	username	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	aryan	aryanmi@gmail.com	aryan0004	\$2y\$10\$UOErahjNYn8hwcK8QddCOeMlotZhiHaeYaMuy4cg1vg...
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	aryan	shouryagm@gmail.com	aryan_002	\$2y\$10\$WBfVDL5MGql3aw9XcjZl3xldTEVbmLb53JotABg0...
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Aryan Patel	shouryagm2@gmail.com	aryan_003	\$2y\$10\$NW13VZCnQDCD34C5bK5YJOEk2yS8WIPN9u8RmMpFy...
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	aryan	aryanmi02@gmail.com	aryan_2702	\$2y\$10\$FIQ70detQgGrSoaQge8EtuUQq3gyCBOl8070dTeEVZ...
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	shivansh	abcgfg@gmail.com	meow	\$2y\$10\$OWLmd3LzrEYORP3gmTvtPuGGI9pMB95EPm/z88BCCg...
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	nitin chaudhary	adcd@gmail.com	putin	\$2y\$10\$1RzE5UqieaEEQeMkogZt uRQ3qEepwz0ZFVjpsDmPp2...

Number of rows: 25 Filter rows: Search this table Sort by key: None

Feedback table

Server: 127.0.0.1 - Database: arian_db - Table: feedback

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 1 (2 total. Query took 0.0002 seconds.)

SELECT * FROM `feedback`

Number of rows: 25 Filter rows: Search this table

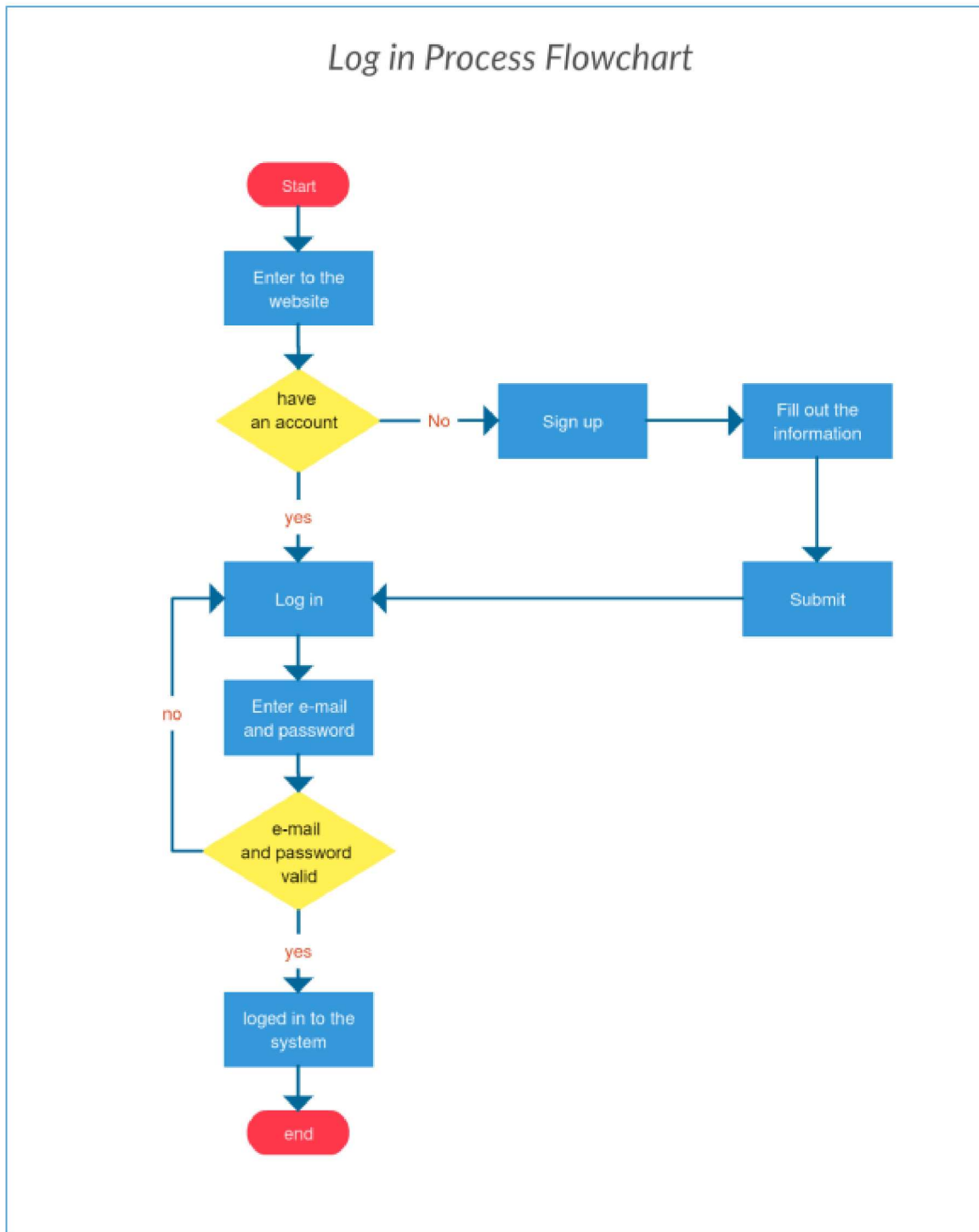
firstname	lastname	email	mobile	message
Aryan	Patel	greg	fewlwt	i am very odd
nitin	chaudhary	nitin@gmail.com	43434343	I am the topper of the class

Number of rows: 25 Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

4. FLOW CHART



After verifying the credentials , the user will get the options of different subjects to choose and then the user can choose different topics, PYQ's , Study material Links etc. according to requirement.

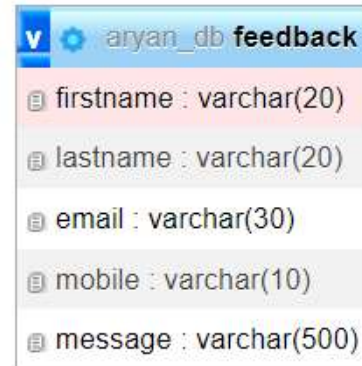
Development Environment:

1. Visual Studio Code - 1.56.2
2. XAMPP 8.0.13 for Windows x64
3. Operating System – Windows 11 64 Bit
4. My-SQL 8 for Windows
5. Php My Admin

5.ER DIAGRAM



v aryan_db signup	
name	: varchar(20)
email	: varchar(30)
username	: varchar(20)
password	: varchar(300)



v aryan_db feedback	
firstname	: varchar(20)
lastname	: varchar(20)
email	: varchar(30)
mobile	: varchar(10)
message	: varchar(500)

We have created two tables -

sign up table - To store details of students who log in to our website. Also we are using this table to know whether a student already has an account or not.

feedback table- In this table we are storing the feedback or review given by the students which will help us to do improvement in our website.

6. CONCLUSION

These content management websites have brought a positive impact in the lives of students and working professionals. It has given an opportunity to take up additional courses along with their studies or job as per their convenience. Online education has also helped the faculty in the institutions to ask students to study some parts of the syllabus online which do not require much classroom instruction. So the online study helps the faculty to save time in which they can interact with the students more. Our website makes it easier for the students to find the best information available on the internet instead of crawling through the google search page in search of an article written in a language they can actually understand. I hope this will help the students in our college initially and then maybe we can expand it to a level where people from all over the country can use it.

9. REFERENCES

- <https://www.w3schools.com/>
- <https://www.javatpoint.com/>
- <https://www.geeksforgeeks.org/>
- <https://www.tutorialspoint.com/>
- <https://www.programiz.com/>
- <https://www.guru99.com/php-tutorials.html>
- <https://www.php.net/>