MyPrepMate

T. E. Information Technology

By

Group No. - 08

Meet Popat 21 Puranjay Potnis 22 Medha Kumble 24

Guide

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University of Mumbai 2020-2021

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Signature:

Ms. Purnima Kubde (Internal Guide)

Activity Completed

Weekly Activity (Semester Mid)

Sr. No.	Activity	Status	Remarks
1	Formulate a web design proposal containing requirement analysis	Done	Completed
2	Create a webpage using HTML and different types of CSS	Done	Completed
3	Perform form validation using JavaScript and design a skeleton for website	Done	Completed
4	Design a Web Layout Using RWD Framework demonstrating HTML5 features like embedding audio, video, geolocation and accessibility	Done	Completed
5	Demonstrate CSS3 transition, transformation, animation, aesthetics and responsive form in your website.	Done	Completed
6	Mid Term Project Evaluation	Done	Completed

Weekly Activity (Semester End)

Sr.	Activity	Status	Remarks
No.			
7	Create and connect database with mini project by using PHP and MySQL.	Done	Completed
8	XML - a) Use XSLT elements b) Create XML Schema	Done	Completed
9	AJAX & JSON - a) Develop and design RIA using AJAX b) Access a JSON file	Done	Completed
10	Host website using any free web domain.	Done	Completed
11	Final Project Evaluation	Done	Completed

Subject Incharge (Ms. Purnima Kubde)

Internal Examiner (Dr. Nazneen Ansari)

Class - TE-IT-B Batch - B2

Project Report Section 1 - Web Design proposal

	PROJECT REPORT			
	Section 1 - Web design proposal			
1.	Website Title -	MyPrepMate		
2.	Overview -	MyPrepMate is an online study platform that aims at the benefit of students in various disciplines of education. Each student will have access to online video lectures, study notes, last-minute preparation notes including flashcards, cheat sheets amongst others. The students also have access to a vast online library where they may be able further their knowledge by reading books, having access to past year papers.		
3.	Need of the Project-	In today's day and age online learning is booming. Every student can, from the comfort of their homes, access the internet and learning is on their fingertips. While one website provides the course, another might provide answers to the questions, and another provides the study materials and tutorials, while another might have related books to the subject material. This leads to a lot of hassles, as the students may need to register on multiple websites and even have to pay some of them to get access to the material.		
4.	Objective -	websites and even have to pay some of them to get access to the material. 1. All the online video lectures, study notes and last-minute preparation material is available on this one website. 2. Students can accelerate their learning with a quick test/quiz as a revision. 3. Pre-recorded lectures from an interesting, thoughtful teacher can help students to study anywhere anytime they want. 4. Online Library System wherein the student can access past year question papers.		
5.	Problem statement-	In today's world, with multiple resources available to learning, a major hassle is the unavailability of all the materials at one place. Students may have to tirelessly search across millions of pages to reach a conclusive answer.		

6.	Problem Solution	By not only providing tools for learning on the platform, resources like
		books, past year question papers must also be available to the students. A
		discussion forum along with expert advice from faculties as well as testing
		methodologies help the student excel all while staying on the same website.
		This not only reduces the problem of long searches but also the problem of
		ease of access

Problem statement:

In today's day and age online learning is booming. Every student can, from the comfort of their homes, access the internet and learning is on their fingertips. But each of these websites faces a problem and that is all their tools aren't down to one place. While one website provides the course, another might provide answers to the questions, and another provides the study materials and tutorials, while another might have related books to the subject material.

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Project Report Section 2 - Requirement Analysis

,	Section 2 -	Requirement	Analysis	
1.	Target Audience -	College going students (scope increase possible)		
2.	Features Required -	Ease of finding course packages along with required study material Online Access to Video Lecture Access to study material Doubt solving via discussion forums and one - on - one expert answers.		
3.	Software and Hardware	1.Software 1	requirements –	
	requirements	Sr.no	Name	Version
	-	1.	Operating System	Windows/Mac OS/Linux
		2.	Text Editor	Sublime Text/ Notepad++
		3. Web Browser Google Chrome		Google Chrome
		2.Hardware requirements –		
		1.	RAM	Minimum 2 GB Recommended 4GB and above
		2.	Processor	Intel processor with 64-bit support Recommended 2 GHz faster
		3.	CPU	
		4.	Internet connection	Should be available
4.	Sites referred	Coursera - Puranjay (Course Listings, Search, Discussion forums)		
7.	-	Udemy - Meet (Course Listings, Search, Registration of different teachers on the same platform) Swayam NPTEL - Medha (Weekly Test Methodology, Purchasing Online courses) BYJU'S - Puranjay (Availability of online material) Khan Academy - Medha (Integration of students, teachers and parents through		
		one portal) Mentimeter - Me	eet (In-class live testing thro	ough polls for live lessons)

Tutorialspoint - Medha (Filtration of courses according to the selection)
Muquestionpapers - Meet (Past year question papers)
Openlibrary- Puranjay (Library for e-books)

• Introduction of the topic selected for the website.

MyPrepMate is an online study platform that aims at the benefit of students in various disciplines of education. Providing the right tools for each course, MyPrepMate aims to bring out the best in each student. Each student will have access to online video lectures, study notes, last-minute preparation notes including flashcards, cheat sheets etc. Combined with the facility to test their knowledge in the subject MyPrepMate can make a student fully prepared for the examinations. The students also have access to a vast online library where they may be able further their knowledge by reading books, having access to past year papers etc.

• Problem and problem solution description

Problem: In today's day and age online learning is booming. Every student can, from the comfort of their homes, access the internet and learning is on their fingertips. But each of these websites faces a problem and that is all their tools aren't down to one place. While one website provides the course, another might provide answers to the questions, and another provides the study materials and tutorials, while another might have related books to the subject material.

Solution: This leads to a lot of hassles, as the students may need to register on multiple websites and even have to pay some of them to get access to the material. MyPrepMate aims at bridging this gap. At MyPrepMate with all course-related material at one site all the students need to do is to register and at once everything is available to them. This solution is not only aimed at the student's ease of access, but also to the ever-increasing costs involved in the access. At a reduced overall cost, students need not even spend largely for the coursework.

• Description of features selected for the website and the target audience.

Coursera - Course listings on Coursera are found from a drop-down menu, where the courses are divided based on topics and skills. It also features courses based on the payment status of the course (free/paid), the skills offered from a particular university. Discussion forums are an integral part of the course structure where all the students registered for the course discuss problems and come up with solutions.

Udemy – Course listings on Udemy are found via categories and what other students are viewing. Udemy also offers individual instructors to begin their independent course on the website.

Swayam NPTEL - Quite different from Coursera and Udemy in a way NPTEL's course catalogue is divided into ongoing courses and upcoming courses. It also features a filter using which we can immediately come upon a course of our choice.

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BYJU's - On BYJU's along with the course is the study materials category that allows a quick search of exam-based study materials. It also features free counselling and a chatbot to help understand concepts.

Khan Academy - This is one such website wherein the students, teachers and the tutor's login through a single portal and the parents and tutors can view the progress of the students through that single portal. In this way, it becomes simple for the tutors as well as the parents to keep track of the student.

Mentimeter - Mentimeter is an online tool to interact with any audience using real-time voting polls. This allows the instructor to view poll answers quickly by the students in real-time. This is a great way to test the students' understanding ability.

Tutorialspoint - In this website, it has a lot of courses and programming languages wherein you could log in and select the topic on which you want to read and they also have a discussion forum where the students can ask their doubts regarding any particular topic.

Muquestionpapers - In this website, you can find all the past year question papers of Mumbai University in a single website. We can use this feature for maintaining an e-library wherein we can add the past year question papers for the students so that they don't have to search for it on another website.

Open Library - Open Library is an open, editable library catalogue, building towards a web page for every book ever published. Students can buy e-books and can learn anywhere anytime.

Wireframes –

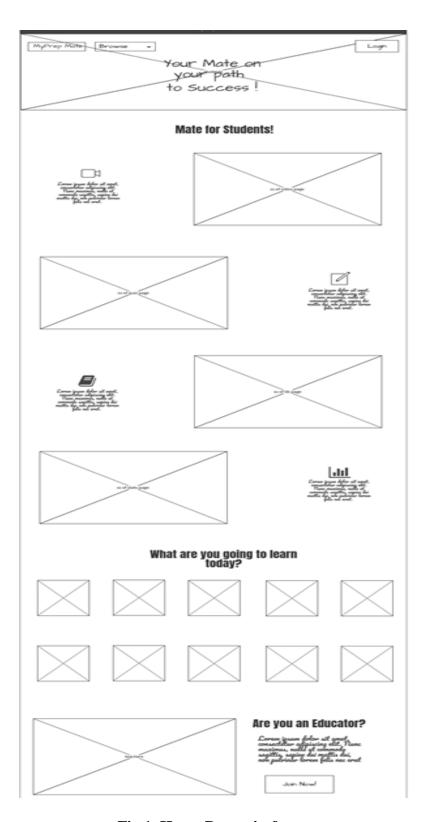


Fig.1. Home Page wireframe

Description of Home page:

This is the first page of the website where we've used a login link and a registration link. The design of the login and registration link is such that it opens as a modal rather than a separate webpage. This home page has different sections to select like the video lectures, e-library, online quiz and performance reports. It also displays the different courses like data structures, java, web development etc.

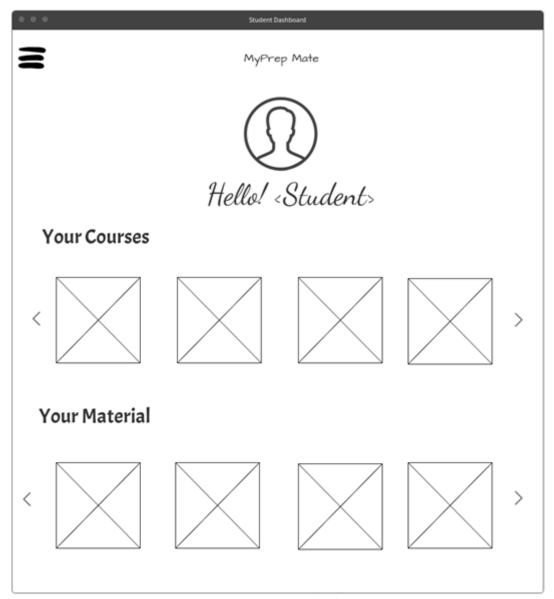


Fig.2. Dashboard wireframe

Description of the Dashboard:

In the dashboard section, we've added all the enrolled courses and material by every individual student. This lets you navigate through different parts of the webpage like the enrolled courses by the individual student and also the study material. To reach the student dashboard one has to first login on the page after which every student will be having their own student dashboard.

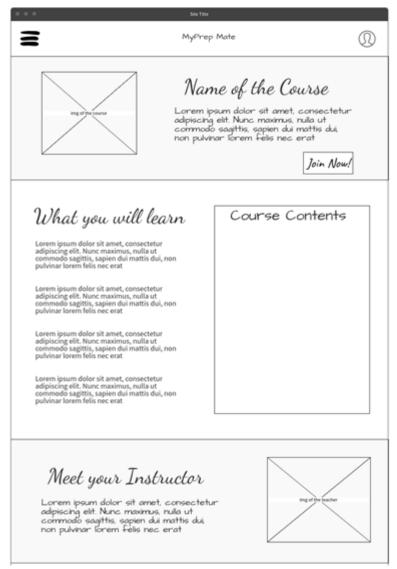


Fig.3. Course Page wireframe

Description of Course page:

Every course on the website has its own course page which displays all the content related to the course like the description about the course and also lets you enroll in each course. It also shows the contents taught in the particular course and the duration of each course. The course page will be having animations which will pop up every time you try to scroll through the page.

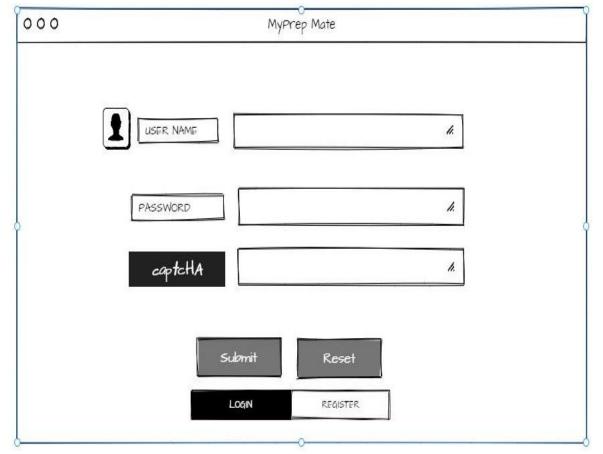


Fig.4. Login Page wireframe

Description of Login Page:

For the login page we've used a modal rather than a normal web page. The login modal will open every time you click on the login button. For the login form we used a username and password field for the students to login. It also has a forgot password link and remember me link. It will check the username and password and only then let you log in the account. Once you've logged in it will directly navigate you to the student dashboard.

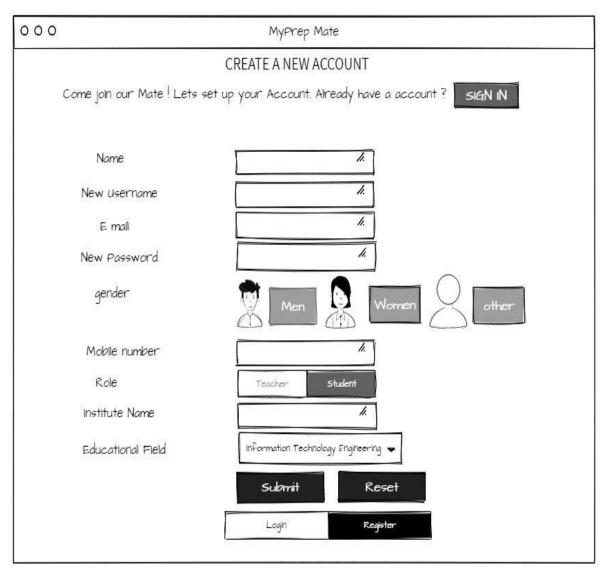


Fig.5. Registration Page wireframe

Description of Registration page:

The Registration page is similar to the login page. Even for the registration page we used a modal rather than making a different page. There's a join now button which helps you reach the registration modal. We used various validations for the registrations like the contact number should be 10 digits, name should have minimum 2 characters, password should be in between 8-15 characters etc. After checking all the necessary conditions only then the record will be considered and then be used further for the login information.

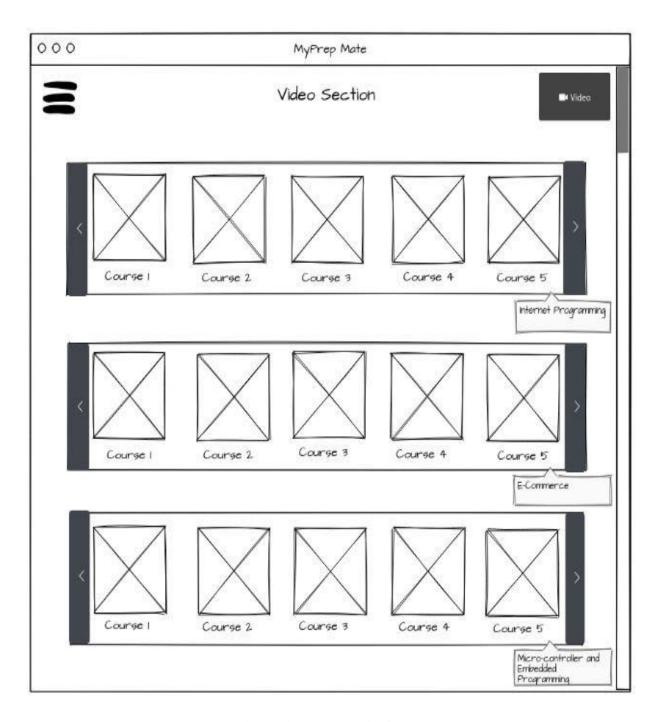


Fig.6.Video Page wireframe

Description of Video page:

This is the video section of the website. We've added different video links in the video sections which lets you browse and select through different course videos. The links are added in such a way that the links will directly take you to the you tube video link related to the course video you select.

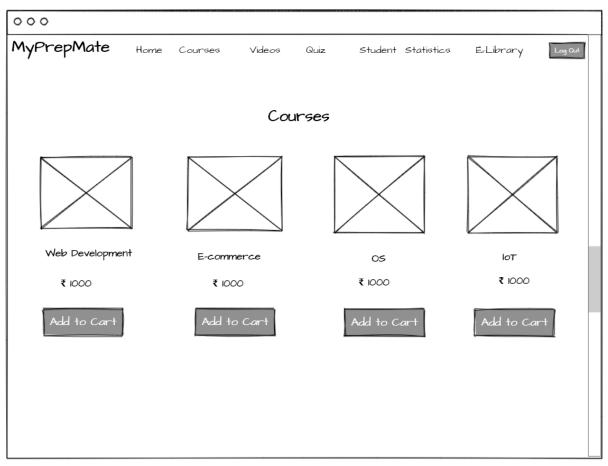


Fig.7. E-Library Course Page wireframe

Description of E-Library course page:

This is the E-library course page which helps the student to go through different courses and then add them in their account by paying the necessary amount. There's a wide range of courses from which the student can select the courses they like and then click on the add to cart button which will then navigate them further to the confirmation page.

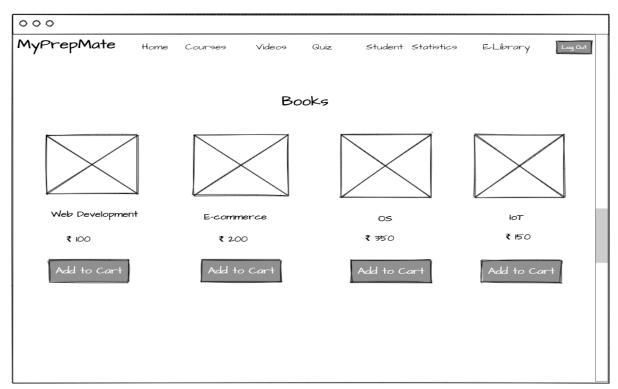


Fig.8. E-Library Books Page wireframe

Description of E-Library books page:

This is the E-Library books page which is similar to the E-Library course page. This page contains different books related to the courses the website offers. The students can select through a wide range of e-books and pay for them accordingly. After selecting the books of one's choice they can then proceed to the confirmation page after which the books will be directly added to their account.

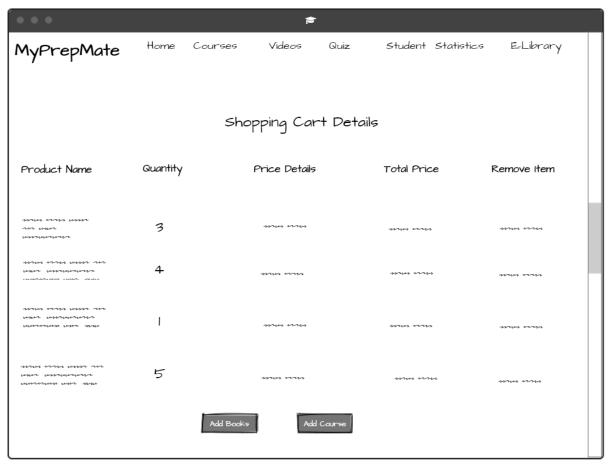


Fig.9. Cart Page wireframe

Description of Cart page:

This is the confirmation page of the website. This page lets you add and remove courses and books before paying the amount. This page lets you see the description of the product and the quantity of products. It also displays the total price and a link to delete the any item.

Blueprint-

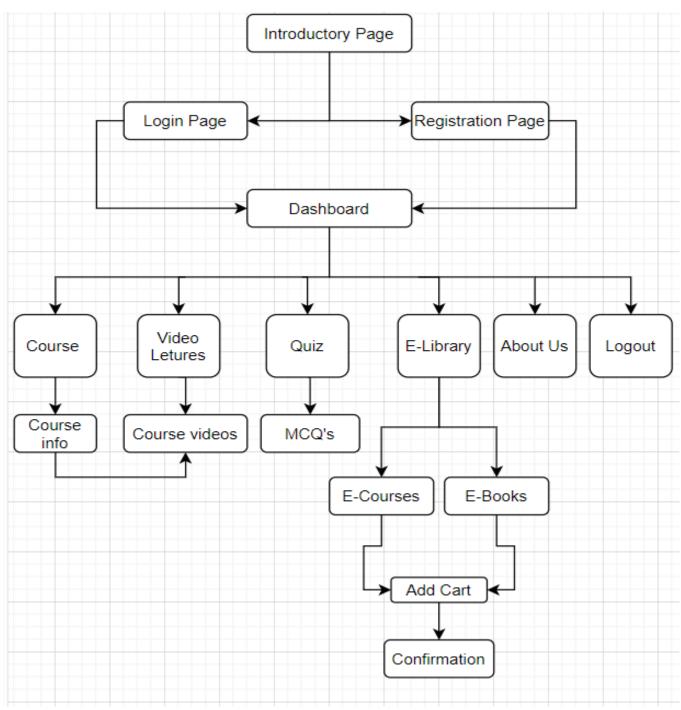


Fig.10. Blueprint of website

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Description of Blueprint:

The webpage starts with the introductory page which has the login and registration link which both lead you to the main dashboard which consists of different section like the course information, video lectures, Online quiz, student statistics and e-library. The course section allows you to read and enroll in the different courses offered by the page. The video section and Online quiz sections directly lead you to the recorded video lectures and online quiz sections respectively. The student statistics section lets you check the results, books and ranking. The E-library page lets you select different E-books, question papers and reference papers which direct you directly to the add to cart page which lets you add the books in your account by paying the required amount using the confirmation page.

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Output (Screenshot and Description)

Activity Completed (Mid Semester)

Sr. No.	Activity	Date
1	Formulate a web design proposal containing requirement analysis	4/8/20
2	Create a webpage using HTML and different types of CSS	10/8/20
3	Perform form validation using JavaScript and design a skeleton for website	20/8/20
4	Design a Web Layout Using RWD Framework demonstrating HTML5 features like embedding audio, video, geolocation and accessibility	10/9/20
5	Demonstrate CSS3 transition, transformation, animation, aesthetics and responsive form in your website.	20/9/20
6	Mid Term Project Evaluation	22/10/20

OUTPUT-



Fig.11.Home Page



Fig.12.Home Page continued



Fig.13.Home Page continued

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Responsive	Viewport
3	Button	Navbar, Verification
4	Animations	CSS3(keyframes), JavaScript
5	Image Cards	HTML
6	Image Card Animation	CSS3



Fig.14. Registration Modal

Sr. No.	Feature Used	Technology Used
1	Responsive	Viewport
2	Modal	HTML,CSS3
3	Form	HTML
4	Verification	JavaScript

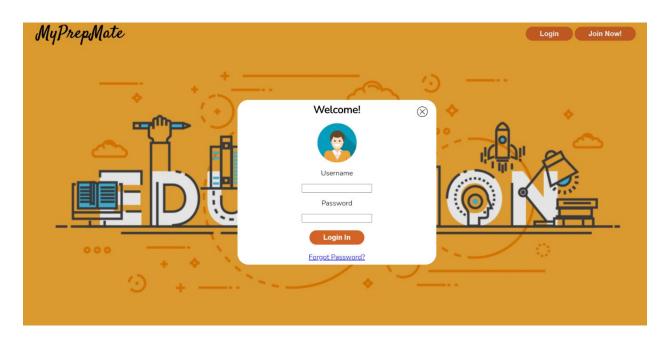


Fig.15. Login Modal

MyPrepMate

Sr. No.	Feature Used	Technology Used
1	Responsive	Viewport
2	Modal	HTML,CSS3
3	Form	HTML
4	Verification	JavaScript



E-library

Fig.16. Dashboard Page

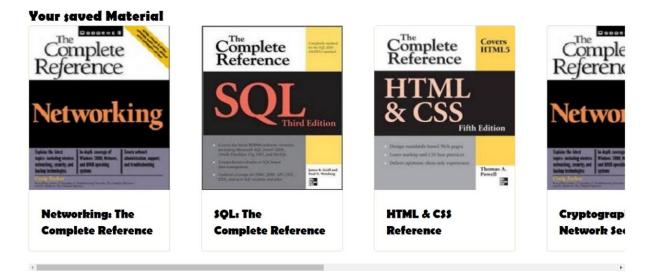


Fig.17. Dashboard Page continued

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Logo	HTML,CSS3
3	Responsive	Viewport
4	Avatar animation	CSS3 Animation
5	Animations	CSS3(keyframes), JavaScript
6	Image Cards	HTML
7	Image Card Animation	CSS3



Fig.18. E-Library Course page

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Responsive	Viewport
3	Image Cards	HTML,CSS3,PHP



Fig.19. E-library books page

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Responsive	Viewport
3	Image Cards	HTML,CSS3,PHP



Fig.20. Add to cart page

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Responsive	Viewport
3	Remove item	PHP



Fig.21.Video page

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Responsive	Viewport
3	Embedded Links	HTML

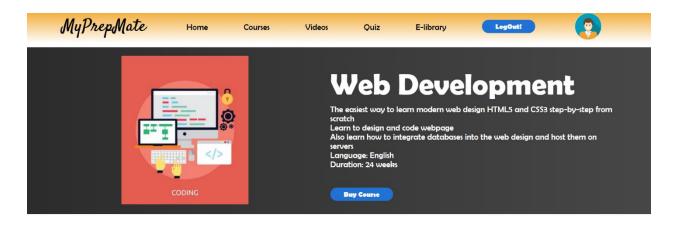


Fig.22. Course details



Fig.23. Course details continued

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Responsive	Viewport
3	Text	CSS3 animation

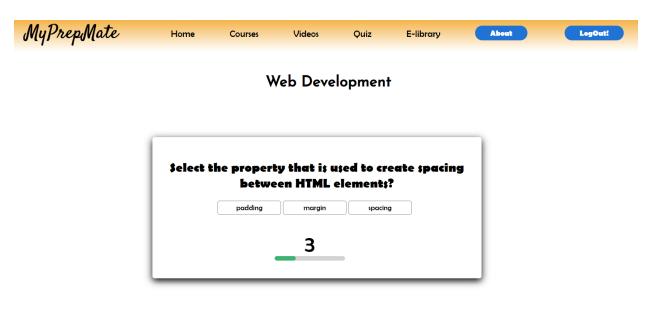


Fig.24. Quiz page



Fig.25. Quiz page

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Responsive	Viewport
3	Text	Responsive text
4	Timer	JavaScript
5	Box	CSS3

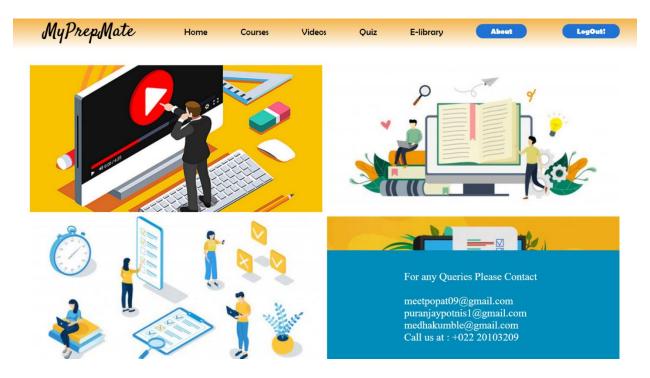


Fig.26. About page

Visit Our Office

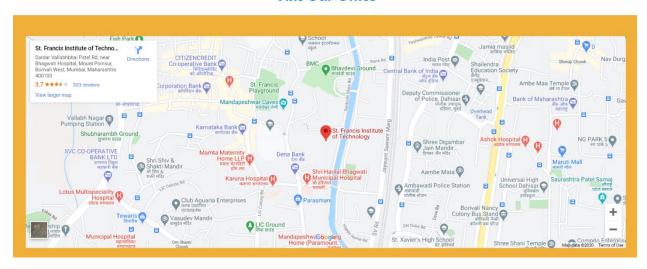
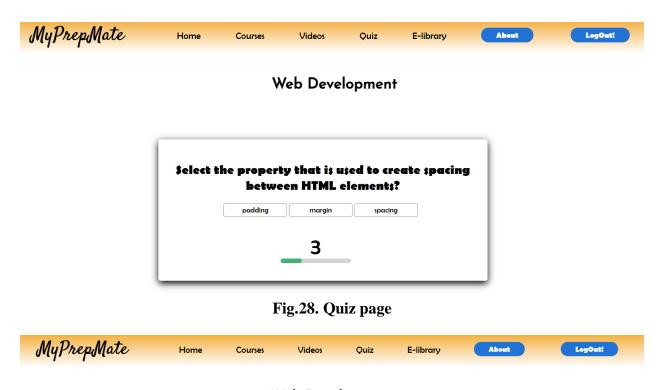


Fig.27. About page continued

Sr. No.	Feature Used	Technology Used
1	Navigation Bar	HTML,CSS3,JavaScript
2	Responsive	Viewport
3	Text	Responsive text
4	Container	HTML,CSS3
5	Gmaps	HTML,CSS3

Weekly Activity (Semester End)

Sr.	Activity	Date
No.		
7	Create and connect database with mini project by using PHP and MySQL.	13/10/20
8	XML - c) Use XSLT elements d) Create XML Schema	20/10/20
9	AJAX & JSON - b) Develop and design RIA using AJAX b) Access a JSON file	27/10/20
10	Host website using any free web domain.	3/11/20
11	Final Project Evaluation	24/11/20



Web Development



Fig.29. Quiz page

Description-

Sr. No.	Feature Used	Technology Used
1	Questions	JSON,AJAX

What you will learn

- How to write HTML5 syntax along with semantics
 Learn to style your HTML documents using Cascasing StyleSheets
 Add dynamic content to your webpages using lavascript
 Learn to create Cooles and Sessions using PHP
 Host your webites on a web server
 Store and transmit data displayed by your HTML using XML codes

Contents

How to write HTML5 syntax along with semantics Learn to style your HTML documents using Cascasing StyleSheets Add dynamic content to your webpages using Javascript Learn to create Cooleis and Sessions using PHP Host your weblites on a web server Store and transmit data displayed by your HTML using XML codes



Fig.30. Course page

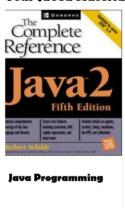


Fig.31. Course page continued

Description-

Sr. No.	Feature Used	Technology Used
1	See instructor button	AJAX, XML

Your saved Material





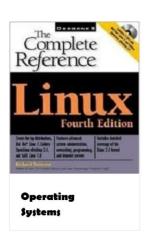




Fig.32. Saved Material

SUBJECT	AUTHOR	DATE	BRANCH	PID
INP	Ms.Purnima Kubde	28th July 2021	Information Technology	1022
E-Commerce	Mr.Vaibhav Kala	24th August 2021	Information Technology	1023
ADMT	Ms.Shree Jaiswal	23rd September 2021	Information Technology	1024
MCEP	Ms.Prachi Raut	13th November 2021	Information Technology	1025
CNS	Ms.Amrita Mathur	15th February 2021	Information Technology	1026
BCE	Ms.Neha Agnihotri	3rd November 2021	Information Technology	1027

Fig.33. Upcoming books list

Description-

Sr. No.	Feature Used	Technology Used
1	Upcoming Books	XML, XSLT

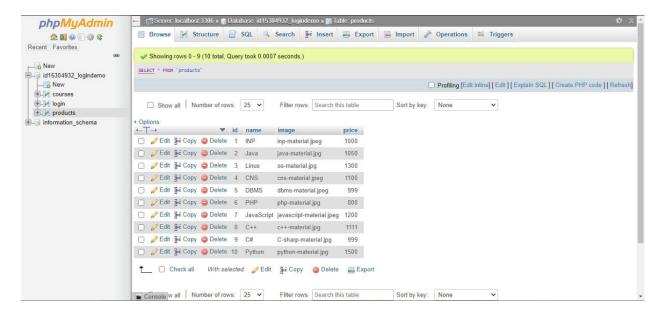


Fig.34. phpMyAdmin

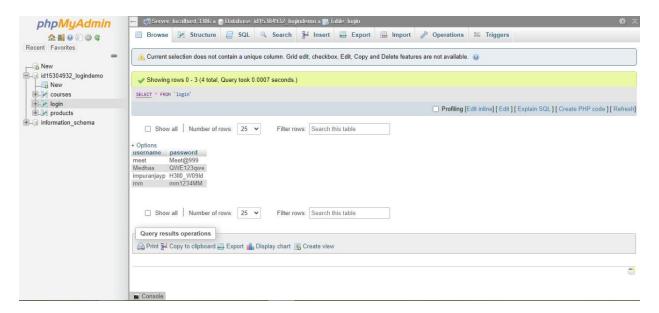


Fig.35. phpMyAdmin continued

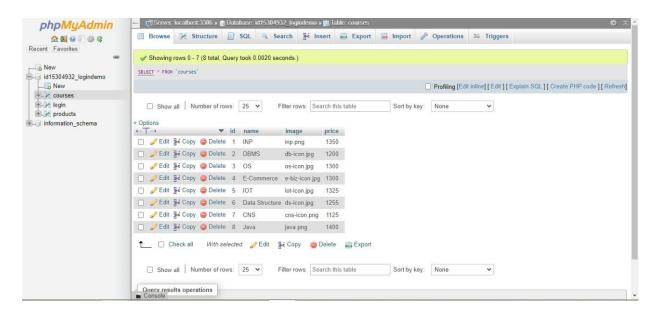


Fig.36. phpMyAdmin continued

Description-

Sr. No.	Feature Used	Technology Used
1	User's credentials	phpMyAdmin

WEBSITE LINK:

http://myprepmate.000webhostapp.com/intro_login/intro.php

Steps for hosting a website:

- 1. Create an account on 000webhostapp.com
- 2. Click on the create new account button in client area to create a website domain
- 3. After the domain is set up, click on the manage button
- 4. Click on control panel
- 5. Go to phpMyAdmin and set up the required database
- 6. View the connection details in MySQL Databases option in the control panel and write the code for establishing database connection accordingly.
- 7. Use the online file manager option in the control panel to upload your code.
- 8. Your website is now up and live.

Class - TE-IT-B Batch - B2 Group No - 08 Website Name – MyPrepMate.com

Conclusion

Conclusion:

The MyPrepMate website is as an online study platform can be considered beneficial to all the students as they can access all the study material on a single website. While making this website we used concepts of Client side scripting languages like HTML5, CSS3, and JavaScript. Each page is written using HTML5 semantics and styled using concepts of CSS3 including a RWD. JavaScript was also used to validate input to forms.

Through the design of this website, we learnt how to link different webpages using anchors, design and image cards, extensively using the CSS web grid to accommodate each element and make a web design for each possible device.

CSS which is an extremely powerful style sheet language is used to control the look and feel of the content written in HTML. With the help of CSS, we were able to create rules and apply those rules to many elements within the website. We can also use them to style multiple webpages. We made use of different CSS styles to implement vibrant colours, interesting fonts, and background images, to modify the entire mood and tone of our web page and also to allow our website to adapt to different screen sizes and device types. We made use of CSS transitions like hover and various animations to grab the user's attention towards our website.

JavaScript is a programming language which is mostly used client-side to make webpages interactive. JavaScript is supported by all modern web browsers and is used on almost every site on the web. We have implemented JS to display prompts, dialog boxes and to provide client-side validation. The combination of HTML, CSS with JavaScript provides for more powerful and complex functionality in terms of web development.

Ajax which is a browser technology independent of web server software. A user can continue to use the application while the client program requests information from the server in the background. Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display. Xml plays a very important role in different IT systems. XML uses human, not computer, language. XML is readable and understandable. The XML tag names are readable and convey the meaning of the data. PHP is a server-side scripting language. that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages scripts can only be interpreted on a server that has PHP installed.

With the help of all these elements we were able to successfully create a website that can could be beneficial to all the students and could also be easily accessible.

Class - TE-IT-B Batch - B2

Work Distribution

Page/ Modules	Done by
Home Page	Puranjay/Meet
Student Dashboard Page	Puranjay
E-Library Page	Meet
Videos Page	Medha
Quiz Page	Puranjay
Courses Page	Medha
Courses Details Page	Puranjay
Add To Cart Page	Meet
About Page	Meet

References

References:

1) Website

- a. Coursera. 2020. *Coursera | Build Skills With Online Courses From Top Institutions*, Accessed 22 November 2020. [online] Available at: https://www.coursera.org/
- b. Tutorialspoint.com. 2020. Rxjs, Ggplot2, Python Data Persistence, Caffe2, Pybrain, Python Data Access, H2O, Colab, Theano, Flutter, Knime, Mean.Js, Weka, Solidity, Accessed 22 November 2020. [online] Available at: https://www.tutorialspoint.com/
- c. Udemy. 2020. *Online Courses Learn Anything, On Your Schedule | Udemy*, Accessed 22 November 2020. [online] Available at: https://www.udemy.com/
- d. W3schools.com. 2020. *W3schools Online Web Tutorials*, Accessed 22 November 2020.[online] Available at: https://www.w3schools.com/
- e. Openlibrary.org. 2020. *Welcome To Open Library | Open Library*, Accessed 22 November 2020. [online] Available at: https://openlibrary.org/