WEB COURSERA

Project Report

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Date : 11/09/2021

Problem statement

Host a website to create an online learning platform for the programming courses using HTML and CSS. The online web coursera platform must list all the courses offered for online learning. Web-Coursera homepage must display the icons for categories, search bar, login and sign up page.

Sub-Section - 1

Problem statement:

To design a homepage that shows courses offered as HTML, CSS, JAVASCRIPT, JAVA, AJAX, PYTHON.

Approach and Explanation:

We used basic HTML, CSS and Bootstrap to design the homepage that shows courses offered as per required by the problem statement. We used a bootstrap card component and navigable links that helped us navigate to that particular course page. If we click on an HTML card it helps us navigate to that particular page. It also shows the header section which consists of a nav bar which is also a component of bootstrap that we have used which consists of search bar, login and signup buttons that takes us to the login and signup page which is designed using html and css also it consists of a LMS logo at the left most corner of nav bar.
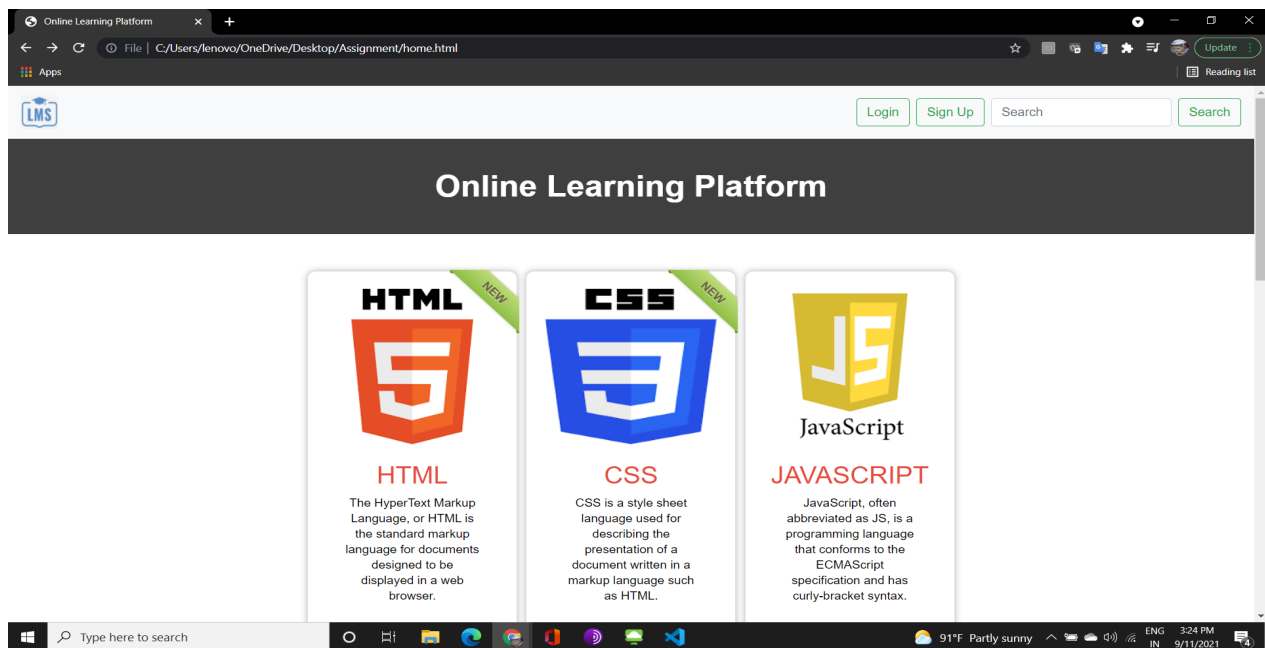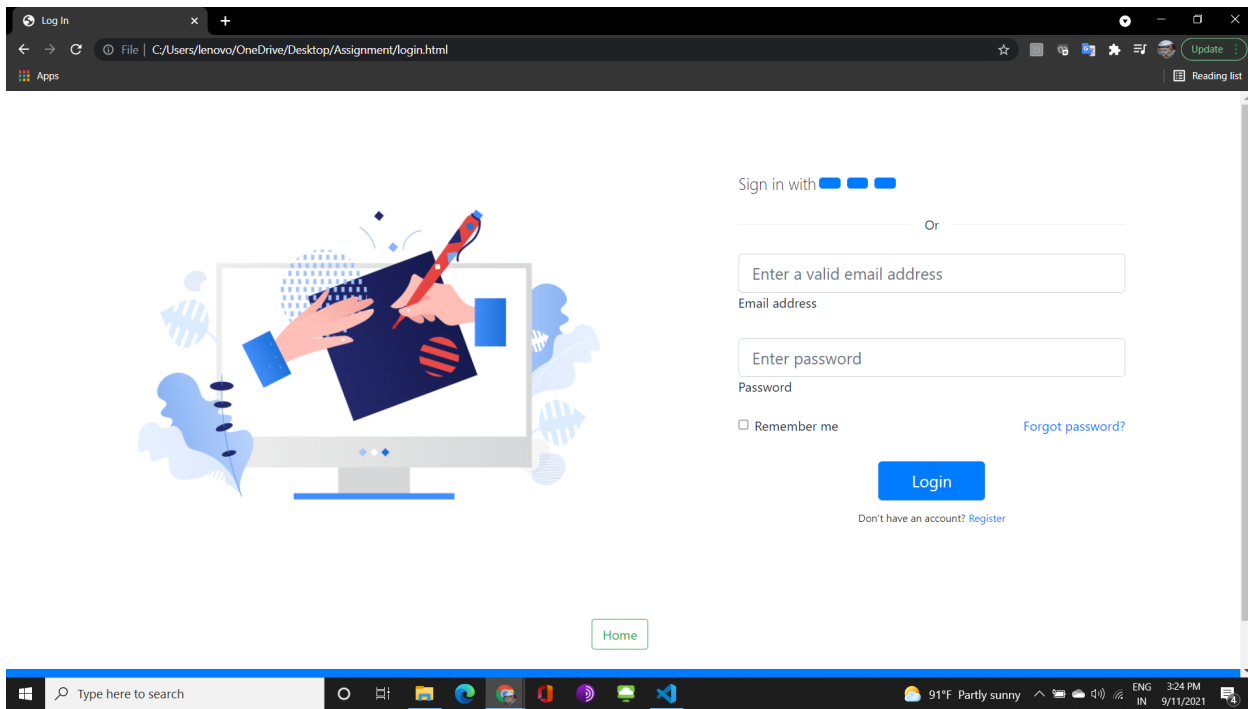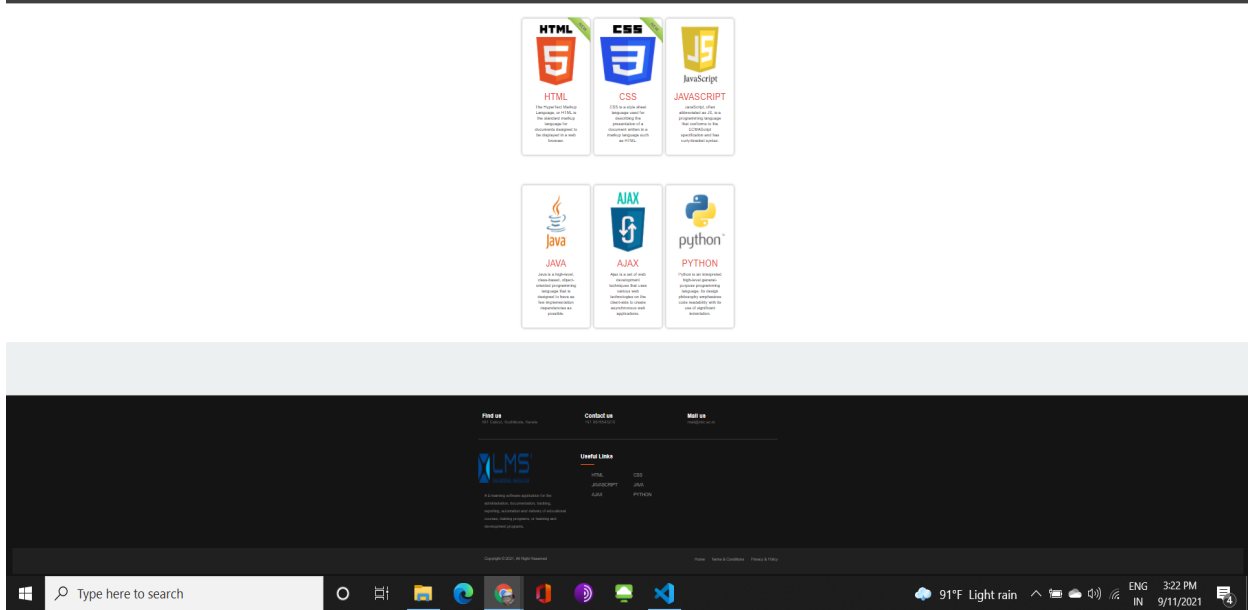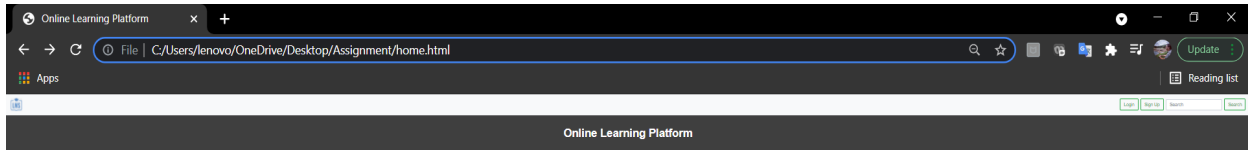
Expected outcome:

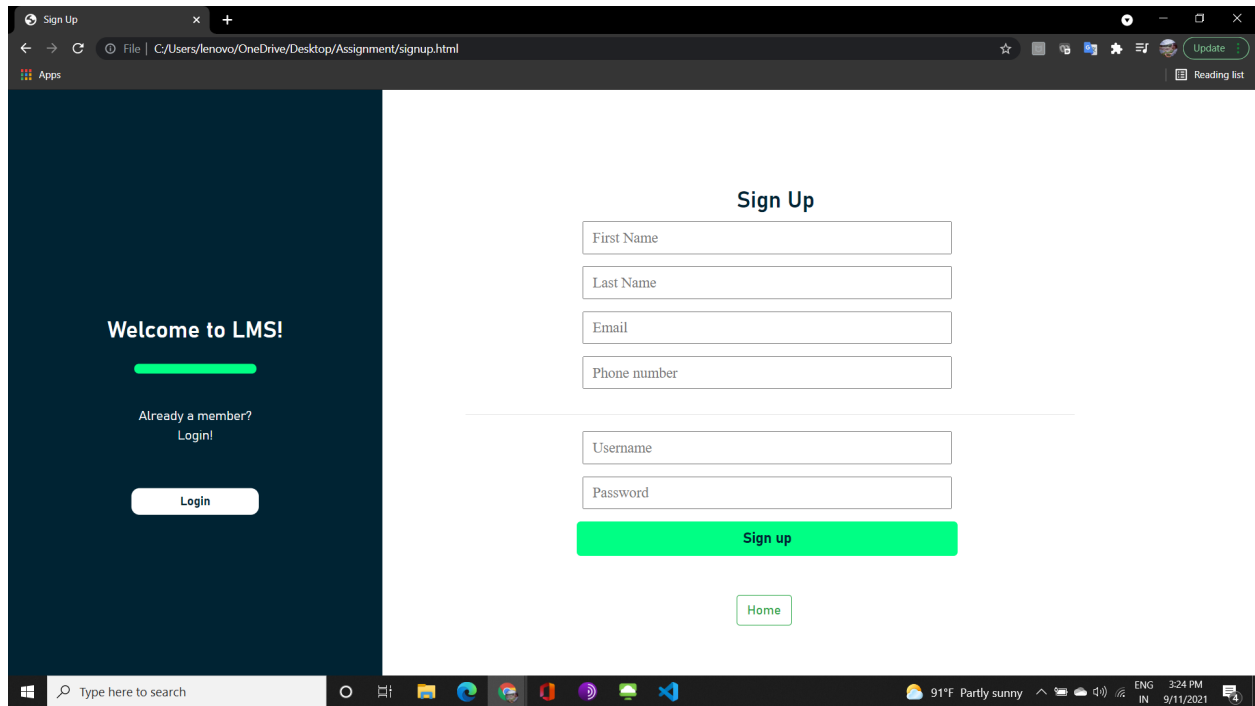Proper home page that consists of all the requirements mentioned in the problem statement for subsection -1.

Results:

We were able to achieve the requirements as mentioned in the problem statement: all course cards are ready and also navigable with a proper nav bar with all required buttons search bar login and signup buttons and a LMS logo.

Screenshots:

File | C:/Users/lenovo/OneDrive/Desktop/Assignment/home.html

Apps

Reading list

Login Sign Up Search Search

Online Learning Platform

HTML5
HTML
The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser.

CSS3
CSS
CSS is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.

JavaScript
JAVASCRIPT
JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification and has curly-bracket syntax.

Java
JAVA
Java is a high-level, class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible.

AJAX
AJAX
Ajax is a set of web development techniques that uses various web technologies on the client-side to create asynchronous web applications.

python
PYTHON
Python is an interpreted, high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation.

Find us
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LMS

A learning software application for the administration, documentation, tracking, reporting, automation and delivery of educational courses, training programs, or learning and development programs.

Useful Links
HTML   CSS
JAVASCRIPT   JAVA
AJAX   PYTHON

Copyright © 2021, All Right Reserved   Home   Terms & Conditions   Privacy & Policy

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File | C:/Users/lenovo/OneDrive/Desktop/Assignment/login.html

Apps

Reading list

Sign in with ▬▬ ▬▬ ▬▬

Or

Enter a valid email address

Email address

Enter password

Password

☐ Remember me   Forgot password?

Login

Don't have an account? Register

Home

File | C:/Users/lenovo/OneDrive/Desktop/Assignment/signup.html

Apps

Reading list

Welcome to LMS!

Already a member?
Login!

Login

Sign Up

First Name

Last Name

Email

Phone number

Username

Password

Sign up

Home

Sub-Section - 2

Problem statement:

To design each course content page that must contain all the references required for the course. The course page must also contain the recorded sessions.

Approach and Explanation:

We used basic HTML, CSS, Bootstrap to design course pages for each course that consists of course logo, course description references and also recorded sessions for that particular course. We used a bit of bootstrap embedded javascript to implement the functionality that we will be explaining in the next section.

Expected outcome:

Proper course page that consists of all the requirements mentioned in the problem statement for subsection -2.

Results:

We were able to achieve the requirements as mentioned in the problem statement: all course pages were fully ready with all the mentioned functionality and requirements.

Screenshots:

Ajax is a set of web development techniques that uses various web technologies on the client-side to create asynchronous web applications. With Ajax, web applications can send and retrieve data from a server asynchronously (in the background) without interfering with the display and behaviour of the existing page. By decoupling the data interchange layer from the presentation layer, Ajax allows web pages and, by extension, web applications, to change content dynamically without the need to reload the entire page. In practice, modern implementations commonly utilize JSON instead of XML. Ajax is not a technology, but rather a programming concept. HTML and CSS can be used in combination to mark up and style information. The webpage can be modified by JavaScript to dynamically display—and allow the user to interact with the new information. The built-in XMLHttpRequest object is used to execute Ajax on webpages, allowing websites to load content onto the screen without refreshing the page. Ajax is not a new technology, nor is it a new language. Instead, it is existing technologies used in a new way.

Important References

S. No.	References	Link	Checkbox
1	W3 School	Reference1	☐
2	Wikipedia	Reference2	☐
3	Ajax Tutorial	Reference3	☐

Recorded Sessions

Short Medium Long

S. No.	Title	Length	Link	Checkbox
1	How to Get Started With AJAX	AJAX Tutorial For Beginners	Learn AJAX	PHP	JavaScript	3:54 min	Link	☐
2	What is Ajax?	10:02 min	Link	☐
3	How Ajax Works? with Real Example	3:05 min	Link	☐

Home

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

Important References

S. No.	References	Link	Checkbox
1	W3 School	Reference1	☐
2	Wikipedia	Reference2	☐
3	CSS Tutorial	Reference3	☐

Recorded Sessions

Short Medium Long

S. No.	Title	Length	Link	Checkbox
1	LEARN CSS IN 10 MINUTES - 2020	10:08 min	Link	☐
2	Learn CSS in 12 Minutes	12:10 min	Link	☐
3	CSS explained in 5 minutes	8:15 min	Link	☐

Home

The HyperText Markup Language, or HTML 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 (CSS) and scripting languages such as JavaScript. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags directly introduce content into the page. Other tags surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

Important References

S. No.	References	Link	Checkbox
1	W3 School	Reference1	☐
2	Wikipedia	Reference2	☐
3	HTML & CSS:5th Edition	Reference3	☐

Recorded Sessions

Short Medium Long

S. No.	Title	Length	Link	Checkbox
1	Orderd & Unorderd List	4:05 min	Link	☐
2	Creating a Table	4:12 min	Link	☐
3	Adding Image to Web Page	1:42 min	Link	☐

Home

Java is a high-level, class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible. It is a general-purpose programming language intended to let application developers write once, run anywhere (WORA), meaning that compiled Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture. The syntax of Java is similar to C and C++, but has fewer low-level facilities than either of them. The Java runtime provides dynamic capabilities (such as reflection and runtime code modification) that are typically not available in traditional compiled languages. As of 2019, Java was one of the most popular programming languages in use according to GitHub, particularly for client-server web applications, with a reported 9 million developers. Java was originally developed by James Gosling at Sun Microsystems (which has since been acquired by Oracle) and released in 1995 as a core component of Sun Microsystems' Java platform. The original and reference implementation Java compilers, virtual machines, and class libraries were originally released by Sun under proprietary licenses. As of May 2007, in compliance with the specifications of the Java Community Process, Sun had relicensed most of its Java technologies under the GPL-2.0-only license. Oracle offers its own HotSpot Java Virtual Machine, however the official reference implementation is the OpenJDK JVM which is free open-source software and used by most developers and is the default JVM for almost all Linux distributions.

Important References

S. No.	References	Link	Checkbox
1	W3 School	Reference1	☐
2	Wikipedia	Reference2	☐
3	IIT KANPUR : Java Notes	Reference3	☐

Recorded Sessions

Short Medium Long

S. No.	Title	Length	Link	Checkbox
1	Java In 5 Min	5:12 min	Link	☐
2	Basics Of Java	8:44 min	Link	☐
3	Java Syntax	8:50 min	Link	☐

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions. Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web. Over 97% of websites use it client-side for web page behavior, often incorporating third-party libraries. Most web browsers have a dedicated JavaScript engine to execute the code on the user's device. As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM). The ECMAScript standard does not include any input/output (I/O), such as networking, storage, or graphics facilities. In practice, the web browser or other runtime system provides JavaScript APIs for I/O. JavaScript engines were originally used only in web browsers, but they are now core components of other software systems, most notably servers and a variety of applications.

Important References

S. No.	References	Link	Checkbox
1	W3 School	Reference1	☐
2	Wikipedia	Reference2	☐
3	JavaScript For impatient programmers	Reference3	☐

Recorded Sessions

Short | Medium | Long

S. No.	Title	Length	Link	Checkbox
1	Simple JavaScript Slideshow	4:58 min	Link	☐
2	Easiest JavaScript Game Ever	8:25 min	Link	☐
3	JavaScript tutorial for Beginners	10:42 min	Link	☐

Type here to search   91°F Partly sunny   ENG IN   3:27 PM 9/11/2021

Python is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation. Its language constructs as well as its object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects. Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured (particularly, procedural), object-oriented and functional programming. It is often described as a "batteries included" language due to its comprehensive standard library. Guido van Rossum began working on Python in the late 1980s, as a successor to the ABC programming language, and first released it in 1991 as Python 0.9.0. Python 2.0 was released in 2000 and introduced new features, such as list comprehensions and a garbage collection system using reference counting. Python 3.0 was released in 2008 and was a major revision of the language that is not completely backward-compatible. Python 2 was discontinued with version 2.7.18 in 2020.

Important References

S. No.	References	Link	Checkbox
1	W3 School	Reference1	☐
2	Wikipedia	Reference2	☐
3	Learn Python : 7th Edition	Reference3	☐

Recorded Sessions

Short | Medium | Long

S. No.	Title	Length	Link	Checkbox
1	What is Python	4:07 min	Link	☐
2	Learn Python in 5 min	5:12 min	Link	☐
3	Make a Clock using Python	4:28 min	Link	☐

Type here to search   91°F Partly sunny   ENG IN   3:30 PM 9/11/2021

Sub-Section - 3

Problem statement:

To implement these features: each course page must list all the reference books or study materials pertaining to the respective course. Each course must also contain the links of recorded sessions and the audio video files. Categorise the recorded sessions based on duration, the number of hours the lecture is delivered by giving the options of checkbox. On the click of the video duration, the recorded session should be displayed.

Approach and Explanation:

In this subsection we had to provide links for references as well as recorded sessions we used href = "video/reference link" this allows us to navigate to that particular reference and recorded sessions. Also we had to categorise videos on the basis of duration for which we made three categories short, medium and long and used bootstrap embedded javascript to obtain this functionality. Also we provided a check box that helps us in filtering videos.

Expected outcome:

Proper functionality to categorise and filter videos that consists of all the requirements mentioned in the problem statement for Subsection - 3.

Results:

We were able to achieve the requirements as mentioned in the problem statement: all course pages were fully ready with categorising and filtering functionalities.

Short Demo Video:

https://drive.google.com/file/d/1tA4VYjZ3SBZuEK9It5iJlDfVb5UeQAbE/view?usp=sharing

Sub-Section - 4

Problem statement:

To design the footer section of the web coursera, that provides the information for Terms, Privacy policy, Help and support, About us and Contact us.

Approach and Explanation:

In this subsection we had to design the sticky footer section that contains the links for privacy,terms and conditions ,LMS logo,contact us details etc. We used a bootstrap footer component to achieve this with navigable links for privacy, course pages, terms and conditions and also we had given copyright and contact us options.
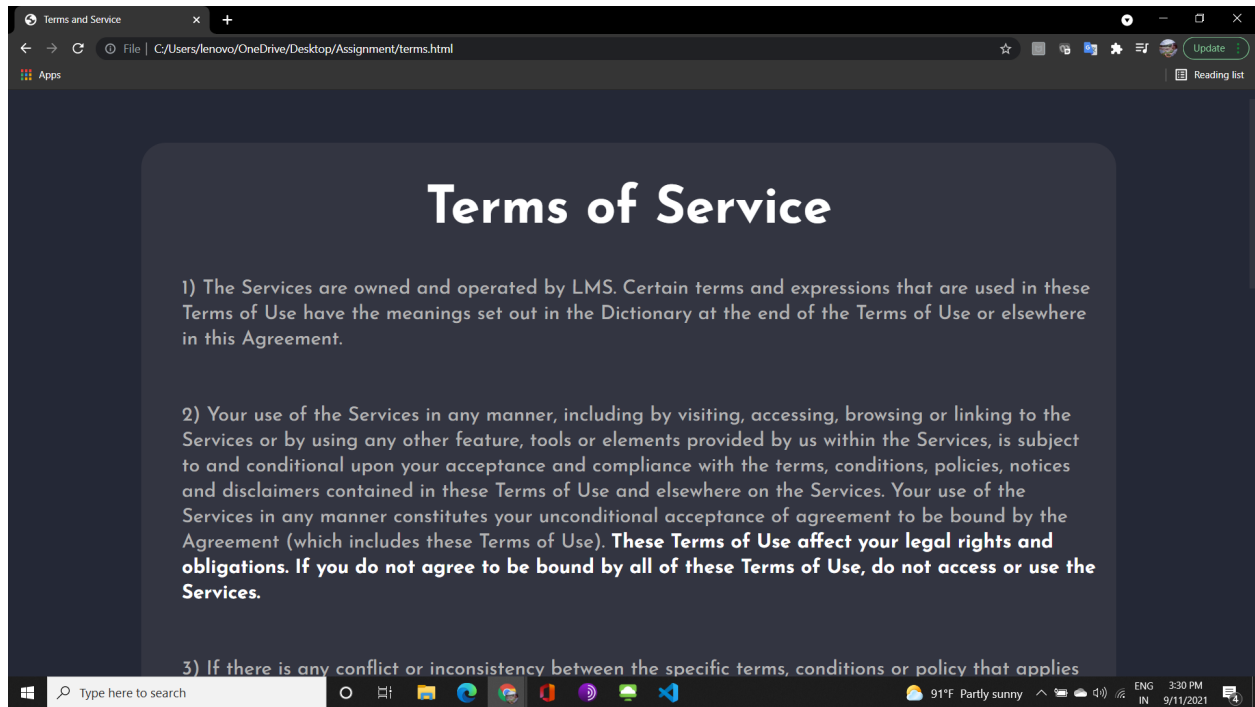
Expected outcome:

A footer section containing links to course pages,terms and privacy also contact us and copyright details.

Results:

We were able to achieve the requirements as mentioned in the problem statement. Footer section with all the requirements was properly achieved.

Screenshots:

Privacy Policy

Your privacy is important to us. It is the Web Coursera's policy to respect your privacy regarding any information we may collect from you. We only ask for personal information when we truly need it to provide a service to you. We collect it by fair and lawful means. We only retain collected information for as long as necessary to provide you with your requested service. What data we store, we'll protect within commercially acceptable means to prevent loss and theft, as well as unauthorized access, disclosure, copying, use or modification. We don't share any personally identifying information publicly or with third-parties, except when required to by law. Our app may link to external sites that are not operated by us. Please be aware that we have no control over the content and practices of these sites, and cannot accept responsibility or liability for their respective privacy policies. You are free to refuse our request for your personal information, with the understanding that we may be unable to provide you with some of your desired services. Your continued use of LMS will be regarded as acceptance of our practices around privacy and personal information. If you have any questions about how we handle user data and personal information, feel free to contact us.

This page is used to inform visitors regarding my policies with the collection, use, and disclosure of Personal Information if anyone decided to use my Service.

If you choose to use my Service, then you agree to the collection and use of information in relation to this policy. The Personal Information that I collect is used for providing and improving the Service. I will not use or share your information with anyone except as described in this Privacy Policy.

The terms used in this Privacy Policy have the same meanings as in our Terms and Conditions, which is accessible at Key Code Generator unless otherwise defined in this Privacy Policy.

Information Collection and Use

For a better experience, while using our Service, I may require you to provide us with certain personally identifiable information. The information that I request will be retained on your device and is not collected by me in any way.

The app does use third party services that may collect information used to identify you.

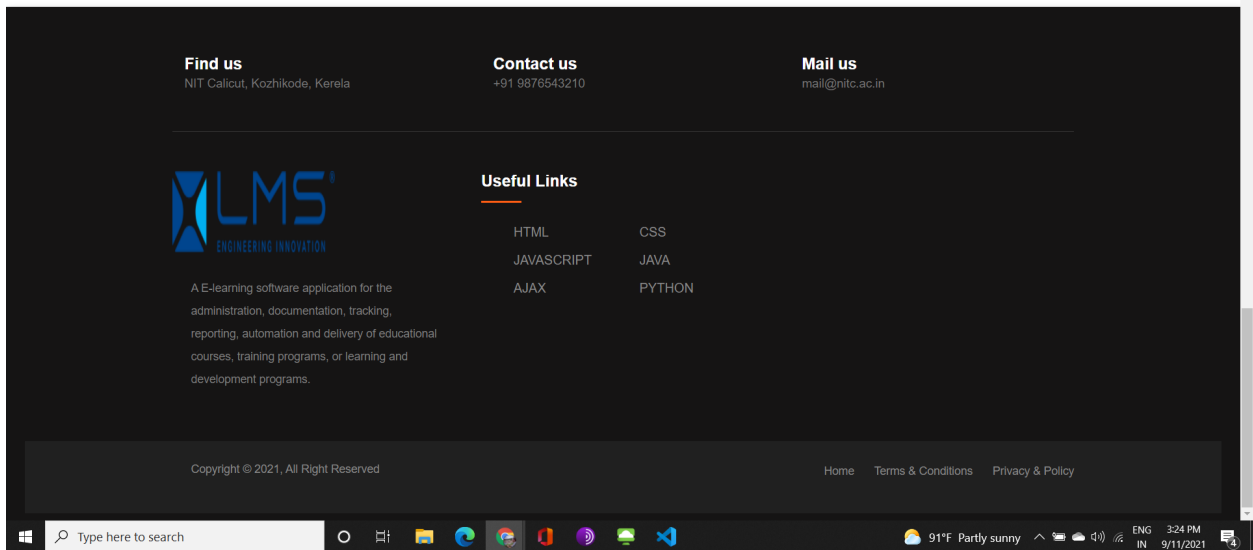Link to privacy policy of third party service providers used by the app

- Google Play Services
- AdMob

Log Data

I want to inform you that whenever you use my Service, in a case of an error in the app I collect data and information (through third party products) on your phone called Log Data. This Log Data may include information such as your device Internet Protocol ("IP") address, device name, operating system version, the configuration of the app when utilizing my Service, the time and date of your use of the Service, and other statistics.

Cookies

Cookies are files with a small amount of data that are commonly used as anonymous unique identifiers. These are sent to your browser from the websites that you visit and are stored on your device's internal

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A E-learning software application for the administration, documentation, tracking, reporting, automation and delivery of educational courses, training programs, or learning and development programs.

Useful Links

HTML	CSS
JAVASCRIPT	JAVA
AJAX	PYTHON

Home   Terms & Conditions   Privacy & Policy

SOURCE CODE LINK:

https://github.com/jaintushar19/Web_Devlopment_Assg1

TOKEN OF THANKS:

We would like to thank our guide for providing us an opportunity to sharpen our skills and implement the lessons taught in class in real time.