A Web-Based Project

Online Course Platform

"A Mini Project Report"

"BACHELOR OF COMPUER APPLICATION"

Submitted To -

JEEVANDEEP MAHAVIDHALAY

Chandmari – Varanasi

Submitted by–

Sahil Atahar   13222407082

Under the Guidance of

Mr. Rajesh Sir

<u>CERTIFICATE</u>

This is to certify that the project entitled, **"Online Course Platform"** presented by **Sahil Atahar** in partial fulfilment of the requirement for the Bachelor of Computer Applications at Jeevandeep Mahavidyalaya, Chandmari (UP), is a genuine work completed by the student under the guidance of **Mr. Rajesh Sir.** To the best of my knowledge, the issue embodied in the project has not been submitted to any other University/Institute for the award of any Degree.

Project Adviser

Mr. Rajesh Sir.

Assistant Professor

Date: __/__/____   _____

                                                                    Examiner

<u>DECLARATION</u>

I hereby declare that this project report titled "**Online Course Platform"** submitted in partial fulfilment of the degree of BCA, is a record of original work carried out by me under the supervision of **Mr. Rajesh Sir**, and has not formed the basis for the award of any other degree or diploma, in this or any other Institution or University. In accordance with ethical practices in reporting scientific information, due acknowledgements have been made wherever the findings of others have been cited.

Date: __/ __/ ____

_____

Sahil Atahar (13222407082)

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<u>Acknowledgement</u>

Abstract

The **"Online Course Platform"** is a revolutionary web-based tool aimed at offering comprehensive educational resources in an accessible and user-friendly manner. By leveraging modern web technologies, such as **HTML**, **CSS**, and **JavaScript**, our platform provides students with an immersive learning experience through curated video tutorials. With features like progress tracking and responsive design, the platform aims to enhance the accessibility and effectiveness of online education.

Introduction

The **"Online Course Platform"** marks a significant step forward in the realm of online education. In a world where digital learning is becoming increasingly prevalent, our platform seeks to bridge the gap between traditional classroom settings and virtual learning environments. By harnessing the power of technology, we aim to democratize education and empower learners of all backgrounds to pursue their academic goals.

Technical Implementation

The development of the **"Online Course Platform"** involves the utilization of various web technologies, including HTML, CSS, and JavaScript. These languages are employed to create the platform's user interface and implement its functionality. Additionally, JSON is used for data storage and retrieval, while external libraries like Font Awesome and Swiper enhance the platform's design and user experience.

Skills: -

1. HTML, CSS, and JavaScript
2. JSON
3. External libraries

<u>Hardware and Software Requirements</u>

To access the **"Online Course Platform"**, users require basic components:

1. Computer system with keyboard, mouse, monitor, and adequate processing capabilities.
2. Compatibility with modern web browsers (e.g., Google Chrome, Mozilla Firefox).
3. Accessible across desktops, laptops, tablets, and smartphones.

Functionality and Features

The **"Online Course Platform"** provides numerous features to enhance the learning experience.

1. Curated video tutorials covering diverse subjects.
2. Progress tracking tools for monitoring academic journey.
3. Dark mode for reduced eye strain.
4. Proper attribution to content creators.

<u>Code</u>

<u>Folder Structure: -</u>

```
├──css/
│   ├── course.css
│   ├── index.css
│   └── scrollbar.css
├──data/
│   └── data.json
├──dialog/
│   ├── index.js
│   └── style.css
├──images/
│   └── ...
├──js/
│   ├── course.js
│   └── index.js
├──index.html
├──course.html
├──favicon.ico
├──LICENSE
└──README.md
```

css/course.css

```css
@import
url("https://fonts.googleapis.com/css2?family=Poppins:wght@400;500&display=swap
");

:root {
    --clr-primary: #2a2a2a;
    --clr-secondary: #ffffff;
    --clr-accent: #6554c0;
    --clr-container: rgb(221, 221, 221);
    --sb-thumb-color: #a8a8a8;
}
.dark-theme {
    --clr-primary: #ffffff;
    --clr-secondary: #161a1d;
    --clr-container: #21272c;
    --sb-thumb-color: #ffffff;
}
html {
    scroll-behavior: smooth;
    scroll-padding-top: 2rem;
}
* {
    padding: 0;
    margin: 0;
    box-sizing: border-box;
    font-family: "Poppins", sans-serif;
}
body {
    background-color: var(--clr-secondary);
    transition: all 0.2s;
    -webkit-transition: all 0.2s;
    -moz-transition: all 0.2s;
    -ms-transition: all 0.2s;
    -o-transition: all 0.2s;
    -webkit-user-select: none;
```

```css
    -moz-user-select: -moz-none;
    -ms-user-select: none;
    user-select: none;
    max-height: 100vh;
    overflow: hidden;
    display: flex;
}
.sidebar {
    width: min(80vw, 500px);
    max-height: 100vh;
    min-height: 100dvh;
    display: flex;
    flex-direction: column;
    transition: all 0.3s;
    -webkit-transition: all 0.3s;
    -moz-transition: all 0.3s;
    -ms-transition: all 0.3s;
    -o-transition: all 0.3s;
    overflow-y: auto;
    background-color: var(--clr-secondary);
    overflow-x: hidden;
    border-right: 1px solid var(--clr-accent);

    /* For hiding sidebar */
    flex: 0;
    padding: 0;
    transform: translateX(-100%);
}
.sidebar.show {
    padding: 0 1rem;
    flex: 0.25;
    transform: translateX(0);
}
#close__sidebar__btn {
    width: 40px;
    aspect-ratio: 1;
    position: absolute;
    top: 1.3rem;
```

```css
        right: 1rem;

        font-size: 2rem;

        display: flex;

        justify-content: center;

        align-items: center;

        color: var(--clr-accent);

        display: none;

    }
    .back__option {

        width: 100%;

        display: flex;

        align-items: center;

        gap: 1rem;

        padding: 1rem;

        color: var(--clr-accent);

        font-weight: bold;

        padding-top: 2rem;

        cursor: pointer;

    }
    .back__option .icon {

        font-size: 1.1rem;

    }
    .progress__block {

        padding: 1rem;

    }
    .progress__bar {

        height: 12px;

        box-shadow: 0px 0px 2px var(--clr-accent);

        border-radius: 1rem;

        -webkit-border-radius: 1rem;

        -moz-border-radius: 1rem;

        -ms-border-radius: 1rem;

        -o-border-radius: 1rem;

    }
    .progress__value {

        width: 0%;

        height: 100%;

        border-radius: 1rem;
```

```css
        background-color: var(--clr-accent);
        -webkit-border-radius: 1rem;
        -moz-border-radius: 1rem;
        -ms-border-radius: 1rem;
        -o-border-radius: 1rem;
    }
    .progress__text {
        padding-top: 0.5rem;
        text-align: center;
        color: var(--clr-accent);
    }
    .topic__list {
        width: 100%;
        display: flex;
        flex-direction: column;
        gap: 1rem;
        margin-bottom: 1rem;
    }
    .list__item {
        display: flex;
        flex-direction: column;
        gap: 0.3rem;
        padding: 0.8rem;
        border-radius: 0.3rem;
        -webkit-border-radius: 0.3rem;
        -moz-border-radius: 0.3rem;
        -ms-border-radius: 0.3rem;
        -o-border-radius: 0.3rem;
        background-color: var(--clr-container);
        color: var(--clr-primary);
        padding-left: 1rem;
        cursor: pointer;
    }
    .list__item .title {
        text-overflow: ellipsis;
        overflow: hidden;
        display: -webkit-box;
        line-clamp: 1;
```

```css
        -webkit-line-clamp: 1;
        -webkit-box-orient: vertical;
    }
    .list__item a {
        font-size: 1rem;
        color: var(--clr-secondary);
        overflow: hidden;
        display: -webkit-box;
        line-clamp: 1;
        -webkit-line-clamp: 1;
        -webkit-box-orient: vertical;
        font-weight: bold;
    }
    .channel,
    .language {
        font-size: 0.8rem;
    }
    .body {
        width: 100%;
        min-height: 100vh;
        flex-direction: column;
        position: relative;
        transition: all 0.3s;
        -webkit-transition: all 0.3s;
        -moz-transition: all 0.3s;
        -ms-transition: all 0.3s;
        -o-transition: all 0.3s;
        background-color: var(--clr-secondary);
        flex: 1;
        overflow-y: auto;
    }
    .body.flex-0-75 {
        flex: 0.75;
    }
    .body__header {
        height: 60px;
        width: 100%;
        color: var(--clr-accent);
```

```css
    background-color: var(--clr-secondary);

    display: flex;

    align-items: center;

    padding: 0 1.5rem;

    gap: 1rem;

    overflow-x: auto;
}
#toggle__navbar__btn {
    background-color: transparent;

    color: inherit;

    border: none;

    outline: none;

    font-size: 1.4rem;

    cursor: pointer;
}
.navbar__title {
    padding-left: 2rem;
}
.video__section {
    width: 80%;

    color: var(--clr-primary);

    margin: auto;

    margin-bottom: 2rem;
}
.error__text:not(:empty) {
    text-align: center;

    color: var(--clr-accent);
}
.video {
    width: 100%;

    max-width: 100%;

    max-height: 80vh;

    aspect-ratio: 16 / 9;

    margin: auto;
}
.video__title {
    margin-top: 1rem;
}
```

```css
.video__description {
    margin-top: 0.5rem;
}
.options {
    width: 100%;
    padding-top: 2rem;
    display: flex;
    gap: 1rem;
    justify-content: space-between;
}
#prev__btn,
#next__btn {
    width: 150px;
    padding: 0.5rem;
    border: none;
    outline: none;
    font-size: 1rem;
    background-color: var(--clr-accent);
    color: #ffffff;
    border-radius: 0.3rem;
}
@media screen and (max-width: 768px) {
    #close__sidebar__btn {
        display: block;
    }
    .navbar__title {
        padding-left: 0.5rem;
        font-size: 1.5rem;
    }
    .sidebar {
        position: absolute;
        z-index: 2;
        top: 60px;
        min-height: 100vh;
    }
    .body__header {
        padding: 0rem 1rem;
    }
```

```css
    .video__section {
        width: 90%;
        aspect-ratio: auto;
    }
    #prev__btn,
    #next__btn {
        width: 50%;
    }
}
```

css/index.css

```css
@import
url("https://fonts.googleapis.com/css2?family=Poppins:wght@400;500&display=swap
");

:root {
    --clr-primary: #2a2a2a;
    --clr-secondary: #ffffff;
    --clr-accent: #6554c0;
    --clr-container: rgb(221, 221, 221);
    --sb-thumb-color: #a8a8a8;
}
.dark-theme {
    --clr-primary: #ffffff;
    --clr-secondary: #161a1d;
    --clr-container: #21272c;
    --sb-thumb-color: #ffffff;
}
html {
    scroll-behavior: smooth;
    scroll-padding-top: 2rem;
}
* {
    padding: 0;
    margin: 0;
    box-sizing: border-box;
    font-family: "Poppins", sans-serif;
}
body {
    background-color: var(--clr-secondary);
    transition: all 0.2s;
    -webkit-transition: all 0.2s;
    -moz-transition: all 0.2s;
    -ms-transition: all 0.2s;
    -o-transition: all 0.2s;
    -webkit-user-select: none;
    -moz-user-select: -moz-none;
    -ms-user-select: none;
```

```css
        user-select: none;
}
/*  ========== Navbar CSS ========== */

.navbar {
    width: 100%;
    height: 50px;
    display: flex;
    justify-content: space-between;
    align-items: center;
    padding: 0 2rem;
    background-color: var(--clr-accent);
    position: sticky;
    top: 0;
    left: 0;
    z-index: 6;
    box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
    position: relative;
}
.brand__name {
    color: #ffffff;
}
#toggle__navbar__btn {
    background-color: transparent;
    border: none;
    outline: none;
    color: #ffffff;
    font-size: 1.5rem;
    display: none;
}
.nav__list {
    width: 70%;
    display: flex;
    align-items: center;
    list-style: none;
    gap: 2.5rem;
    transition: height 1s ease;
    -webkit-transition: height 1s ease;
```

```css
    -moz-transition: height 1s ease;
    -ms-transition: height 1s ease;
    -o-transition: height 1s ease;
}
.nav__list .list__item > * {
    text-decoration: none;
    color: #ffffff;
    font-weight: 500;
}
/*  ========== Swiper CSS ========== */
.swiper {
    width: 95%;
    max-width: 100%;
    aspect-ratio: 16 / 6;
    overflow: hidden;
    position: relative;
    display: flex;
    margin-top: 60px;
}
.swiper-slide {
    display: flex;
    justify-content: center;
    align-items: center;
}
.swiper-slide img {
    height: 100%;
    max-height: 100%;
    object-fit: contain;
}
.swiper-button-next,
.swiper-button-prev {
    color: var(--clr-primary);
    font-weight: bold;
    font-size: 1rem;
}
/*  ========== Trending Section CSS ========== */

.courses__section {
```

```css
    width: 100%;
    display: flex;
    align-items: start;
    flex-direction: column;
    gap: 1.5rem;
    padding: 2rem;
}
.section__title {
    color: var(--clr-primary);
}
.courses__cards {
    width: 100%;
    display: flex;
    align-items: center;
    flex-wrap: wrap;
    gap: 1.5rem;
}
.courses__section .card {
    width: 250px;
    aspect-ratio: 1;
    background-color: var(--clr-container);
    border-radius: 0.5rem;
    -webkit-border-radius: 0.5rem;
    -moz-border-radius: 0.5rem;
    -ms-border-radius: 0.5rem;
    -o-border-radius: 0.5rem;
    transition: all 0.1s;
    -webkit-transition: all 0.1s;
    -moz-transition: all 0.1s;
    -ms-transition: all 0.1s;
    -o-transition: all 0.1s;
    display: flex;
    flex-direction: column;
    justify-content: space-evenly;
    align-items: center;
    position: relative;
    cursor: pointer;
}
```

```css
.courses__section .card:hover {
    transform: scale(1.03);
    -webkit-transform: scale(1.03);
    -moz-transform: scale(1.03);
    -ms-transform: scale(1.03);
    -o-transform: scale(1.03);
}
.complete__mark:not(:empty) {
    position: absolute;
    top: 0rem;
    left: 0rem;
    background-color: var(--clr-accent);
    border-radius: 0.5rem 0 0.5rem 0;
    -webkit-border-radius: 0.5rem 0 0.5rem 0;
    -moz-border-radius: 0.5rem 0 0.5rem 0;
    -ms-border-radius: 0.5rem 0 0.5rem 0;
    -o-border-radius: 0.5rem 0 0.5rem 0;
    padding: 0.2rem;
    color: #ffffff;
}
.card__image {
    max-width: 100%;
    height: 70%;
    object-fit: contain;
}
.card__title {
    font-size: 1.3rem;
    font-weight: 500;
    color: var(--clr-primary);
}
@media screen and (max-width: 600px) {
    .swiper {
        width: 100%;
        height: 25vh;
        margin-top: 1rem;
    }
    .swiper-slide img {
        width: 100%;
```

```css
        /* object-fit: cover; */
    }
    .navbar {
        padding: 0rem 1rem;
    }
    #toggle__navbar__btn {
        display: block;
    }
    .nav__list {
        width: 100%;
        position: absolute;
        flex-direction: column;
        top: 100%;
        left: 0;
        background-color: var(--clr-accent);
        gap: 1rem;
        padding-bottom: 1rem;
        overflow: hidden;
        transition: all 0.2s ease;
        -webkit-transition: all 0.2s ease;
        -moz-transition: all 0.2s ease;
        -ms-transition: all 0.2s ease;
        -o-transition: all 0.2s ease;
        transform: translateX(-100%);
    }
    .nav__list.show {
        transform: translateX(0);
    }
    .list__item {
        width: 100%;
    }
    .list__item > * {
        display: block;
        width: 100%;
        text-align: center;
    }
}
@media screen and (max-width: 768px) {
```

```css
    .navbar {
        justify-content: space-between;
    }
    .nav__list {
        justify-content: end;
    }
    .courses__cards {
        justify-content: center;
    }
}
```

css/scrollbar.css

```css
:root {
    --sb-track-color: #232e33;
    --sb-size: 7px;
}
*::-webkit-scrollbar {
    width: var(--sb-size);
}
*::-webkit-scrollbar-track {
    border-radius: 7px;
}
*::-webkit-scrollbar-thumb {
    background: var(--sb-thumb-color);
    border-radius: 7px;
}


@supports not selector(::-webkit-scrollbar) {
    body {
        scrollbar-color: var(--sb-thumb-color);
    }
}
```

data/data.json

```json
[
    {
        "courseId": 1,
        "title": "HTML",
        "language": "Hindi & English",
        "poster": "html.png",
        "videos": [
            {
                "id": 1,
                "title": "HTML Tutorial For Beginners",
                "embed_url": "https://www.youtube.com/embed/BsDoLVMnmZs",
                "description": "Learn HTML in One Video: In this video, we will
see how to create beautiful websites using Html. HTML is the language used for
website design. This hindi course on html will teach you everything you need to
learn about html tags, lists, tables, seo etc.",
                "language": "Hindi",
                "channel": "codewithharry"
            },
            ...
        ]
    },
    ...
]
```

dialog/index.js

```javascript
const dialog = (function () {
  let element, dialog,okBtn;


  let animaArr = new Array(['fadeIn', 'fadeOut'], ['slideDown', 'slideUp']);
  let currAnimation = '';
  const getNeedelementent = () => {
    element = document.querySelector('.dialog-wrapper');
    dialog = element.querySelector('.dialog');
    okBtn = element.querySelector('.ok-btn');
  }


  const show = (options = {}) => {
    let {
      content = 'Please entry content',
      okText = 'ok',
      onOk = null,
      maskDisabled = false,
      animation = 1
    } = options;

    currAnimation = animation;
    const html = `
    <div class="dialog-wrapper fadeIn">
      <div class="dialog ${animaArr[currAnimation][0]}">
        <div class="icon"><i class="fa-solid fa-check"></i></div>
        <div class="content">${content}</div>
        <div class="buttons">
          <div class="btn ok-btn">${okText}</div>
        </div>
      </div>
    </div>
  `;
    document.body.innerHTML += html;
    getNeedelementent();
    bindEvent(onOk,maskDisabled);
    return element;
  }
```

```javascript
    const bindEvent = (onOk, maskDisabled) => {
      okBtn?.addEventListener('click', e => {
        hide();
        onOk && onOk();
      })
      if (maskDisabled) {
        element.addEventListener('click', e => {
          let target = e?.target;
          if (/dialog-wrapper/.test(target.className)) {
            hide();
          }
        })
      }
    }

    const hide = () => {
      element.classList.add('fadeOut');
      dialog.classList.add(`${animaArr[currAnimation][1]}`);
      setTimeout(() => {
        element.remove();
      }, 200);
    }
    return {
      show,
      hide
    }
  })();

  window.dialog = dialog;
```

dialog/style.css

```css
.dialog-wrapper {
    position: fixed;
    display: flex;
    justify-content: center;
    align-items: center;
    top: 0;
    left: 0;
    width: 100vw;
    height: 100vh;
    background-color: rgba(49, 49, 49, 0.5);
    color: #313131;
    font-size: 10px;
    -webkit-tap-highlight-color: transparent;
}
.dialog-wrapper.fadeIn {
    animation: fadeIn .2s ease;
}
.dialog-wrapper.fadeOut {
    animation: fadeOut .2s ease forwards;
}
.dialog-wrapper .dialog {
    position: relative;
    width: min(400px, 90vw);
    border-radius: .4em;
    background-color: #fff;
    box-sizing: border-box;
    overflow: hidden;
    box-shadow: 0 0 10px 1px rgba(0, 0, 0, 0.1);
    display: flex;
    flex-direction: column;
    justify-content: center;
}
.dialog-wrapper .dialog .icon {
    font-size: 3rem;
    width: max-content;
    aspect-ratio: 1;
    align-self: center;
```

```css
    border-radius: 50%;

    -webkit-border-radius: 50%;

    -moz-border-radius: 50%;

    -ms-border-radius: 50%;

    -o-border-radius: 50%;

    background-color: #2ecc71;

    display: flex;

    justify-content: center;

    align-items: center;

    color: white;

    margin-top: 1rem;

    padding: 1rem;
}
.dialog-wrapper .dialog .btn {
    cursor: pointer;
}
.dialog-wrapper .dialog .btn:active {
    background-color: #f4f4f4;
}
.dialog-wrapper .dialog .close-btn {
    position: absolute;

    top: 0;

    right: 0;

    padding: 10px;

    font-size: 1.8em;
}
.dialog-wrapper .dialog .content {
    padding: 1rem;

    font-size: 1.6em;

    text-align: center;
}
.dialog-wrapper .dialog.slideDown {
    animation: slideDown .2s ease;
}
.dialog-wrapper .dialog.slideUp {
    animation: slideUp .2s ease forwards;
}
.dialog-wrapper .dialog .buttons {
```

```css
        font-size: 1.6em;

        display: flex;

        flex-flow: row-reverse;

    }

    .dialog-wrapper .dialog .buttons .btn {

        flex: 1;

        padding: 15px;

        text-align: center;

        border-top: 1px solid #ebebeb;

    }

    @keyframes slideDown {

        from {

            transform: translateY(-3em);

        }


        to {

            transform: translateY(0);

        }

    }

    @keyframes slideUp {

        from {

            transform: translateY(0);

        }


        to {

            transform: translateY(-3em);

        }

    }

    @keyframes fadeIn {

        from {

            opacity: .5;

        }


        to {

            opacity: 1;

        }

    }

    @keyframes fadeOut {
```

```css
    from {
        opacity: 1;
    }

    to {
        opacity: 0;
    }
}
```

js/course.js

```javascript
const toggleNavbarBtn = document.querySelector("#toggle__navbar__btn")

const sidebar = document.querySelector(".sidebar")

const sidebarList = document.querySelector(".topic__list")

const progressValue = document.querySelector(".progress__value")

const progressText = document.querySelector(".progress__text")

const homeOption = document.querySelector(".back__option")

const body = document.querySelector(".body")

const navTitle = document.querySelector(".navbar__title")

const iframe = document.querySelector("#iframe")

const videoTitle = document.querySelector(".video__title")

const videoDesc = document.querySelector(".video__description")

const nextBtn = document.getElementById("next__btn")

const prevBtn = document.getElementById("prev__btn")


const searchParams = new URLSearchParams(window.location.search)
// Changing theme
let theme = localStorage.getItem("theme")
if (theme === "dark") {
    document.body.classList.add("dark-theme")
}
// Function to read JSON file asynchronously
const readJSONFile = async () => {
    let data
    try {
        let urlArray = window.location.href.split("/")
        urlArray.pop()
        urlArray.push("data", "data.json")
        let jsonUrl = urlArray.join("/")
        data = await fetch(jsonUrl).then((respond) => respond.json())
    } catch {
        console.log("JSON file reading error")
    }
    return data
}
// Retrieve the current course ID from local storage
const currentCourseId = searchParams.get("id")
let data = await readJSONFile()
```

```javascript
let cCourse = data.filter((course) => course.courseId == currentCourseId)[0]
// Initialize variables for course management
let index = 0
let cVideoData = cCourse.videos[index]
let progress = 0
// Function to change the video based on the given index
const changeVideo = (index) => {
    cVideoData = cCourse.videos[index]
    // Update the video player and related information
    iframe.src = cVideoData.embed_url
    videoTitle.textContent = cVideoData.title
    videoDesc.textContent = cVideoData.description

    // Update the text of the next button based on the index
    if (index == cCourse.videos.length - 1) {
        nextBtn.textContent = "Finish"
    } else {
        nextBtn.textContent = "Next"
    }
}
// Putting Course nav title
navTitle.textContent = cCourse.title
// Putting first video url
changeVideo(index)
// Adjusting main body content height
if (window.innerWidth > 768) {
    body.classList.add("flex-0-75")
}
// Toggle Navbar when toggleNavbarBtn is clicked
toggleNavbarBtn.addEventListener("click", () => {
    const isMobile = window.innerWidth < 768
    sidebar.classList.toggle("show")
    if (!isMobile) {
        body.classList.toggle("flex-0-75")
    }
})
// Redirect to the home page when homeOption is clicked
homeOption.addEventListener("click", () => {
```

```javascript
        let urlArray = window.location.href.split("/")
        urlArray.pop()
        urlArray.push("index.html")
        let newUrl = urlArray.join("/")
        window.location.href = newUrl
    })
    // Adding Sidebar topics
    sidebarList.innerHTML = ""
    cCourse.videos.forEach((video, index) => {
        sidebarList.innerHTML += `<li class="list__item" id="list__item${index}">
                    <h4 class="title">${video.title}</h4>
                    <p class="language">Language : ${video.language}</p>
                </li>`
    })
    // Handling click on sidebar topics
    document.querySelectorAll(`.list__item`).forEach((item, itemIndex) =>
        item.addEventListener("click", (e) => {
            index = itemIndex
            changeVideo(index)
        })
    )
    function btnClick(e) {
        // Check if the button clicked has an id of 'next__btn'
        if (e.target.id === "next__btn") {
            // Increment progress if the current index is within the video length
            if (index < cCourse.videos.length - 1) {
                progress++
                let percent
                if (progress > cCourse.videos.length) {
                    percent = 100
                } else {
                    percent = (progress / cCourse.videos.length) * 100
                }
                progressValue.style.width = `${percent}%`
                progressText.textContent = `${Math.floor(percent)}% Completed`
            }
            // Check if there are more videos to navigate to
            if (index < cCourse.videos.length - 1) {
```

```
            index++
        } else {
            // Check if the progress is 50% or more
            if ((progress / cCourse.videos.length) * 100 >= 50) {
                let userData = JSON.parse(localStorage.getItem("userData")) ||
{
                    completedCourses: [],
                }
                userData.completedCourses.push(cCourse.title)
                localStorage.setItem("userData", JSON.stringify(userData))
                // Display a dialog indicating completion and redirect to home
                window.dialog.show({
                    content: `You have completed the ${cCourse.title} Course`,
                    okText: "Go to Home",
                    onOk: () => {
                        let urlArray = window.location.href.split("/")
                        urlArray.pop()
                        urlArray.push("index.html")
                        let newUrl = urlArray.join("/")
                        window.location.href = newUrl
                    },
                })
            } else {
                // Display an error message if progress is less than 50%
                document.querySelector(".error__text").textContent =
                    "You should complete at least 50% of the Course"
                return
            }
        }
    } else {
        // Check if there are previous videos to navigate to
        if (index > 0) {
            index--
        } else {
            return
        }
    }
    // Update the video based on the current index
```

```javascript
        changeVideo(index)
    }
    // setting next btn click
    nextBtn.addEventListener("click", (e) => btnClick(e))
    prevBtn.addEventListener("click", (e) => btnClick(e))
    // Handling resizing
    window.addEventListener("resize", () => {
        const isMobile = window.innerWidth < 768
        if (isMobile) {
            sidebar.classList.remove("show")
            body.classList.remove("flex-0-75")
        } else {
            sidebar.classList.add("show")
            body.classList.add("flex-0-75")
        }
    })
```

js/index.js

```javascript
const trendingSection = document.getElementById("trending__cards")
const allCoursesSection = document.getElementById("all__courses__cards")
const toggleNavbarBtn = document.getElementById("toggle__navbar__btn")
const toggleThemeBtn = document.getElementById("theme__toggle__btn")

// Variables
let data
let userData = JSON.parse(localStorage.getItem("userData"))
let isDarkTheme = false

// Changing theme
let theme = localStorage.getItem("theme")
if (theme === "dark") {
    isDarkTheme = true
    document.body.classList.add("dark-theme")
    toggleThemeBtn.innerHTML = '<i class="fa-regular fa-sun"></i>'
} else {
    toggleThemeBtn.innerHTML = '<i class="fa-regular fa-moon"></i>'
    localStorage.setItem("theme", "light")
}

// Reading JSON File
const readJSONFile = async () => {
    let data
    try {
        let urlArray = window.location.href.split("/")
        urlArray.pop()
        urlArray.push("data", "data.json")
        let jsonUrl = urlArray.join("/")
        data = await fetch(jsonUrl).then((respond) => respond.json())
    } catch {
        console.log("JSON file reading error")
    }
    return data
}


data = await readJSONFile()
```

```javascript
// Toggle Navbar
toggleNavbarBtn.addEventListener("click", () => {
    document.querySelector(".nav__list").classList.toggle("show")
})


// Adding trending corses
data.slice(1, 3).forEach((course) => {
    trendingSection.innerHTML += `<div class="card ${course.title}__Card">
                <div class="complete__mark">${
                    userData != null &&
                    userData?.completedCourses?.includes(course.title)
                        ? "Completed"
                        : ""
                }</div>
                <img src="./images/${course.poster}" alt="${
        course.title
    } image" class="card__image">
                <p class="card__title">${course.title}</p>
            </div>`
})


// Adding All courses
data.forEach((course) => {
    allCoursesSection.innerHTML += `<div class="card ${course.title}__Card">
                <div class="complete__mark">${
                    userData != null &&
                    userData?.completedCourses?.includes(course.title)
                        ? "Completed"
                        : ""
                }</div>
                <img src="./images/${course.poster}" alt="${
        course.title
    } image" class="card__image">
                <p class="card__title">${course.title}</p>
            </div>`
})


data.forEach((course) => {
```

```javascript
        let cards = document.querySelectorAll(`.${course.title}__Card`)
        cards.forEach((card) => {
            card.addEventListener("click", () => {
                localStorage.setItem("currentCourseId", course.courseId)
                window.location.href = `/course.html?id=${course.courseId}`
            })
        })
    })
})


const swiper = new Swiper(".swiper", {
    // Optional parameters
    loop: true,

    pagination: {
        el: ".swiper-pagination",
    },
    // Autoplay
    autoplay: {
        delay: 5000,
    },

    navigation: {
        nextEl: ".swiper-button-next",
        prevEl: ".swiper-button-prev",
    },
})


// Toggle Theme
toggleThemeBtn.addEventListener("click", (e) => {
    if (isDarkTheme) {
        toggleThemeBtn.innerHTML = '<i class="fa-regular fa-moon"></i>'
    } else {
        toggleThemeBtn.innerHTML = '<i class="fa-regular fa-sun"></i>'
    }
    isDarkTheme = !isDarkTheme
    localStorage.setItem("theme", isDarkTheme ? "dark" : "light")
    document.body.classList.toggle("dark-theme")
})
```

course.html

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0"
/>
        <link
            rel="stylesheet"
            href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.4.0/css/all.min.css"
            integrity="sha512-
iecdLmaskl7CVkqkXNQ/ZH/XLlvWZOJyj7Yy7tcenmpD1ypASozpmT/E0iPtmFIB46ZmdtAc9eNBvH0
H/ZpiBw=="
            crossorigin="anonymous"
            referrerpolicy="no-referrer"
        />
        <link
            rel="stylesheet"
            href="https://cdn.jsdelivr.net/npm/swiper@9/swiper-bundle.min.css"
        />
        <link rel="shortcut icon" href="favicon.png" type="image/x-icon" />
        <link rel="icon" href="favicon.png" type="image/x-icon" />
        <title>Capstone</title>
        <link rel="stylesheet" href="./dialog/style.css" />
        <link rel="stylesheet" href="./css/course.css" />
        <link rel="stylesheet" href="./css/scrollbar.css" />
    </head>

    <body>
        <aside class="sidebar show">
            <div class="sidebar__header">
                <div class="back__option">
                    <i class="fa-solid fa-arrow-left icon"></i>
                    <p>Go to homepage</p>
                </div>
                <div class="progress__block">
```

```html
                    <div class="progress__bar">
                        <div class="progress__value"></div>
                    </div>
                    <p class="progress__text">0% Completed</p>
                </div>
            </div>
            <ul class="topic__list"></ul>
        </aside>

        <div class="body">
            <header class="body__header">
                <button id="toggle__navbar__btn">
                    <i class="fa-solid fa-bars"></i>
                </button>
                <h2 class="navbar__title"></h2>
            </header>
            <section class="video__section">
                <p class="error__text"></p>
                <iframe
                    src=""
                    title="Capstone video player"
                    frameborder="0"
                    allowfullscreen
                    class="video"
                    id="iframe"
                ></iframe>
                <h1 class="video__title"></h1>
                <p class="video__description"></p>
                <div class="options">
                    <button id="prev__btn">Previous</button>
                    <button id="next__btn">Next</button>
                </div>
            </section>
        </div>
        <script src="./dialog/index.js"></script>
        <script src="./js/course.js" type="module"></script>
    </body>
</html>
```

index.html

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0"
/>
        <link
            rel="stylesheet"
            href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.4.0/css/all.min.css"
            integrity="sha512-
iecdLmaskl7CVkqkXNQ/ZH/XL1vWZOJyj7Yy7tcenmpD1ypASozpmT/E0iPtmFIB46ZmdtAc9eNBvH0
H/ZpiBw=="
            crossorigin="anonymous"
            referrerpolicy="no-referrer"
        />
        <link
            rel="stylesheet"
            href="https://cdn.jsdelivr.net/npm/swiper@9/swiper-bundle.min.css"
        />
        <link rel="shortcut icon" href="favicon.png" type="image/x-icon" />
        <link rel="icon" href="favicon.png" type="image/x-icon" />
        <title>Capstone</title>
        <link rel="stylesheet" href="./css/index.css" />
        <link rel="stylesheet" href="./css/scrollbar.css" />
        <script src="https://cdn.jsdelivr.net/npm/swiper@9/swiper-
bundle.min.js"></script>
        <script src="https://cdn.jsdelivr.net/npm/sweetalert2@11"></script>
    </head>

    <body>
        <!-- Navbar -->
        <nav class="navbar">
            <h2 class="brand__name">Capstone</h2>
            <ul class="nav__list">
                <li class="list__item"><a href="index.html">Home</a></li>
```

```html
            <li class="list__item">
                <a href="#trending_courses">Courses</a>
            </li>
            <li class="list__item"><a href="#">About</a></li>
            <li class="list__item"><a href="#">Contact</a></li>
            <li class="list__item">
                <div id="theme__toggle__btn">
                    <i class="fa-regular fa-moon"></i>
                </div>
            </li>
        </ul>
        <button id="toggle__navbar__btn">
            <i class="fa-solid fa-bars"></i>
        </button>
    </nav>

    <!-- Slider main container -->
    <div class="swiper">
        <!-- Additional required wrapper -->
        <div class="swiper-wrapper">
            <!-- Slides -->
            <div class="swiper-slide">
                <img src="./images/image1.jpg" alt="image 1" />
            </div>
            <div class="swiper-slide">
                <img src="./images/image2.jpg" alt="image 2" />
            </div>
            <div class="swiper-slide">
                <img src="./images/image3.jpg" alt="image 3" />
            </div>
            <div class="swiper-slide">
                <img src="./images/image4.jpg" alt="image 4" />
            </div>
            <div class="swiper-slide">
                <img src="./images/image5.jpg" alt="image 5" />
            </div>
        </div>
        <!-- If we need pagination -->
```

```html
            <div class="swiper-pagination"></div>

            <!-- If we need navigation buttons -->
            <div class="swiper-button-prev"></div>
            <div class="swiper-button-next"></div>
        </div>

        <!-- Trending Courses Section -->
        <section class="courses__section" id="trending_courses">
            <h1 class="section__title">Trending Courses</h1>
            <div class="courses__cards" id="trending__cards"></div>
        </section>

        <!-- All Courses Section -->
        <section class="courses__section" id="all__courses">
            <h1 class="section__title">All Courses</h1>
            <div class="courses__cards" id="all__courses__cards"></div>
        </section>

        <script src="./js/index.js" type="module"></script>
    </body>
</html>
```

The source code for the **"Online Course Platform"** project is available for reference. You can access the repository containing the project's code on GitHub at the following URL:

GitHub URL: https://github.com/sahilatahar/Capstone

Output

Capstone

Home   Courses   About   Contact   ☾

Trending Courses

CSS

Completed

Javascript

All Courses

Completed

HTML

CSS

Completed

Javascript

Bootstrap

← Go to homepage

11% Completed

Javascript Introduction | Lecture 1 |...
Language : Hindi

Javascript - First Program Namast...
Language : Hindi

How JavaScript Works ? | Javascrip...
Language : Hindi

What is DOM (Document Object...
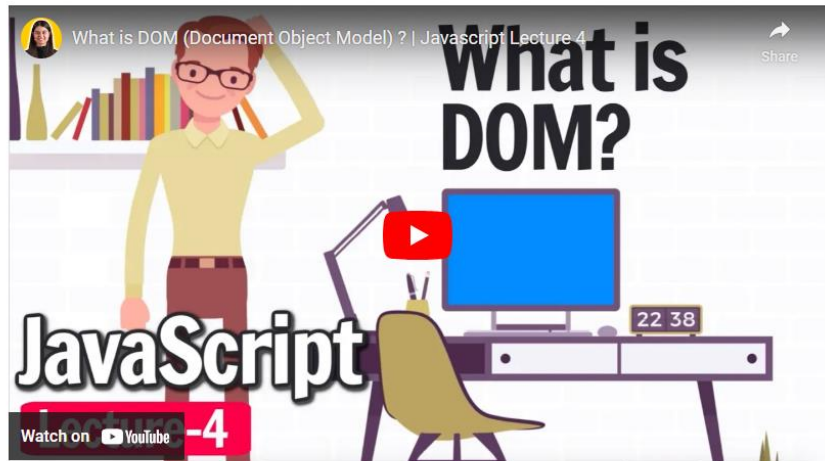Language : Hindi

Ways to add JavaScript to Web...
Language : Hindi

Javascript | Lecture 6,7 & 8...
Language : Hindi

Javascript | Lecture 9 & 10 combine...
Language : Hindi

☰ Javascript

What is DOM (Document Object Model) ? | Javascript Lecture 4

What is DOM (Document Object Model) ? | Javascript Lecture 4

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11% Completed

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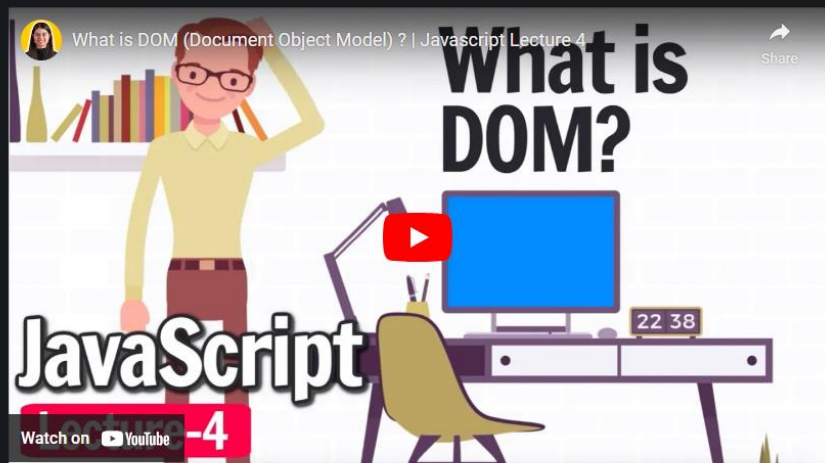Language : Hindi

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☰ Javascript

What is DOM (Document Object Model) ? | Javascript Lecture 4

What is DOM (Document Object Model) ? | Javascript Lecture 4

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<u>Conclusion</u>

In conclusion, the development of the **"Online Course Platform"** has been a testament to the power of collaboration and innovation. Despite facing various challenges along the way, our team has successfully delivered a robust and user-friendly platform that has the potential to revolutionize the field of online education. Moving forward, we remain committed to enhancing the platform's features and expanding its reach to serve an even wider audience.

Future Enhancements

While the current version of the **"Online Course Platform"** does not include plans for future enhancements, its existing features and functionality are designed to meet the needs of users without requiring additional updates. The platform is intended to provide a stable and reliable environment for accessing educational resources, with no plans for further development or modifications.

<u>About me</u>

As a web developer, I am committed to continuously learning and expanding my skill set. Currently, I am focused on mastering NextJS and TypeScript, aiming to leverage these technologies to create more efficient and scalable web applications. I am also actively seeking opportunities to collaborate on open-source projects, where I can contribute to the development community and gain valuable experience.

<u>Socials:</u>

Gmail: sahilatahar@gmail.com
GitHub: https://github.com/sahilatahar
LinkedIn: https://www.linkedin.com/in/sahilatahar
Link Tree: https://linktr.ee/sahilatahar

<u>Tech Stack:</u>

Frontend: HTML, CSS, SASS, JavaScript, React, React Router, Tailwind CSS, Redux
Backend: NodeJS, ExpressJS, JWT
Database: MongoDB, Firebase
Tools: Git, GitHub, VS Code, Prettier
Deployment: Netlify, GitHub Pages, Vercel
Programming Languages: C
Others: Markdown, Firefox, Chrome, Windows

<u>Top Repositories:</u>
Code-Sync: https://github.com/sahilatahar/Code-Sync
Real-Notes: https://github.com/sahilatahar/Real-Notes
Markdown2PDF: https://github.com/sahilatahar/markdown2pdf