Lectures	Curriculum
Lecture 1	Git and Github
Lecture 1	HTML
Lecture 2	HTML
	Assignment - 1
Lecture 3	CSS
Lecture 4	css
Lecture 5	CSS
Lecture 6	CSS
	Assignment - 3
Lecture 7	CSS
Lecture 8	CSS
Milestone - 1	Capstone Project

Lecture 9 Javascript - Introduction

	Assignment - 3
Lecture 10	Javascript Conditions
Lecture 11	JS- Loops
	Assignment - 4
Milestone - 2	Capstone Project

Lecture 12 JS - Strings, Arrays

Assignment - 5

Lecture 13	JS- Functions and Objects
Lecture 14	JS- Functions and Objects
	Assignment - 6
Lecture 15	JS- Events
Lecture 16	JS DOM
	Assignment - 7
Milestone - 3	Capstone Project
Lecture 17	Intro to async JS
Lecture 18	Event Loop
	Assignment - 8
Lecture 19	JS Callback Hell and Promises
Lecture 20	API Fetching, Axios

Assignment - 9

Milestone - 4

Capstone Project

Intro to React

Lecture 21

No Assignment

Lecture 22 Styling in React

Assignment - 10

Lecture 23 States

Lecture 24 Props

Assignment - 11

Lecture 25	Conditions in React
Lecture 26	Event handling
Lecture 27	Forms in React
	Assignment - 12
Milestone - 5	Capstone Project
Lecture 28	Lists in React
Lecture 29	Hooks
	Assignment - 13
Lecture 30	Context Hook
Lecture 31	React Routing
	Assignment - 14
Milestone - 6	Capstone Project
Lecture 32	Redux
Lecture 33	нос
	Assignment - 15
Milestone - 7	Capstone Project

Description

Version Control, push and cloning

Introduction to HTML HTML Tables

HTML Forms

Personal Portfolio - (Create a personal portfolio page showcasing your skills, projects, and information about yourself. Use HTML to structure the content and CSS for styling.)

Introduction to CSS
CSS height, width and units
CSS colors, Text, Fonts
CSS Backgrounds
CSS Selectors

CSS Box Model CSS Layouts

Flexbox and Grids

Animations and webkit

Blog Website -

Design a webpage to mention the places you have visited, movies you have watched, books you have read.

- * Include images for each item card and add hover and flip effect to the cards to display review of that place/movie/books.
- * Include Navigation Bar to scroll to the specific section movies/news/travel_places/books.
 - * Include footer section and embed a google map as well.

Media Queries, Responsive Web Design Bootstrap

Google Home Page- Clone

JS intro, Ways to include JS in HTML, 3 Identifiers Operators: Arithmetic, Comparison, Logical, Assignment. Practice exercises

Temperature Converter:

Build a temperature converter that allows users to convert between Celsius and Fahrenheit. Use the arithmetic operators (+, -, *, /) to perform the conversions.

Conditional Statements - (if, if-else, nested if, switch-case statements and ternary operator)

Control Flow - (for-loop, while, do-while)
Practice exercises

FizzBuzz:

Implement the classic FizzBuzz problem using a loop. Print numbers from 1 to 100, but replace multiples of 3 with "Fizz," multiples of 5 with "Buzz," and multiples of both 3 and 5 with "FizzBuzz."

Health Web Application -

Design a webpage to check your health status.

There should be 2 sections- Water Consumption in Liters, BMI calculator.

- * Section 1: Take input from user about no. of glasses of water intake, convert it to liters and display on screen.
- * Section 2: Take weight and height from user and calculate BMI and display the result (underweight/ overweight/ fit)
- * Include a slideshow (autoplay) using bootstrap to display ways to keep a healthy lifestyle with images in background
- * Include a footer section with an embedded map, feedback form and contact form.

Introduce strings and implementation, declaration, String Methods Introduce arrays and implementation, declaration, Array Methods for Each, for-of loop map, filter, reduce methods

Practice exercises

String Compression:

Create a function that takes a string as input and returns a compressed version of the string. For example, "aaabbbbcccc" would become "a3b4c4".

Define all types of functions, implementation practice Introduce objects and implementation, declaration, Methods to create objects (literal methods, constructor method) for-in loop,

Hoisting, Scope Closures his' keyword all, apply bind methods Write a JavaScript program which accept a number as input and insert dashes (-) between each two even numbers. For example if you accept 025468 the output should be 0-254-6-8.

Introduce events and trigger functions using events
Practice Exercises based on events and functions

Introduce DOM Model, ∃ierarchy explanation, nth child, targetting n Hangman Game:

Build a hangman game where users have to guess a word by guessing individual letters. Use functions and objects to manage the game's state and handle user input.

Real-Time To-Do List:

Build a simple to-do list application using arrays and DOM manipulation. Allow users to add new tasks, mark tasks as completed, and remove tasks from the list.

- *Include the Lecture and the time by till which task should be due.
- *Include a functionality to mark the task red if the due time is over.
- *Make the application interactive and add animations and bootstrap to make it look more appealing

Difference b/w sync and async JS, flexible JS setTimeout, setInterval, clearTimeout, clearInterval Event Loop Callstack, Web API, Callback Queue Callbacks, implementation using callstack and event loop

Stopwatch:

Build a simple stopwatch using JavaScript's Date object and the DOM. Add buttons to start, stop, and reset the timer.

Pyramd of Doom, Promises intro

implementation using promises and its methods (all, finally...), benefits of promises

Calling API using fetch and display responses(json format)

Introduce async await methods in JS

implementations using fetch api and axios

Random Quote Generator:

Create a random quote generator that fetches quotes from an external API. Every time a user clicks a button or performs a certain action, the app should display a new random quote. You can use a public quote API for this project. Promises can be used to handle the API calls and update the UI with the new quotes.

Quiz Game: Create an interactive quiz game with multiple-choice questions and keep track of the user's score.

- *Include Login / Logout functionality to store the user details (use localstorage)
- *Include functionality to keep track of previous users who played he game and their scores.
- *Add appreciation and rewarding (Good Job!, Amazing!...) messages on keeping a streak of correct answers
- *Display Bonus Reward when user acheives high-score.

React intro, Features of react
ES6 and JSX syntax,
Webpack, Babel
node installation,node npm, create firstapp
Purpose of all files and folders in react installation
JSX fragments, virtual DOM
Types of components in React
syntax of function based components

No Assignment

named and default export
Ways to include styles
Specifying Multiple Classes, CSS Modules

"Currency Converter:

Build a currency converter app that converts between different currencies using a currency exchange API. Apply styling to make the UI intuitive and user-friendly."

hooks introduction, states in react

props in react
Practice exercise

Note-taking App:

Build a note-taking application where users can create, edit, and delete notes. Use state to manage the list of notes and pass them as props to display in the UI.

Conditional Rendering Conditionally Applying a Style Event handling, Practice exercise

Form Handling, Practice exercise

Login/Authentication Form:

Design a login form that takes a username and password as inputs. Implement state to store the form data and an event handler to handle form submission. Use conditional rendering to display a welcome message once the user is logged in successfully.

Mental Health Awareness Application:

- *Generate a questionarre and take inputs
- *Switch between different screens and manage result as per user input,
- *If user is stressed->give ideas to relax / If user is agitated-> give some music/movie suggestion

List Rendering Controlled vs Uncontrolled Components useEffect, useRef useMemo,useCallback

Fetch API and organize data on the output screen

Lifting Up State, props drilling, useContext useContext Hook Custom hooks Navigation bar, Brower Router, Routes, Route Link, NavLink useNavigate Hook **Travel Guide with suggestions of famous restaurants**

Amazon - Clone

useReducer Hook, Redux install, setup useSelector and useDispatch hooks Higher Order Components in React

Amazon - Clone with Redux

Movie player with various sections and categories listed.

Projects

html, css ->toggle button project css ->animated css menu css -> image slider

html,css, js -> Signup/login page grid -> image gallery

html,css,Js ->groceries list

HTML,CSS-> Modern landing page like udemy js --> website color switcher

js-->Animated product card

js-->captcha generator html,css,js ->groceries list html,css,js --> coin tossed website

html,css,js -->Music website like spotify Mern -> Chat website Mern--> Shoe shopping website

website
Mern-->online voting system

Mern-->online resume builder

Mern-->health website

Mern-> Gym equipment & protein selling website
Mern>Food/clothes donation
Mern>Zoom clone

Mern-->blood donation

Mern->Job hiring website

Mern->HDFC Bank website

Mern->astrotalk website

Mern->library mangement
system

Mern->Animal grooming

	Mern->car rental website	
	Mern->Hotel Booking website	
	Mern-> E-learning platform	
	Mern->service booking	
nethods Manipulation methods, Query Selector manipulation Practice Exercises		