The WebDev Basic Learning Tasks will be taken over the course of 4 weeks, with each week encapsulating lectures along with a project to cap off the week's learning. At the end of week 4, a complete project needs to be submitted to ensure the completion of learning.

Week1:-

-HTML Basics
-HTML Forms
-HTML Tables
-CSS Basics
-CSS Flexbox

Mini Project:
1) Make a platform where students can discover and register for campus events, including workshops, seminars, and social gatherings.
2) Make an interactive event calendar using HTML tables. The calendar will display the days of the month in a table format and allow users to view and schedule events for specific dates.

Resources

● Html for beginners for a crash course → Traversy Media
   https://youtu.be/UB1O30fR-EE
● Learn HTML-Full course for beginners(2022) ->freeCodeCamp (Detailed)
   https://youtu.be/kUMe1FH4CHE

OR

● Complete HTML Tutorial in 1 Video in HINDI (2023) (If you prefer Hindi as the medium of instruction)
   Complete HTML Tutorial in 1 Video || in HINDI (2023)

DOCUMENTATION - W3SCHOOLS

Week2:-

-CSS Grid
-Media Queries
-Tailwind CSS
-JS Basics(Variables,Loops,Arrays Methods, Strings)

Mini Project:- Now we aim to enhance our existing project by implementing new concepts you came across this week and incorporating additional functionalities mentioned below to further improve its capabilities and user experience.

User Interface Enhancements:

Implement navigation controls to switch between months (previous/next buttons or dropdown menus).Provide a form or modal window to add or edit event details. Add features like event reminders, notifications, or color-coding for different types of events.

Responsiveness:
Apply responsive design principles to ensure the calendar displays well on different devices and screen sizes.Implement media queries or frameworks like Tailwind to create a mobile-friendly layout..

Resources

CSS

- CSS Crash Course for absolute beginners ->Traversy Media
▶CSS Crash Course For Absolute Beginners

- Flexbox crash course 2022 ->Traversy Media

https://www.youtube.com/watch?v=3YW65K6LcIA&t=2

- CSS Grid:-> Net Ninja ▶CSS Grid Tutorial
- CSS Grid Crash Course(2022) ->Traversy Media ▶ CSS Grid Layout Crash Course
- Media Queries -> ▶Learn CSS Media Query In 7 Minutes (WebDev Simplified)

- CSS Animations :- ▶CSS Animation Tutorial

- (Net Ninja Playlist):- CSS3 Animation & Transitions Crash Course

  (Traversy Media)

Week3:-

- JS DOM Manipulation   [JavaScript DOM Tutorial - YouTube](#)

- JS Objects and prototypes [Object Oriented JavaScript - YouTube](#)

Mini Project:- Replicate and customize the project discussed in the video and add the following additional features by your own understanding of DOM Manipulation and objects.
1) A custom filter for fiction and non-fiction books.
2) A rating system for each book.

Week4:-

- Asynchronous Javascript

https://www.youtube.com/playlist?list=PL4cUxeGkcC9jx2TTZk3IGWKSbtugYdrlu

Final Project: Putting it all together. Make a responsive front-end using HTML and CSS and add functionalities to the website using Javascript. You need to highlight two star features of your website that make use of Javascript.

JS

[Learn JavaScript - Full Course for Beginners](#)
[Namaste JavaScript - Season 2 - YouTube](#)
[Namaste 🙏 JavaScript - YouTube](#)
[JavaScript DOM Tutorial - YouTube](#)
[Object Oriented JavaScript - YouTube](#)
[Asynchronous JavaScript (2020 version) - YouTube](#)

PROJECT 1 - Calculator

Your challenge is to build out a calculator app and get it looking as close to the design as possible. You can use any tools you like to help you complete the challenge. So if you've got something you'd like to practice, feel free to give it a go.

Your users should be able to:
- See the size of the elements adjust based on their device's screen size
- Perform mathematical operations like addition, subtraction, multiplication, and division
- Adjust the color theme based on their preference
- Bonus: Have their initial theme preference checked using prefers-color-scheme and have any additional changes saved in the browser Download the project and go through the README.md file.

    This will provide further details about the project and help you get set up.

I have created a special starter pack for this project for you guys!

Download it and go through all the resources.

https://drive.google.com/drive/folders/1lpKQOdS_tYa8RoZspznDeyda9_-yyrEw?usp=sharing

PROJECT 2 - Job listings with filtering

Your challenge is to build out job listing with filtering.
You can use any tools you like to help you complete the challenge. So if you've got something you'd like to practice, feel free to give it a go.
We provide the data in a local data.json file, so you can use that to populate the content on the first load if you like.
Your users should be able to:

❖ Filter job listings based on the categories selected
❖ View the optimal layout for the interface depending on their device's screen size
❖ See hover and focus states for all interactive elements on the page

● Download the starter code. This will provide further details about the project.

● Design file is also provided just for reference but none of the project should be same of the design file, they are just for reference(unlike previous project).

I have created a special starter pack for this project for you guys!

Download it and go through all the resources.

https://drive.google.com/drive/folders/1SyG3-Oy00R_adT_bTXTpWWtE9FBksELL?usp=sharing

PROJECT 3 - URL shortening API landing page

Your challenge is to integrate with the shrtcode API to create shortened URLs and display them like in the designs. You also have complete control over which packages you use to do things like make HTTP requests or style your project.

Your users should be able to:
- Shorten any valid URL
- See a list of their shortened links, even after refreshing the browser
- Copy the shortened link to their clipboard in a single click
- Receive an error message when the form is submitted if: The input field is empty
- View the optimal layout for the interface depending on their device's screen size
- See hover and focus states for all interactive elements on the page

- Download the starter code. This will provide further details about the project.
- Design file is also provided just for reference but none of the project should be same of the design file, they are just for reference(unlike project 1).

I have created a special starter pack for this project for you guys!
Download it and go through all the resources.

https://drive.google.com/drive/folders/1fTafhGfQbxTUzb4IgAH2E59P_wqyi2jq?usp=sharing