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1.0 Essential Tools / Resources

- Devtools on Chrome, FF
- Lighthouse, and accessibility extensions
- Eslint, Prettier, extensions
- Code-review tips
- Perf reports
- Design Review
- Accessibility Reviews
- Testing Tools
- Official Documentation
- WCAG
- OSSAP security



2.0 Day wise Topics Checklist. (Each block is for 4 sessions of 2 hours duration)

Block 1	Block 2	Block 3
 Introduction. 	• Div, Span, Section, Article,	• Nav
 Introduction to web 	Aside	Forms
development.	 Thinking in HTML (pick a design 	Image
Components of web	and discuss how the HTML	 Figure
development.	structure should be)	 Video
 Introduction to web tools: 	• Link	Audio
Browsers, dev tool, vscode,	Button	Iframe
extensions.	 Debugging in browser 	• SVG
Intro to HTML.	Listing (UL, Ol, DL)	 Accessibility
Version of HTML.	 Creating multiple pages 	intro
 HTML Skeleton (doctype, 	 Table, mark menu small 	Canavs
HTML, Head, title).	Hands-on	 Geolocation
Folder structure.	 HTML validation 	 Drag and
 Naming convention. 	P-tags	Drop
Create your first HTML file and	 Exploring different layouts 	History
execute.	Optimizing layouts	
Hands-on.	Best practices for HTML	
Headings, header footer.	• Icons	

Block 4	Block 5	Block 6
 Storage Clipboard Web worker Fetch Service worker Introduction to CSS Why CSS CSS versions How to include CSS in HTML pages Creating the CSS files CSS naming convention Writing CSS: ID, class, selectors, tags, psudeo class, pseudo elements Hands-on: Creating first CSS CSS Font property CSS text property 	 CSS Specificity CSS selectors CSS Box property Margin/Padding Colors Background content position creating layouts optimizing css Media queries web testing of responsive design Visibility block, inline, vs block-inline 	 CSS debugging Tools to analyze CSS Optimizing CSS Introduction to SASS How to write maintainable CSS Intro to bootstrap Installation Pros and Cons Demo and Hands-on

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Block 7	Block 8
 Introduction to JavaScript 	Handling form data by JS
Why JS to be used	 Integration HTML, CSS, JS together
 How to include JS in the code 	 Perf issues with JS
HTML, CSS, and JS	JS loading
 Introduction to Webpack / package.json 	Modular JS
/ localhost	DOM manipulation with JS
 Setting up VS code with extensions 	Accessibility and JS
Naming convention	
• ES6+ features (Async JS, class, rest and	
spread, const, let, Objects , Map, etc)	
Handson	
Debugging	
 Accessibility, and performance 	
Block 9	Block 10
 Introduction to JQuery 	Introduction to Node.JS
How to use JQuery - Demo	 Native modules: HTTP, FS, Buffer,
Hands-on	Streams, OS, Network
 Creating application: fetch an API, 	Import, Export
 Creating application: Manipulate DOM 	Publishing package
Performance	

Block 11

- Responsive design
- Project review day
- Recap of Accessibility, perf, code guidelines, and security



3.0 Assignments

- Layout creation (s) using HTML and CSS
- Navigations
- Header
- Listing
- Thumbnails and content

4.0 Final project

- Responsive Food App delivery website
- Responsive Ecommerce website
- Responsive Netflix website

5.0 Evaluation Matrix

Description	Marks (max 100)
Class Interaction	10
 Class Assignment 	10
Capstone project	70
• Code Quality (HTML, CSS, JS, etc.)	10