



CODE
WITH US

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COMPUTER SCIENCE

WEB DESIGN USING HTML, CSS & JAVASCRIPT



LEVEL 1 - WEB DESIGN

DURATION - 5 WEEKS (1 TO 2 HRS/WK)

INTRODUCTION TO HTML
HTML DOCUMENT STRUCTURE
COMMON ELEMENTS AND ITEMS
HEADINGS AND ATTRIBUTES
IMAGE AND MEDIA HANDLING

SAMPLE PROJECT

- DESIGN A FASHION BLOG WITH IMAGES, TITLES, SUBTITLES AND MORE.

LEVEL 2 - WEB DESIGN

DURATION - 5 WEEKS (1 TO 2 HRS/WK)

INTRODUCTION TO HTML TABLES
HOW TO CREATE A TABLE
TABLE ROWS, DATA, HEADINGS, BORDERS
SPANNING COLUMNS AND ROWS
BASIC STYLING WITH CSS

SAMPLE PROJECT

- DESIGN A FESTIVAL SCHEDULE WITH TABLES TO OUTLINE EVENT SCHEDULES AND ACTIVITIES.



LEVEL 3 - WEB DESIGN

DURATION - 5 WEEKS (1 TO 2 HRS/WK)

HTML FORMS

TEXT INPUT

ADDING LABELS

PASSWORD, RANGE, CHECKBOX INPUT

SUBMIT FORM

SAMPLE PROJECT

- MAD LIBS, DESIGN A FORM TO COLLECT USER SPEECH INPUT TO BUILD A GAME.

LEVEL 4 - WEB DESIGN

DURATION - 5 WEEKS (1 TO 2 HRS/WK)

FIGURES AND FIGURE CAPTIONS

EMBEDDED MEDIA

SECTION AND ARTICLE TAGS

HEADER AND FOOTERS

NAVIGATION TAGS

SAMPLE PROJECT

- DESIGN A NEW YORK CITY WEBPAGE THAT USES SEMANTIC HTML TO KEEP IT VISUALLY ORGANIZED.



LEVEL 5 - WEB DESIGN

DURATION - 5 WEEKS (1 TO 2 HRS/WK)

INTRO TO CSS

CSS RULESET VS INLINE STYLE

INTERNAL STYLESHEET AND EXTERNAL STYLESHEET

LINKING CSS FILE

TYPE, UNIVERSAL, CLASS, ID, ATTRIBUTE, SPECIFICITY

FONT FAMILY, FONT SIZE, FONT WEIGHT

TEXT ALIGN, COLOR, BACKGROUND COLOR

OPACITY, BACKGROUND IMAGE, IMPORTANT

SAMPLE PROJECTS

- DESIGN A RECIPE SITE WITH A CSS TO STYLE THE PAGE.
- DESIGN A PHOTOGRAPHY PORTFOLIO SITE WITH CSS TO IMPROVE APPEARANCE.

LEVEL 6 - WEB DESIGN

DURATION - 5 WEEKS (1 TO 2 HRS/WK)

BOX HEIGHT AND WIDTH

BORDERS, BORDER RADIUS, PADDING, PADDING SHORTHAND, MARGIN

MARGIN COLLAPSE, AUTO, MIN/MAX HEIGHT AND WIDTH, OVERFLOW

POSITION, RELATIVE/ABSOLUTE/FIXED/STICKY, Z-INDEX, INLINE DISPLAY

DISPLAY BLOCK/INLINE-BLOCK, FLOAT, CLEAR

SAMPLE PROJECTS

- DESIGN A RESTAURANT SITE WITH MENU AND NUTRITIONAL FACTS
- DESIGN CORPORATE SITE FOR A DESIGN FIRM



LEVEL 7 - WEB DESIGN

DURATION - 5 WEEKS (1 TO 2 HRS/WK)

INTRO TO JAVASCRIPT
VARIABLES, IF STATEMENTS
FUNCTIONS AND SCOPE
ARRAYS

SAMPLE PROJECTS

- DESIGN AN INTERACTIVE ROCK, PAPER, SCISSORS GAME
- DESIGN A DIGITAL MAGIC EIGHT BALL GAME

LEVEL 8 - WEB DESIGN

DURATION - 7 WEEKS (1 TO 2 HRS/WK)

WHILE AND FOR LOOPS
DOM COMMANDS
FUNCTIONS ASSIGNED TO VARIABLES
CALLBACK FUNCTIONS
REDUCE, FOREACH, FILTER AND MAP FUNCTIONS
OBJECTS NAMING PROPERTIES
DOT NOTATION
OBJECTS AS ARGUMENTS
OBJECT METHODS
"THIS" KEYWORD
GET AND SET METHODS

SAMPLE PROJECTS

- DESIGN AN ADVENTURE GAME TO TRAVEL THROUGH A MAZE TO DISCOVER ITEMS AND AVOID THE MONSTER.
- CREATE AN INTERACTIVE QUIZ GAME WEBSITE.



TECHNOLOGY REQUIREMENTS

DESKTOP, LAPTOP OR CHROMEBOOK WITH MICROPHONE AND SPEAKER (CAMERA IS OPTIONAL)

MOUSE FOR EFFICIENT BROWSING

UPDATED WEB BROWSER (EXAMPLE; CHROME, FIREFOX, OR SAFARI)

HIGH-SPEED INTERNET CONNECTION

A PROJECTOR OR SMARTBOARD IN THE CLASSROOM

HEADPHONES ARE RECOMMENDED FOR THE STUDENTS TO EFFECTIVELY COMMUNICATE WITH TEACHERS IN ONLINE CLASSROOMS.

ACCESS TO [HTTPS://PORTAL.CODEWITHUS.COM](https://portal.codewithus.com)

*THE CLASSES ARE LECTURE STYLE, COMPLETION TIME MAY VARY BASED ON LEARNING PACE AND PRIOR KNOWLEDGE.

