80 Hours Sessions

03 Levels to Mastery over App & Web Development

App and Web **DEVELOPMENT**

Whether it is creating attractive websites or cool applications, our **App and Web Development** course has got you covered. Even if you have no or little experience, this course is a great boost towards moving ahead on your path of coding.
The course starts from basic awareness of web development through CSS and HTML further moving towards app development and finally to imbibing JavaScript into your websites and applications to make them more dynamic and attractive. It includes instrumental elements of web designing like text styling, colours and typography.
This exclusive level based, easy to grasp and detailed App and Web Development course is the perfect go-to solution if you want to master the art of coding.

Codevidhya's App & Web Development course - the stepping stone to your coding journey!

INR 5,640/month

8 sessions per month

Codevidhya®
Inspiring Education

10 month long course

Package Pricing

~~INR 56,400~~

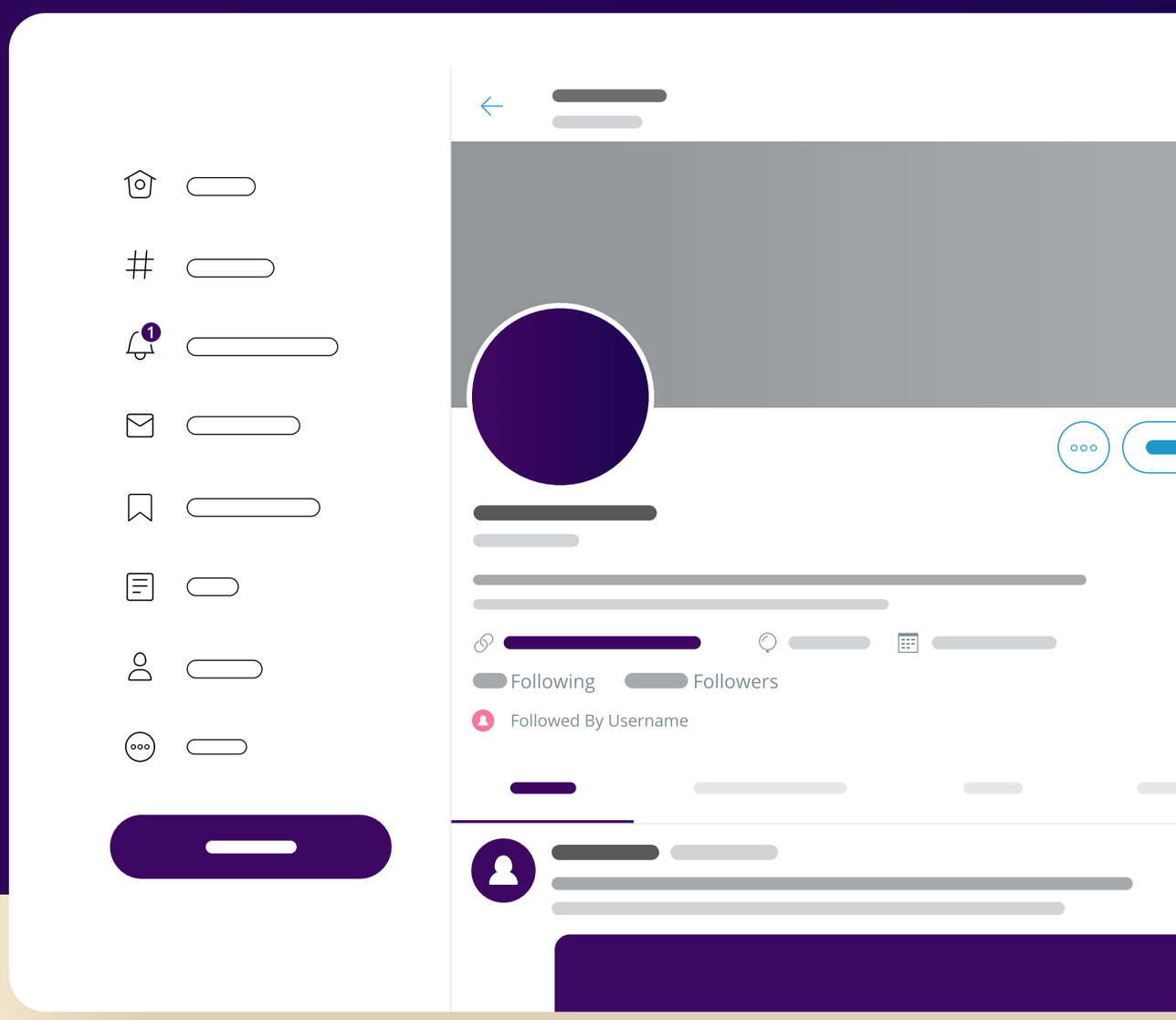
INR 50,760

Level 01 BEGINNER

Enter the World of

APP AND WEB

Development



Learning Outcome

- Your First Webpage
- Your First App

Course Duration
08 Hours

Session
01 - 08

Session	Curriculum	Outcome
01	Overview of Web and App Development	• Awareness on Website Development • Awareness on App Inventor Interface and App Development
02	Code Blocks	• Utilizing Code Blocks • Hello World App

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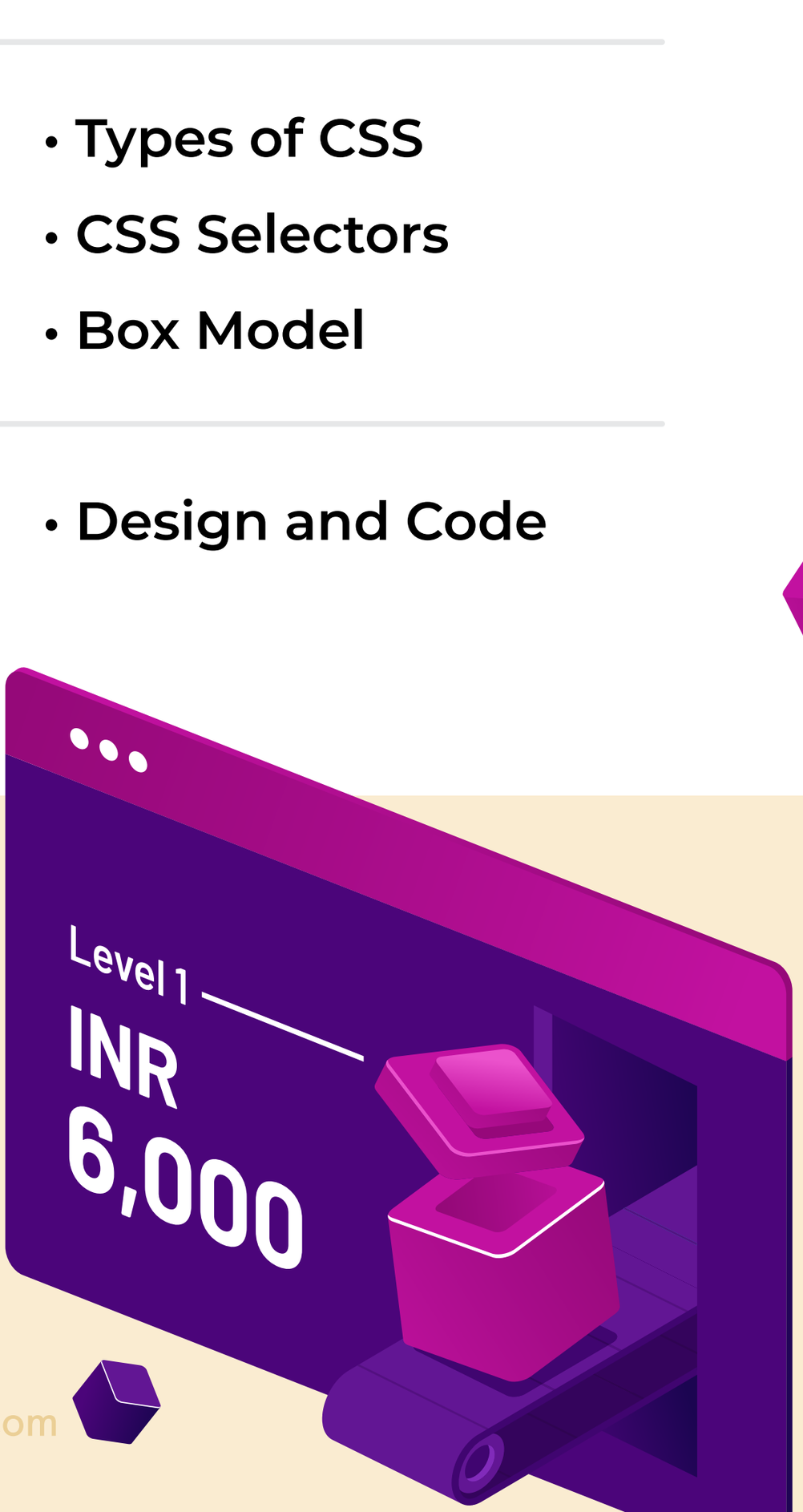
03	Button and Canvas Properties	• Draw on Android Screen • Digital Doodle App
04	Project : Pet on My Kitty	• Design and Code
05	Web Development Technologies	• Working with HTML • Heading and Paragraph Tag • Hyperlinks
06	HTML Properties	• Ordered List • Unordered List • List Properties • Image Tag
07	CSS Properties	• Types of CSS • CSS Selectors • Box Model
08	Project : School Webpage	• Design and Code

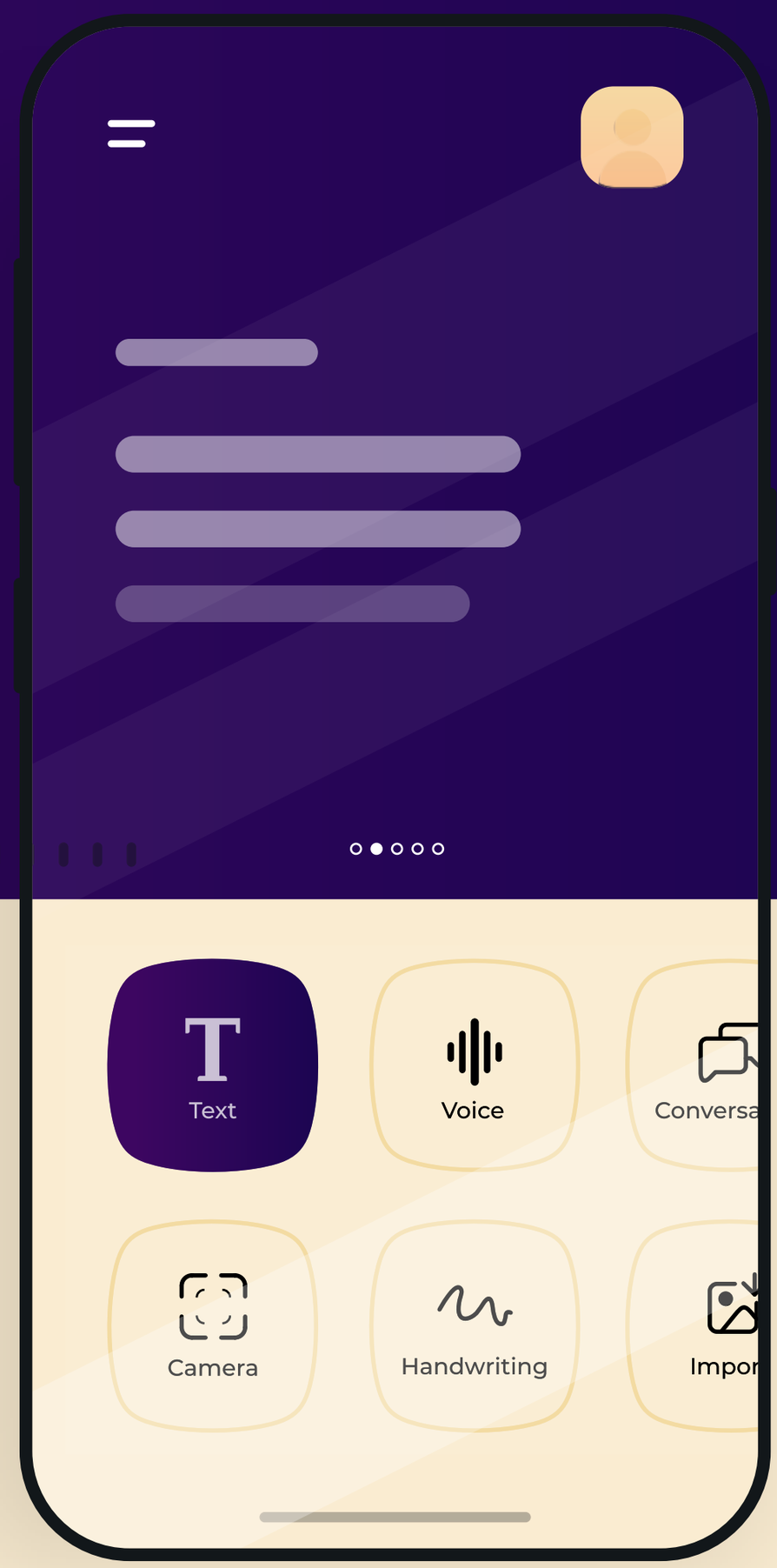
Skill Benefits

- Creative Thinking
- Logical Thinking



Level 02 **INTERMEDIATE**

MASTER
App Development



Course Duration
32 Hours

Session
09 - 40

Learning Outcome

- Your Own Custom App

Session	Curriculum	Outcome
09	App Inventor Overview	• Overview of App Inventor Interface • Overview of Code Blocks
10	Maths Block and its Application	• Notifier Component • Maths Project
11	Boolean, Logic and Conditionals Operation	• Logic Code Block • Mutator • if-then-else Conditionals

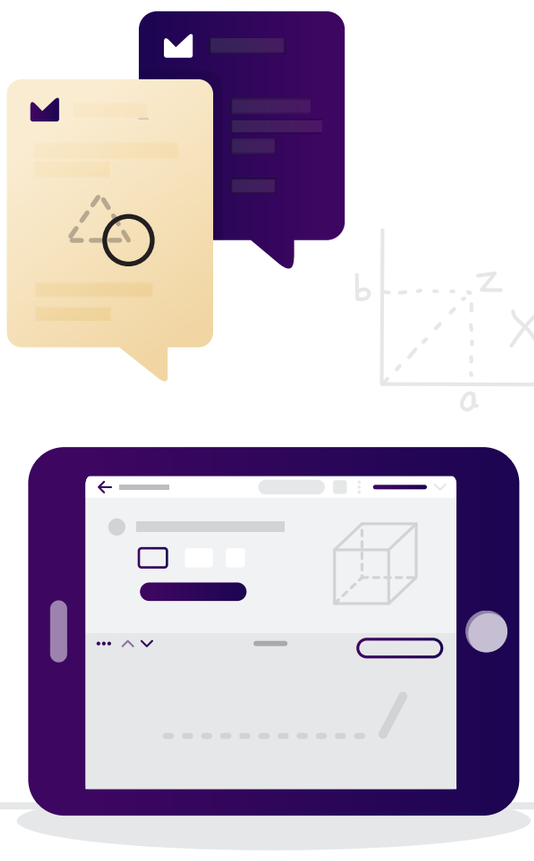
12 **Variables and List**

- Variable Declaration
- List Creation
- While-do Loop

13 **Loops : For loop and While loop**

- Looping through List
- Looping Project

14 15 **Project : Maths Blaster**



- Working with Lists of Dynamic (changing) Data.
- Coding Repeat Blocks (Iteration)
- Generating Random Numbers

16 17 **Project : Piano App**

- Start and Stop Music
- Play Multiple Instruments
- Design and Code

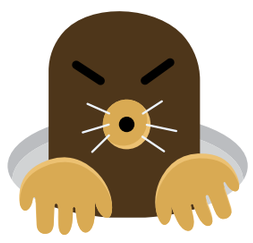
18 **Alarm Clock and Time picker Component**

- Setting Timer for Alarm
- Design Dialog Display
- Usage of Time picker

19 **Sound and Clock Components**

- Playing Sound File
- Alarm Clock App Design

20 **Mole Mash Game**



- Adding Canvas, Ball, and Image Sprites

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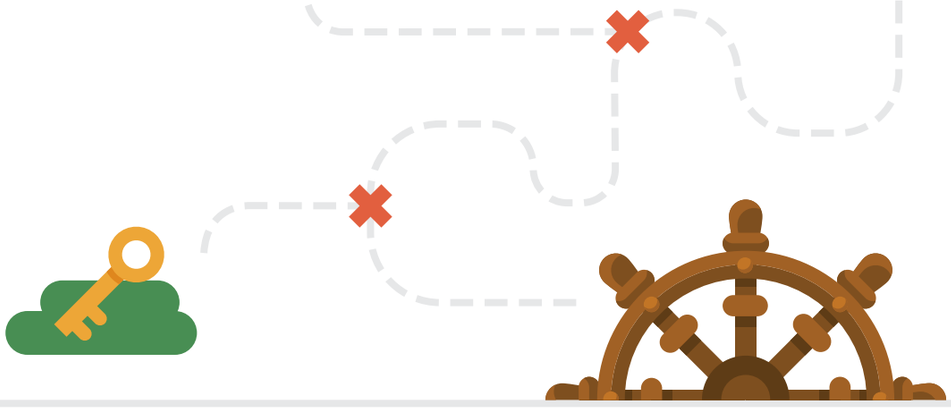
- Animate Objects through User Interaction

22

Find My Gold Game

- Use of Accelerometer Sensor Component
- Understanding of Notifier Component
- Use of Conditional Programs



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File Component and Notebook App

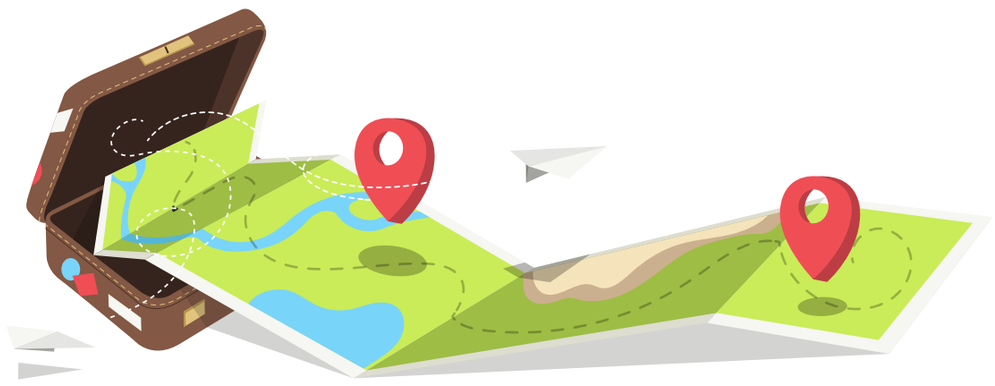
- Notes Input by User
- Saving File in the Android Devices
- Understanding Android Storage Structure

25

26

Tour Guide Game

- Design and Code Location Based App
- TinyDB Component to Store Data
- Uses of Multiple Screen and Value Passing



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Two Button App

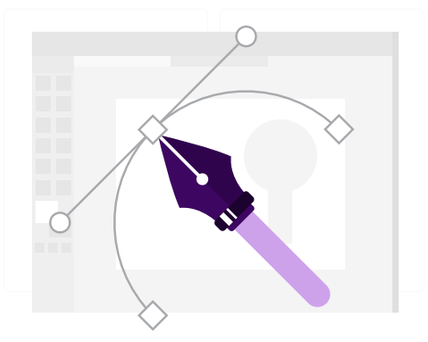
- Multiplayer Game
- CloudDB Component to Store Data

29

30

Sketch and Guess App

- CloudDB Component
- Boolean Operators
- Data Manipulation



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33

Talking Tom App

Design and Code

34

35

Shopping List App

- Design and Code

36

40

Fitness App

- Design and Code

Skill Benefits

- Enhanced Problem Solving Skills
- Increased Creativity
- Improved Computational Skills

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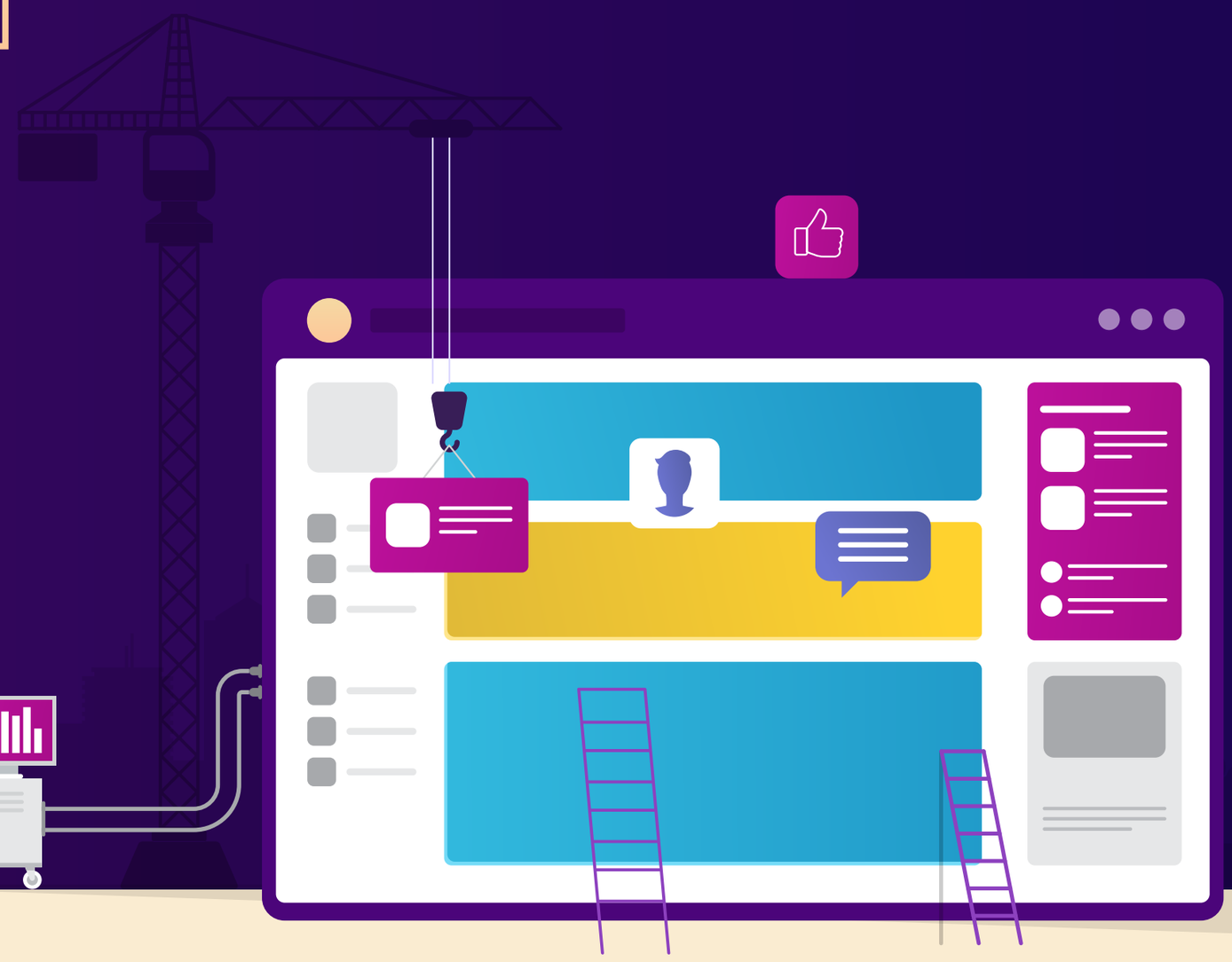
Level 03 **ADVANCED**

ADVANCED
Web Development



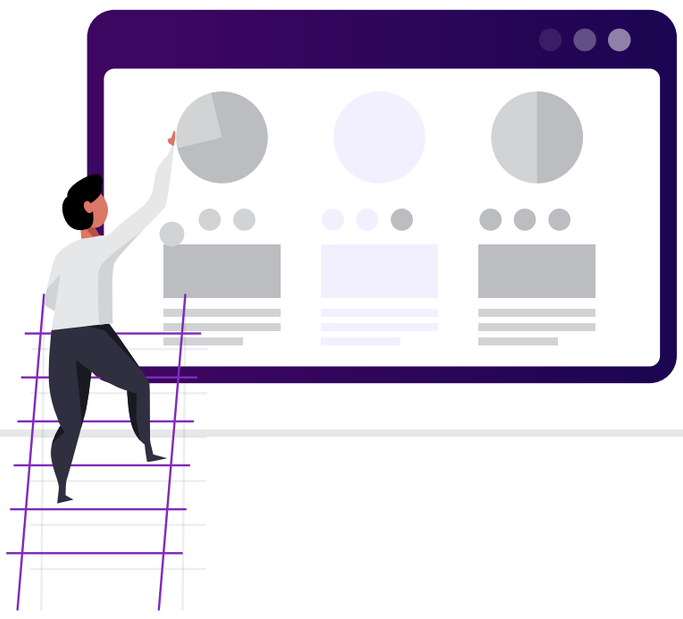
Learning Outcome

- Complete understanding of Web development
- Ability to use logic loops and conditionals to develop cool Projects.
- Developing website for Schools, COVID awareness, e-Commerce Business, etc.

Course Duration
40 Hours

Session
41 - 80

Session	Curriculum	Outcome
41	**Introduction to HTML**	• **Introduction to Web Development** • **Types of Elements** • **HTML Comments** • **Versions of HTML** • **Doctype Declaration**



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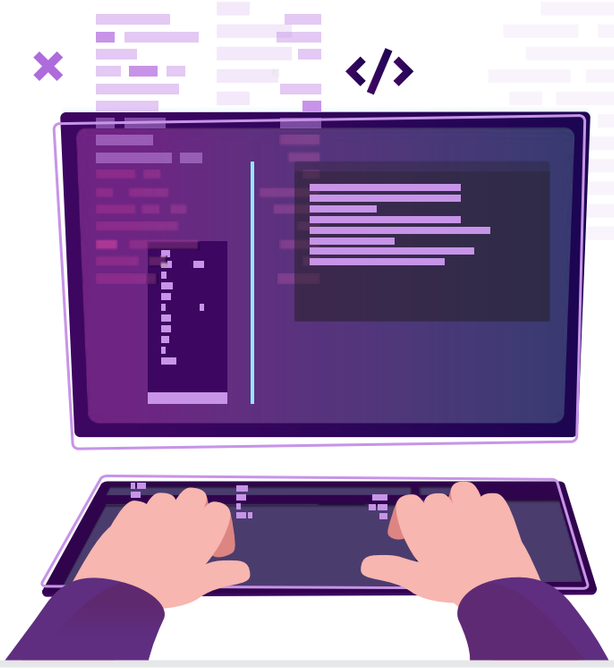
Some Common HTML Elements

- Headings, Paragraphs and Spans
- HTML Attributes
- Links
- Images

43

Lists



- Inline vs Block-level Elements Lists
- Ordered and Unordered List
- Numbering and Bullet Style for Lists

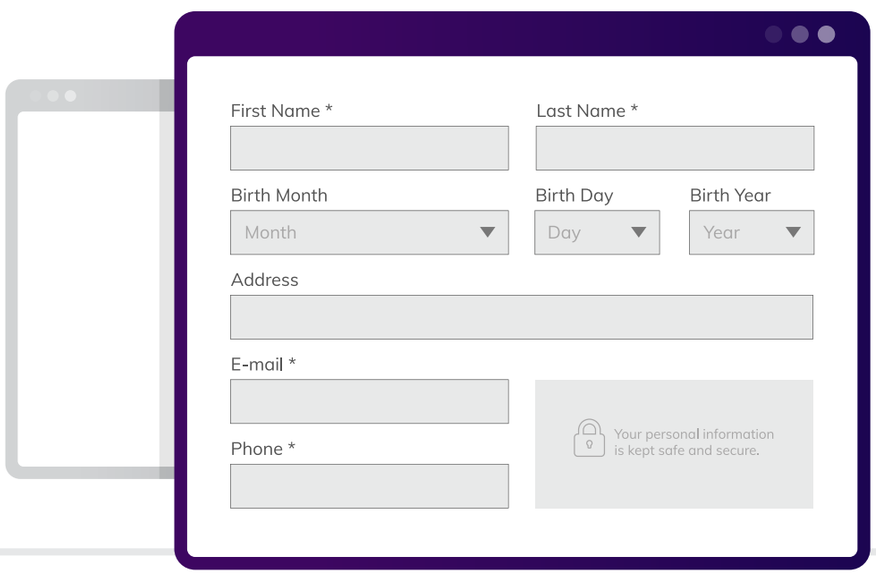
44

HTML Tables

- Table Tags and Width
- Rows and Column
- Adding Data to Table

45

Forms



- Forms
- Form Elements – Text, Number, E-mail, Password
- Placeholders
- Project : Read up on all types of Form Elements

46

Introduction to CSS

- Introduction to CSS Syntax
- Internal and External CSS
- Some Common CSS Properties

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47 CSS Selectors and Key Properties

- Types of Selectors
- Select by Class, Id and Grouping
- Color Property, Font Property

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48 Project

- Form Design

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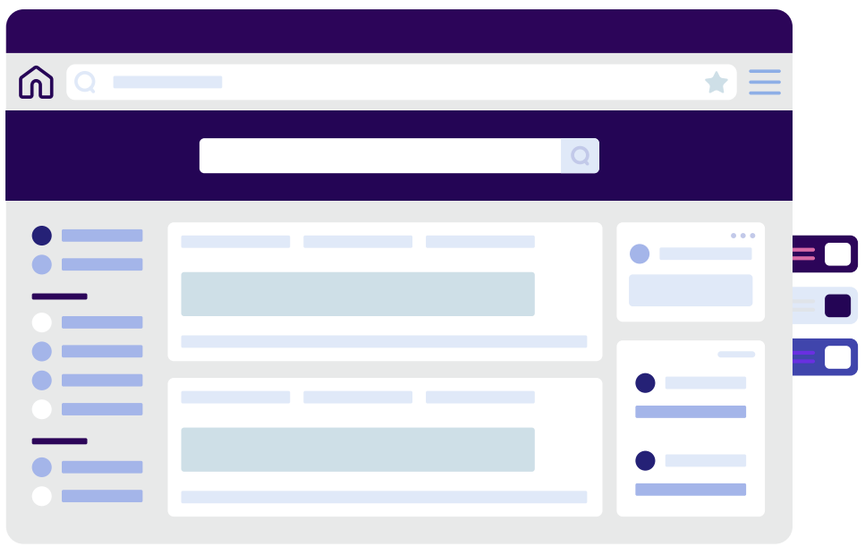
49 Styling Text



- Text Styling
- Colours – Names and Hexadecimal Colour Codes
- Sizes – Pixels and cm
- Line Spacing
- Project : Create a Book Page

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50 Background Color and Images

- Styling Links
- Pseudo-Classes
- Background Colours
- Background Images
- Background Image Properties
- Project : Create Web Page About Your Favourite Game or Movie

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51 CSS Box Model

- Box Model – Paddings, Margins, Dimensions
- Displaying Property
- Positioning

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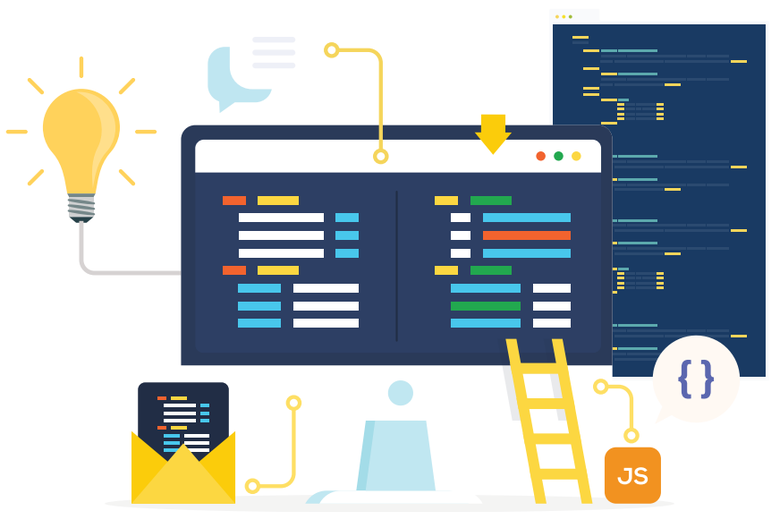
52	Project	• Designing Webpage Using Flexbox
53	CSS Tables	• Decorating a Table • Adjusting Columns and Rows
54	Psedo Class and Element	• CSS Commands on Psedo Classes • Display and Max Width Properties
55	CSS Position, Float, Align	• Adjusting the Position of Elements Using CSS Commands
56	Project - School Website	• Design and Code
58		
59	Introduction to JavaScript	• Introduction to JavaScript • Adding JavaScript into a Web Page • Writing JavaScript Statements • Printing Result on the Page using JavaScript



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60 **Variables and Datatypes**

- Variables and Data types
- Numbers, Strings, Booleans, Arrays, Null and Undefined

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61 **Operators and Conditionals**

- Operators
- Control Flow
- Conditionals : if else
- Do while loop

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62 **Control Flow and Loops**

- For loop
- Switch-Case

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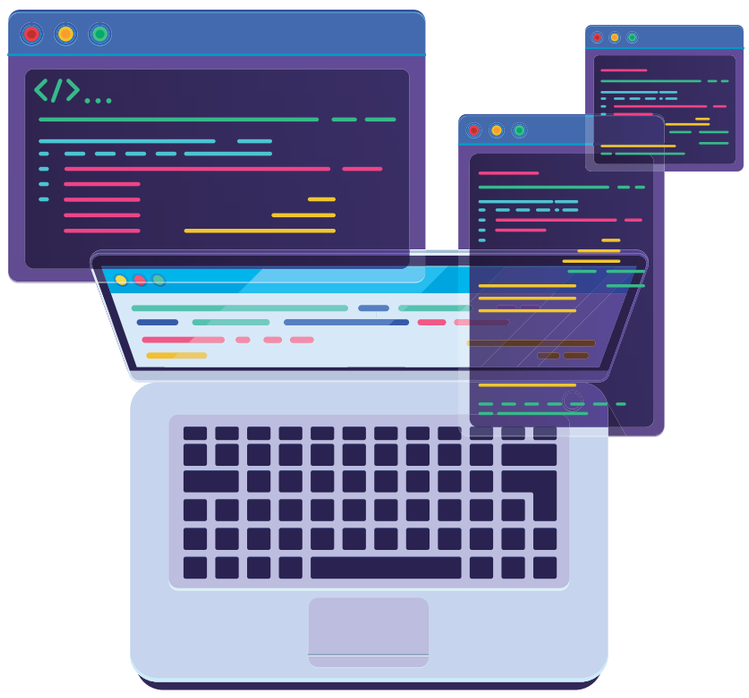
63 **Functions**



- Functions – Parameters, Arguments, Return
- Anonymous Functions
- Project : Creating a Voting Eligibility Checker Program using JavaScript

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64 **Project : Calculator**

- Design and Code

65

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66 **JS; String and Array Methods**

- Length, Index and Search
- Uppercase and Lowercase

- Indexing and Trim Command
- Pop and Push Command
- Indexing and Slice Command

67

JS: Maths, Random and Boolean

- round, pow, min, max Commands
- Boolean Commands

68

DOM : Intro and Methods

- Objects
- DOM – Document Object Model
- DOM Properties
- Finding Elements
- innerHTML, console.log
- Project : Creating an Interactive Web Page

69

DOM: Event Listeners, Navigation Nodes, nodes List

- Exploring how Nodes Function, How it can be used to add to Elements

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70

Project : To do list

- Design and Code

71

Project : Covid Awareness Website

- Design and Code

74

75

Project : E-commerce Website

- Design and Code

79

80

Hosting Your Website

- Domain and Hosting Rules
- My Website, SEO Rules and Beyond

Skill Benefits

- Enhanced Logical Thinking
- Increased Cognitive Skills
- Boosted Abstract Thinking
- Improved Presentation Skills