INTRO TO WEB DEVELOPMENT by Pavan Gandhi

[{((Contexts for Today))}]

- 1. Building blocks of web dev.
- 2. Learning HTML, CSS & JS.
- 3. Login/signup form example.
- 4. Showcase some websites.
- 5. Roadmap for web dev.
- 6. Resources to learn.
- 7. Your questions & queries.

Basic Terms in Web Development

• Front end developers

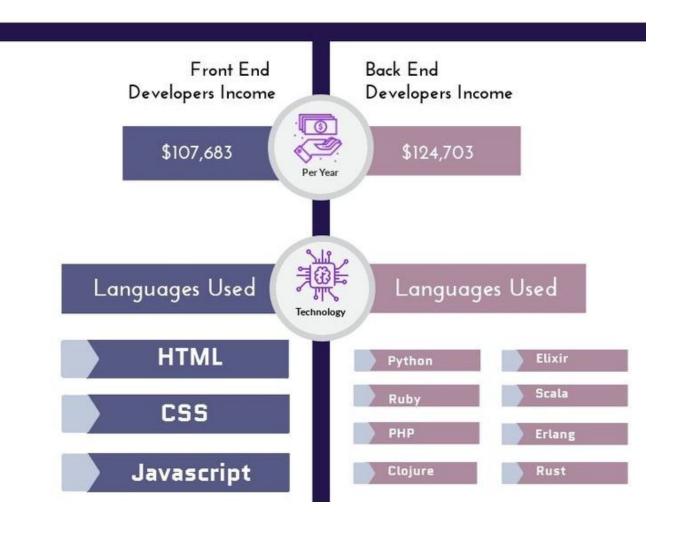
Deals with the front part like design, layout, etc.

Back end developers
 Deals with the server part like server side, databases, etc.

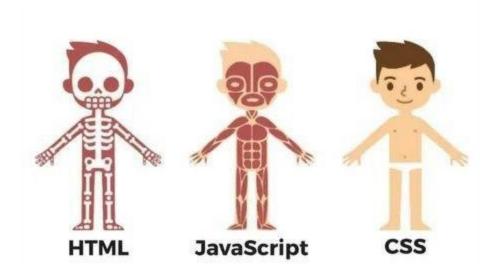
Full stack developers
 Deals with both (front + back)



HOW DO THEY COMPARE?



Building Blocks



- **HTML5** *Structure of the web site*
- CSS3 Look and user interface
- JavaScript Functionality of the site

HTML5 - Hyper-text-markup-language

HTML



NOT an *Prog. Language*Its an <u>Markup</u>

<u>Language</u>

Things to learn:-

- Html Tags
 - <h1> to <h6>
 - •
 - <a>
 - , , >
 -
 - <div>
- Html Semantics
 - <header> , <footer>
 - <section>
 - <nav>
 - <aside>

HTML5 Basic Code

```
• • •
<!DOCTYPE html>
     <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <title>Here is the title</title>
    <link rel="stylesheet" href="">
 </head>
    <h1> Heading 1 \langle h1> \langle!— Heading from h1 to h6 \rightarrow
     Paragraph \langle p \rangle \leftarrow! Paragraph p \rightarrow
    <a href="#" title="/"></a> \leftarrow! Ancor tag a \rightarrow
    <form> ... </form> \leftarrow!— Form tag \rightarrow
    <script type="text/javascript"></script>
</body>
</html>
```

Header	
Nav	
Article	Div
Header	Aside
Section	Aside
Section	
Footer	
Footer	

CSS3 - Cascading-style-sheets

CZZ



Types of CSS

- 1. Inline CSS
- 2. Internal CSS
- 3. External CSS

Things to learn:-

- Various Selectors
 - basically selecting classes and ids
- Styling Attributes
 - margin , padding , color , font etc
- Transactions & Animations
 - key frames and transaction properties
- CSS Positioning
 - static
 - relative
 - absolute
 - fixed
 - sticky (Learn Flexbox for ease)

CSS3 Basic Code

```
. .
    padding: 0;
    font-family: sans-serif;
.box{
    width: 100%;
    height: 100vh;
    border-radius: 4px;
#main-box{
    background: linear-gradient(to right bottom, #7ed56f, #28b485);
    animation: move 10s ease infinite;
@keyframes move{
    0% { background-position: 0% 50%; }
    50% { background-position: 100% 50%; }
    100% { background-position: 0% 50%; }
```

CSS3 Shake Effect



Shake Effect Gif



```
margin: 100px;
    padding: 0;
body {
    height: 100%;
    display: flex;
    justify-content: center;
    align-items: center;
    background: #000;
h1{
    text-align: center;
    position: relative;
    font-size: 55px;
    color: white;
    display: inline-block;
    animation: .8s shake infinite alternate;
@keyframes shake{
    0% { transform: skewX(-15deg); }
    5% { transform: skewX(15deg); }
    10% { transform: skewX(-15deg); }
    15% { transform: skewX(15deg); }
    100% { transform: skewX(0deg); }
```

How to write css easily.

CSS Frameworks







CSS Preprocessor





LESS

JavaScript - Client Side Language



JS is a high level interpreted prog. Language that conforms to the EcmaScript specification.

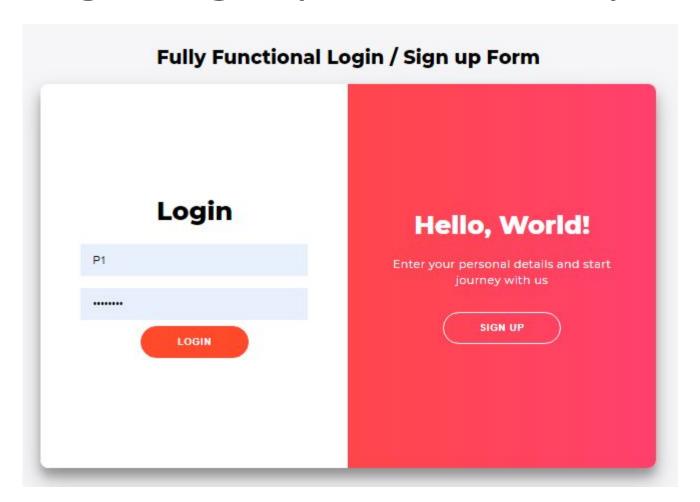
Things to learn:-

- Basic Syntax and Logics
 - basically the prog. part like cpp and java
- Modern JavaScript
 - Arrow functions, Libraries and all.
- Web Skill using JS
 - DOM (Document Object Model)
 - How to Select Object
 - How to Manipulate Object
 - How to Create Object etc.

JavaScript Basic Code

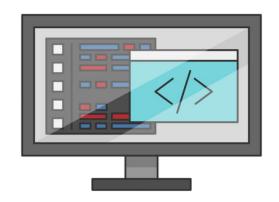
```
console.log("Hello World") //for Printing
document.getElementById(#main-head) //select using id
document.getElementsByClassName(.box) //select using className
document.querySelector('p') //Anything you select id, class, h, p, etc
const myEle = document.querySelector('p') //selecting query
myEle.textContent = "Hello this is Pavan" //change the content of p
const newEle = document.createElement('p') //creating element
newEle.textContent = "New Paragraph" //filling content in it
document.querySelector('body').appendChild(newEle) //positioning the element
```

Login/signup Form Example

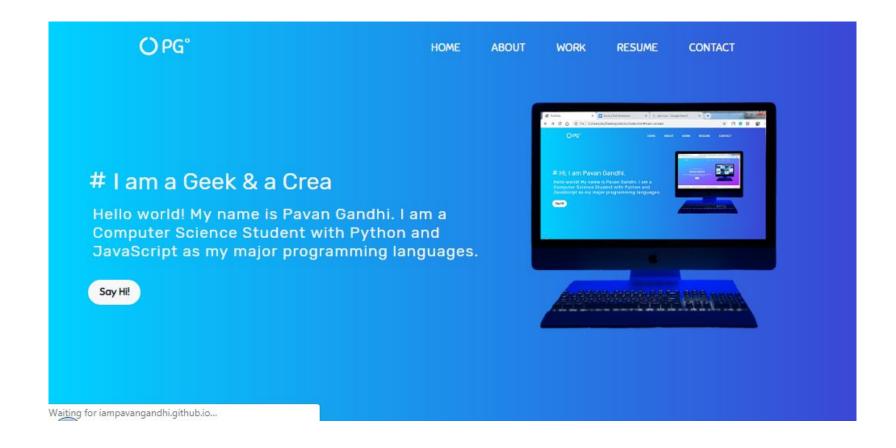


Github: https://github.com/iampavangandhi/LoginSignupForm

Lets See the <CODE/>



Showing: My Website



Website Link: <u>iampavangandhi.github.io</u>

Web Dev. Roadmap / Track

Front End

- Popular Frameworks
 - ReactJS
 - AngularJS











Back End

We Have Multiple Options / Frameworks











JavaScript Framework

Python Framework Codignitor & Laravel

Ruby **Framework**

Java Framework

Web Development Stacks

LAMP STACK
Oldest One



























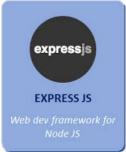
Most Popular

MangoDB + ExpressJS

+ ReactJS +NodeJS

MEAN STACKAlso Popular





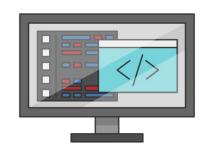




Resources to Learn Web Dev.

W3School – For Basic HTML, CSS, and JS

FreeCodeCamp – For Learning Every Technology



Traversy Media (Site & Youtube) – Every Topic in One Video

DevED (Youtube) – Topic Explained in One Video

Medium – Various Articles Available for Web Dev.



<u>Conclusion</u>:- Check out some great projects on Github, CodePen etc. get ideas from them and build some amazing projects.

THANK YOU



iampavangandhi.github.io

