



## Welcome!

Congrats! We are glad to have you with us. I welcome you aboard. I wish you a long and healthy stay at Big Byte Insights and I am sure we will learn a lot from you.

Every developer goes through a training program. It's important in that your performance in this training program weighs a lot. It definitely is one of the most important things for a new hire. Please show us your wattage. We have a consensus based culture here, however, in this program you are expected to do as directed. We will have to respect deadlines no matter what. I emphasize again, these days are the most important part of your probation.

Make an account on GitLab (link will be provided), with your name, email. Make sure you put all of the code there in separate Git repositories as soon as a milestone's deadline passes. It's also a test of how you manage time.

Below we have few deadlines. At the end of deadline, push your code to Gitlab and give a summary on slack as well (both are mandatory).

Module	Description	Deadline	Date
0	<b>Git Tutorials:</b> Follow this link, read and exercise all tutorials up to Rewriting history. <b>Note:</b> Make sure you are using command line tools not some GUI. <a href="https://www.atlassian.com/git/tutorials/whatisversioncontrol">https://www.atlassian.com/git/tutorials/whatisversioncontrol</a>	1 Day	
1	<b>HTML</b> Learn and implement different HTML tags, and inline styling. <a href="http://www.w3schools.com/html/default.asp">http://www.w3schools.com/html/default.asp</a>	1 Day	
2	<b>CSS:</b> Learn and implement following topics: <ul style="list-style-type: none"><li>• how to write css rule</li><li>• css properties</li><li>• css selectors</li><li>• flexbox in css and its properties</li><li>• css styling internal and external styling</li><li>• padding and margins</li><li>• display inline and block</li><li>• media queries</li></ul> <a href="https://www.w3schools.com/whatis/whatis_css.asp">https://www.w3schools.com/whatis/whatis_css.asp</a>	2 Day	



	<p>Applied Learning: Design the following template using html and css only and make it responsive using media queries(Not necessary same but at least try to copy it) <a href="https://preview.colorlib.com/#docmed">https://preview.colorlib.com/#docmed</a></p>		
3	<p><b>Bootstrap:</b></p> <ul style="list-style-type: none"><li>• Container and jumbotron</li><li>• Navbar,button</li><li>• Learn following topics:</li><li>• Bootstrap Grid system columns and rows in bootstrap</li><li>• Classes in bootstrap</li><li>• Break points in bootstrap</li><li>• Forms</li></ul> <p><a href="https://www.w3schools.com/bootstrap/">https://www.w3schools.com/bootstrap/</a></p> <p><b>Applied Learning:</b> Convert your template into bootstrap using classes and grid system to make it responsive.</p>	2	
4	<p><b>JavaScript:</b> Learn following concepts:</p> <ul style="list-style-type: none"><li>• Variables and data types</li><li>• Difference between var ,let and constant keywords</li><li>• Objects</li><li>• Array and its method</li><li>• Spread and rest operator</li><li>• Loops</li><li>• Functions</li><li>• Arrow function</li><li>• Event loop</li><li>• synchronous vs asynchronous</li><li>• Map, filter, reduce function of an array</li><li>• Hoisting</li><li>• Closure</li><li>• Classes</li><li>• ES6 vs ES5</li></ul> <p><a href="https://www.w3schools.com/js/DEFAULT.asp">https://www.w3schools.com/js/DEFAULT.asp</a></p> <p><b>part 2:</b> What is DOM and how javascript access dom? Js and HTML Dom methods and events <a href="https://www.w3schools.com/js/js_htmlDOM.asp">https://www.w3schools.com/js/js_htmlDOM.asp</a></p> <p><b>Applied Learning:</b></p>	4 Days	



	Make a simple calculator using html css and javascript which will perform basic arithmetic operations addition, subtraction, multiplication and division		
5	<b>API:</b> How to make Api requests in js and test Api in postman. Make requests Using axios and fetch Api <a href="https://www.npmjs.com/package/axios">https://www.npmjs.com/package/axios</a> <b>Applied learning:</b> make get post and put request using <a href="https://jsonplaceholder.typicode.com/">https://jsonplaceholder.typicode.com/</a> and check response in console.	1 Day	
4	<b>React Topics</b> <ul style="list-style-type: none"><li>• JSX</li><li>• Components</li><li>• State and Props</li><li>• Component Life Cycle Method</li><li>• Functional vs Classical Component</li><li>• useState Hook</li><li>• conditional rendering of components</li></ul> <a href="https://reactjs.org/docs/hello-world.html">https://reactjs.org/docs/hello-world.html</a> <b>Applied Learning:</b> -Make a simple counter in react there will be two button increment and decrement and when user click on increment it add one into existing value and when click on decrement it subtract one from value and show value inside a span tag on the page. -If value is less than zero no more decrement from the value and show a message on the page negative values are not allowed.	4 Days	
6	<b>Dealing with side-effect:</b> What are side effects in react? useEffect hook in react and explore its three cases on every render ,first render/page_load and on changing some dependencies. <a href="https://www.youtube.com/watch?v=UVhIMwHDS7k&amp;ab_channel=SonnySangha">https://www.youtube.com/watch?v=UVhIMwHDS7k&amp;ab_channel=SonnySangha</a> <b>Applied Learning:</b> This is <a href="https://jsonplaceholder.typicode.com/posts">https://jsonplaceholder.typicode.com/posts</a> end point to get all posts from jsonplaceholder fake rest api. Your task is to display all posts on to the page in a table format with columns name user id, id, title, body	2 Day	
7	Read and understand different hooks in react and their uses <a href="https://reactjs.org/docs/hooks-overview.html">https://reactjs.org/docs/hooks-overview.html</a>	1 Day	



8	Explore material UI react framework and its Grid system and custom styling using makeStyles hook and theme breakpoints. <a href="https://material-ui.com/">https://material-ui.com/</a>	1 Day	
9	<b>Webpack Topics</b> <ul style="list-style-type: none"><li>● Getting Started</li><li>● Code Splitting (Dynamic Imports)</li><li>● Tree Shaking</li></ul> <a href="https://webpack.js.org/guides/getting-started/">https://webpack.js.org/guides/getting-started/</a>	1 Day	
10	<b>Redux Topics</b> <ul style="list-style-type: none"><li>● Store</li><li>● Actions, Action Creator</li><li>● Reducers</li><li>● Middleware's</li></ul> <a href="https://daveceddia.com/redux-tutorial/">https://daveceddia.com/redux-tutorial/</a> <a href="https://redux.js.org/introduction/core-concepts">https://redux.js.org/introduction/core-concepts</a>  <b>Redux Thunk or Redux Saga</b> <a href="https://github.com/reduxjs/redux-thunk">https://github.com/reduxjs/redux-thunk</a> <a href="https://redux-saga.js.org/docs/introduction/BeginnerTutorial.html">https://redux-saga.js.org/docs/introduction/BeginnerTutorial.html</a> optional: <a href="https://github.com/react-boilerplate/react-boilerplate">https://github.com/react-boilerplate/react-boilerplate</a> <u>Applied Learning:</u> Create a simple react Todo application using redux.	4 Days	