| 9. Javascript | |
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| **Sr** | **Topic** |
| 1 | **Why Javascript** |
| | How JS works |
| | What is ES6/7 |
| 2 | **Basics of Node Project** |
| | npm understanding |
| | dependencies |
| | dev dependencies |
| | npm scripts |
| | node_modules |
| 3 | **Variables** |
| | ES6: let, const |
| | value vs reference |
| | null and undefined |
| | global scope |
| | local scope |
| | variable lookup |
| 4 | **Operators** |
| | assignment |
| | unery, ternery |
| | equality |
| | arithmatic |
| | short circuit |
| 5 | **Functions** |
| | callback, higher order functions |
| | default parameters |
| | arrows |
| 6 | **Objects** |
| | basics |
| | ES6: object shorthand notation |
| 7 | **Conditional statements** |
| | if-else |
| | switch-case |
| 8 | **Loops** |
| | for |
| | while |
| | do,while |
| 9 | **Arrays** |
| | static array |
| | dynamic array |
| | accessing/adding array elements |
| | Es6: foreach |
| 10 | **Es6 : Features** |
| | Es6: Destructurung assignment |
| | Es6: Rest and Spread Operator |
| | Es6: Set and Map |
| | Es6: Classes and Objects |
| | Es6: Inheritance |
| 11 | **String class** |
| | Es6: String interpolation |
| 12 | **Date Manipulation** |
| | plus, minus to current date |
| | format the date |
| 13 | **Javascript helper methods** |
| | filter |
| | map |
| | some |
| | all |

| 10. ReactJs | |
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| **Sr** | **Topics** |
| **1** | **Intro** |
| | About React |
| | Goals |
| | Structure |
| **2** | **Dev Environment Setup** |
| | Text Editor Setup |
| | Create-React-App |
| | Install Create-React-App |
| | Folder Structure |
| | Clean Boilerplate |
| **3** | **First Component** |
| | First Component In Detail |
| | JSX Rules |
| | Nested Components And Tools |
| | CSS Basics |
| | JSX Css |
| | JSX Javascript |
| **4** | **Props** |
| | Props Destructuring |
| | Props - Children |
| | Simple List |
| | Key Prop And Spread Operator |
| **5** | **Event Basics** |
| | mouse event |
| | writing event listeners |
| **6** | **Import And Export Statements** |
| | importing components |
| | importing logic |
| **7** | **UseState - Basics** |
| | General Rules Of Hooks |
| | Simple Counter |
| **8** | **useEffect - Basics** |
| | useEffect - Conditional |
| | useEffect - Dependency List |
| | useEffect - Cleanup Function |
| | useEffect - Fetch Data |
| **9** | **Conditional loading** |
| | Ternary Operator |
| | Short Circuit Operator |
| | Show/Hide Component |
| **10** | **Form Basics** |
| | Controlled Inputs |
| | Add Item To The List |
| | Multiple Inputs |
| **11** | **useRef** |
| | useReducer - UseState Setup |
| | useReducer - Refactor |
| | useReducer - Add Item |
| | useReducer - Remove Item |
| **12** | **Context API / - useContext** |
| | consumers and providers |
| | passing data |
| | working with useReducer |
| **13** | **React Router Intro** |
| | React Router - Basic Setup |
| | React Router - Error And Switch Component |
| | React Router - Links |
| | React Router - URL Params And Placeholder |
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