

# Full Stack Cross Platform Mobile App Development

Building cross platform mobile applications that will run on Android & iOS

## Course Curriculum

**Total Course Duration: 150 hrs**

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| <b>Unit: #1</b>          | Introduction to Apps Development  |
| <b>Duration (in hrs)</b> | 7   |
| <b>Topics</b>            | <ul style="list-style-type: none"><li>● Hybrid App Development Introduction</li><li>● React Native &amp; Ionic Foundation</li><li>● JavaScript Foundation</li><li>● CSS/SCSS Introduction</li><li>● React Native Setup Tutorial</li></ul> |

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| <b>Unit: #2</b>          | Hooks and Classes   |
| <b>Duration (in hrs)</b> | 6   |
| <b>Topics</b>            | <ul style="list-style-type: none"><li>● Class components</li><li>● React Hooks Introduction</li><li>● Functions based approach</li><li>● States &amp; Props</li></ul> |

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| <b>Unit: #3</b>          | React Native Navigation   |
| <b>Duration (in hrs)</b> | 5   |
| <b>Topics</b>            | <ul style="list-style-type: none"><li>● Moving between screens</li><li>● Sending data between screens</li><li>● Stack Navigator</li><li>● Tab Bar &amp; Tab Navigator</li><li>● Side-Bar &amp; Inheriting Stack, Tab &amp; Sidebar in Navigator container</li></ul> |

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| <b>Unit: #4</b>          | Components & Life cycle |
| <b>Duration (in hrs)</b> | 6                       |

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| <b>Topics</b> | <ul style="list-style-type: none"> <li>● Parent-Child components</li> <li>● Passing data via Props</li> <li>● Saving data &amp; fetching data on/from AsyncStorage</li> </ul> |
|               | <ul style="list-style-type: none"> <li>● Constructor &amp; Renders</li> </ul>   |

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| <b>Unit: #5</b>          | Handling Screen Layouts   |
| <b>Duration (in hrs)</b> | 7   |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Flexbox</li> <li>● Conditional View Render</li> <li>● Alignments &amp; Responsiveness</li> <li>● Item positionings</li> <li>● Box Model</li> <li>● Material UI design</li> </ul> |

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| <b>Unit: #6</b>          | UI Components  |
| <b>Duration (in hrs)</b> | 12   |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● ScrollView</li> <li>● Flatlist</li> <li>● Touchable Elements</li> <li>● Dropdown, TextFields</li> <li>● Pie Charts/Bar Graphs</li> <li>● Keyboard show/hide</li> <li>● Icons, Images, Text, Buttons, Loaders</li> <li>● Sliders</li> <li>● Carousel</li> <li>● Designing basic illustrations &amp; icons</li> </ul> |

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| <b>Unit: #7</b>          | Forms Handling  |
| <b>Duration (in hrs)</b> | 5   |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Saving Form Data locally</li> <li>● Run-time Form Validation</li> <li>● Toast messages on success/error</li> <li>● Form Data Manipulation</li> </ul> |

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| <b>Unit: #7</b> | API Integrations |
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| <b>Duration (in hrs)</b> | 7  |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Introduction to REST API &amp; Axios</li> <li>● Basics of GET, POST &amp; UPDATE operations</li> </ul>                    |
|                          | <ul style="list-style-type: none"> <li>● Sending Form data via API</li> <li>● Fetching data from API</li> <li>● Mapping &amp; Filtering Local JSON data</li> </ul> |

### Advance Level

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| <b>Unit: #8</b>          | Camera   |
| <b>Duration (in hrs)</b> | 4  |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Camera (Front/Rare)</li> <li>● Adding Camera Options like Auto Focus, Flashlight</li> <li>● Basics of Picture Optimization</li> </ul> |

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| <b>Unit: #9</b>          | Files Features  |
| <b>Duration (in hrs)</b> | 8   |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Accessing &amp; Rendering Images/Videos from storage</li> <li>● Accessing &amp; Rendering Files from mobile storage</li> <li>● Picture Manipulation like Cropping, Scaling &amp; Rotating</li> </ul> |

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| <b>Unit: #10</b>         | Security Features  |
| <b>Duration (in hrs)</b> | 6  |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Saving API Endpoints, Keys on environment file</li> <li>● API Auth Token</li> </ul> |

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| <b>Unit: #11</b>         | Geolocation   |
| <b>Duration (in hrs)</b> | 7   |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Google Maps</li> <li>● GeoLocation API</li> <li>● Live Tracking</li> </ul> |

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| <b>Unit: #12</b>         | Live Chatting   |
| <b>Duration (in hrs)</b> | 6   |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Introduction to Socket.io</li> <li>● Live Chat integration</li> <li>● Chat window UI design</li> </ul> |

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| <b>Unit: #13</b>         | Animations   |
| <b>Duration (in hrs)</b> | 10   |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Introduction to Mobile App Animations</li> <li>● Animations properties like Slide, Fade, Popup etc.</li> <li>● Multiview animations</li> <li>● Toggling Animations</li> </ul> |

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| <b>Unit: #14</b>         | Push Notifications & Uploading App on Playstore  |
| <b>Duration (in hrs)</b> | 4  |
| <b>Topics</b>            | <ul style="list-style-type: none"> <li>● Generating Device Tokens</li> <li>● Push Notification Basics</li> <li>● Creating Android/iOS builds</li> <li>● Uploading app on Playstore/Appstore</li> </ul> |

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| <b>Unit: #15</b> | Soft Skills  |
| <b>Topics</b>    | <ul style="list-style-type: none"> <li>● Verbal/ Non-verbal communication</li> <li>● Interview skills</li> <li>● Professional/social etiquettes</li> <li>● Professional correspondence/ English</li> </ul> |

**Project: (30-50 hrs)**

1. Food Delivery App
2. Taxi/Bike Booking App
3. Social App
4. Ecommerce App
5. Quiz App
6. Finance App