



# Innovator Program (App Development) -Curriculum

SESSION NO.	SESSION NAME	CLASS TOPICS	ACTIVITY
Session 1	Introduction to App Development and App Development Frameworks	- What is App? - What is React Native? - Cross-platform mobile development - Prerequisite	- Differentiate Cross Platform and Native Apps
Session 2	HTML and CSS Overview	- What is HTML? History and Brief. - HTML Headings, Paragraphs, Links, Images and Div - What is CSS? - CSS Colors, Fonts and Sizes, Border, Padding, Margin	- Display Hello World on the Web Page - Display cat image on Web Page - Link google.com in web page
Session 3	Javascript	- <script> tag - getElementById() - innerHTML - Change HTML Attribute Values - Change HTML Styles (CSS) - Hide and Show HTML Elements	- Turn on and off bulb upon clicking button - Change Text color when click button
Session 4	Create Bulb On/Off App		- Bulb App Activity using HTML, CSS and Javascript
Session 5	Getting Started with React Native	- Setting up your development and testing environment - Install Node 12 LTS - Install Expo CLI	- Display "Hello World" on the home screen - Show image on screen - Run App on Simulator or Virtual Device
Session 6	React Native CLI & Ejecting Expo Project	- Introduction to CLI Terminal and Expo commands	- Create and run the project
Session 7	React Native's Fundamentals	- Editor - Components	- Add <text> component to display "Hello, I am your cat!"
Session 8	Structure & Basic Components	- Basic Components and Project Structure - Views and mobile development	- Take input from user using TextInput - Display image of cat using Image Component
Session 9	Fundamental Concepts	- Editor - Components - JSX	- Any JavaScript expression will work between curly braces, including function calls like (getFullName("Rum", "Tum", "Tugger")) - nest Text and TextInput inside a View - render component multiple times
Session 10	Styles and StyleSheet	- What is Style and StyleSheets?	- Add margin to text - Give color to text and make it bold
Session 11	FlexBasis, FlexGrow and Flex-Shrink	- What is Flex, Layout Direction and Flex Types? - Layout with Flexbox - FlexBasis, FlexGrow and FlexShrink	- Divide screen into 3 sections in the ratio of 1:2:3 vertically
Session 12	FlatList	- What is FlatList? - ItemSeparatorComponent	- Create array of json/strings and show in FlatList
Session 13	ScrollView	- What is ScrollView? - ScrollView vs Flatlist	- Create long design with scrollview to make it scrollable
Session 14	AlignItems	- How to Align Items? - Types of Alignments - Column, row, Column-reverse, row-reverse, LTR, RTL	- Create design with Alignments implementation
Session 15	Text Input & Keyboard	- How to get data from User? - Text Input methods - onSubmitEditing, onFocus, onChangeText	- Create Login and SignUp Screen
Session 16	Buttons and Custom Buttons	- What is Buttons and Touchable Opacity? - Create Customized Buttons - Styling the button	- Add customized buttons to Login and Signup screen
Session 17	Touchable Opacity	- What is Touchable Opacity? - Touchable Opacity functions - onPress, setOpacityTo etc.	- Add functions to Touchable Opacity
Session 18	React Native WebView	- What is WebView?	- Show facebook.com in your app
Session 19	State and Props	- What is prop? - What is State?	- Display image on the screen with source prop - Hungry and pour activity based on state
Session 20	GeoLocation	- React Native Geolocation - What is Latitude and Longitude - Methods of Geolocation	- Get current location of the user and show Lat Long on the screen
Session 21	Alert Box and Custom Alert Box	- What is React Native Alert Box? - Create Alert Box - Create Custom Alert Box	- Create demo app to display alert box on click
Session 22	Google Fonts	- What is Google Fonts? - Use custom fonts in React Native - Get fonts from Google	- Change fonts in app
Session 23	Images	- What is Image tag? - Show images on screen - Set Background images to view	- Play with images
Session 24	Functions	- What is Functions? - Create Functions and calling Functions	- Create age convertor app
Session 25	Create Project		- Create Project
Session 26	Publishing App to Playstore and App Store	Android - Publishing to Google Play Store - Generating an upload key - Setting up Gradle variables - Adding signing config to your app's Gradle config - Generating the release AAB  iOS - Enable App Transport Security - Configure release scheme - Build app for release	- Upload Demo App on PlayStore and AppStore

## STUDENT'S JOURNEY



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