



The Champion package serves as an excellent entry point for students aspiring to learn coding and develop basic applications. While a basic understanding of BlockCode background would be beneficial, it is not essential.

## MOBILE APP DEVELOPMENT

13-15 Yrs | 24 Classes | 3 Months | 50 Minutes | Certificate of Achievement

Gain a foundational understanding of app building, embark on creating interactive, visually appealing, apps, and then share your creations with friends and family.

- Logical and Analytical Thinking
- Problem Solving
- Coding Skills & Building Applications

## LESSON PLAN

Class	Topic	Class	Project
1	Thunkable	Introduction to Thunkable	Colour changing App
2	Introduction to App Design	Learning the design environment of thunkable, using SCREENS, COLUMNS, ROWS, BUTTON, LABELS, IMAGES AND TEXT BOXES.	Profile App
3	App Design elements	Adding GIFS in the image source, changing backgrounds and getting started with block code.	Profile App
4	Screen designing - CAPSTONE PROJECT (PROFILE APP)	Vertical scrolling and horizontal scrolling, swappable screens and adding animations from LOTTIE files.	Capstone Project
5	Multiple screens	Adding drawer navigator, loading icons, navigating between different screens using MENU BAR.	School Blog
6	Login screen	Designing login screen and understanding the concept of database storage using FIREBASE	School Blog
7	Firebase	Linking Firebase with the App	School Blog
8	SCHOOL BLOG - CAPSTONE PROJECT	Completing the code + using WEB VIEWER	School Blog
9	Navigating Elements	Using maps, multiple screens, using buttons for navigation, understanding variables	CITY REPORTING APP
10	Location Sensors	Understanding co-ordinate system using latitude and longitude on the maps, using location sensors	CITY REPORTING APP
11	AIRTABLE	Introduction to AIRTABLE, DATA VIEWER GRID	CITY REPORTING APP
12	Project Completion	Completing the code	CITY REPORTING APP
13	Introduction CHATBOTS	Introduction to DIALOGFLOW and chatbot training	Chatbot
14	Making of CHATBOTS	Making a CHATBOT	Chatbot
15	Linking chatbot to thunkable	Learn how to link chatbot to thunkable	Chatbot
16	ADVANCED CHATBOT - CAPSTONE PROJECT	Using features like screen recorder, text to speech, camera, video recorder	ADVANCED CHATBOT
17	Introduction to CHAT APPS	Understanding DATABASE MANAGEMENT SYSTEM, REAL TIME DATABASE, Creating database on FIREBASE	CHAT APPS
18	Designing CHAT APP	Adding design element to the chat app and real time DB	CHAT APPS
19	Coding chat app- CAPSTONE PROJECT	Completing the code	CHAT APPS
20	WEB API - WEATHER APP	Understanding WEB API using WEATHER APP-design	Weather App
21	WEATHER APP- CAPSTONE PROJECT	Coding the project	Weather App
22	WEB API- QR CODE SCANNER	Designing the app	QR code scanner
23	WEB API- QR CODE SCANNER	Code the App	QR code scanner

\*Lesson plan indicates the topics and projects and should not be read as topics covered per class.