

# Mobile App Development

This **12-week foundation training course** is designed to align with the **Unit 17: Mobile App Development**, for the **BTEC Level 3 National Diploma/Extended Diploma in Information Technology**.

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Week Focus	Key Topics & Activities	Assessment Tasks
1 Introduction to Mobile Apps (A)	- Types of mobile apps (native, web, hybrid)- Platforms: Android, iOS- Key features of mobile UIs	- Research task: Compare 3 mobile apps
2 Mobile Development Tools (A)	- IDEs (MIT App Inventor, Thunkable, Android Studio)- App design tools- Device constraints	- Explore App Inventor/Thunkable- Mini build: Hello World app
3 Client Brief and Requirements (B)	- Client needs- Functional and non-functional requirements- User roles	- Write up scenario-based client brief
4 App Planning and Design (B)	- Storyboarding- Wireframing (paper/Figma)- Screen flows and navigation	- Submit wireframes & navigation map
5 Interface Design & Components (C)	- Buttons, images, lists, forms- Colour, typography, accessibility	- Design and build main interface
6 Event-Driven Programming (C)	- OnClick events- User input handling- Screen transitions	- Create working navigation with events
7 Data Handling (C)	- Variables, lists- Storing data (local only)- Saving user input	- Build basic user form with data capture
8 Multimedia and Sensors (C)	- Using camera, audio, maps, GPS (if supported)- Embed video/images- Permissions	- Add a multimedia element (e.g. map)
9 Testing the App (D)	- Testing on devices/emulators- Functional and usability testing- Logging bugs	- Complete test log and user feedback

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<b>10</b> Evaluation & Feedback ( <i>D</i> )	- Evaluating against requirements- Reviewing user feedback- Suggesting improvements	- Write full evaluation document
<b>11</b> Final App Improvements & Documentation	- Apply improvements- Create user guide- Annotated screenshots	- Submit revised version of app
<b>12</b> Showcase & Submission	- App presentations- Peer feedback- Final submission checklist	- Portfolio submission (App + Evidence)

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