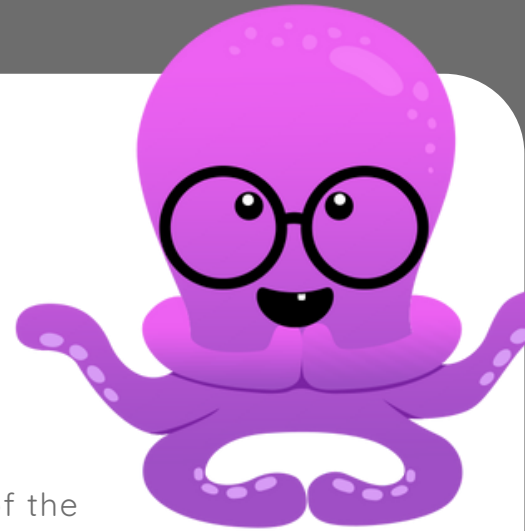


APP DEVELOPMENT (BEGINNER)

Start developing mobile phone apps with help of block-based coding and design lessons.

Enhance your creativity and learn how mobile apps work.



CORE FEATURES

- **Introduction to Thinkable:** Students learn the basics of the Thinkable platform, starting with simple app projects to grasp the drag-and-drop interface and basic programming blocks.
- **30 Sessions, 30+ Quizzes, Activities and Projects.**

CONCEPTS COVERED

App Design & Interaction:

- User Interface Elements
- Screen Layouts and Transitions
- Feedback Mechanisms
- Interactive Menus
- Touch Gestures

User Input & Event Processing:

- Text Input Handling
- Button Actions
- Swipe and Tap Recognition
- Keyboard and Touch Events

Data Handling & Variables:

- Variable Declaration and Scope
- Lists and Dictionaries
- Data Types and Structures

Thinkable Specifics:

- Drag-and-Drop Interface
- Component Properties
- Visual Block Connections
- Thinkable Extensions
- Live Testing and Debugging

Mathematics in Coding:

- Operators
- Random Number Generation
- Coordinate Geometry

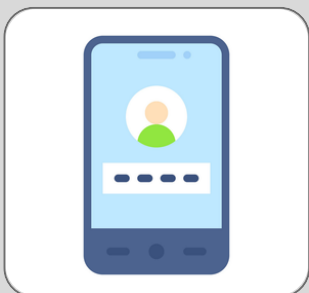
Debugging & Optimization:

- Breakpoints and Step Execution
- Logical Error Resolution
- Performance Tweaks
- Code Maintenance and Updates

Project Implementation:

- App Conceptualization
- Making Prototypes
- Iterative Design Process
- User Testing and Feedback
- App Deployment and Publishing

PROJECT SHOWCASE



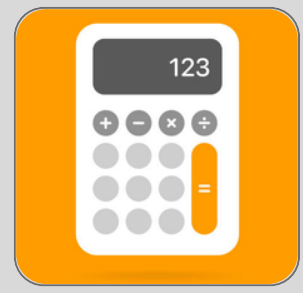
Login App



Stopwatch App



Text Translator



Simple Calculator

APP DEVELOPMENT (ADVANCED)

Unlock the full potential of mobile app development and dive deeper into the world of complex app creation, refining their skills and empowering them to build sophisticated, feature-rich mobile applications.



CORE FEATURES

- **Complex Data Handling:** Introduces students to robust data structures, local storage management, and real-time data updates.
- **30 Sessions, 30+ Quizzes, Activities and Projects.**

CONCEPTS COVERED

User Interface & Interaction:

- Dynamic Button Functions
- Background Color Schemes
- Screen Initialization Processes
- Image Integration and Manipulation

Integration & Network Communication:

- Connecting with Web APIs
- Parsing and Handling Data
- Building Elements
- Customizing Dynamic Elements

Logic & Data Processing:

- Conditional Logic Blocks
- Text and List Management
- Data Retrieval and Storage Solutions
- Implementing Search Functionalities

Functional Features & Customization:

- Refresh Mechanisms
- Clear Screen Mechanisms
- Managing Local Data
- User Preferences

App Components & Structure:

- Dropdowns and User Input Controls
- Designing Data Structures
- Techniques for Deleting Data
- Utilizing Date
- Time Stamps

Blocks Used:

- Button Components
- Local Storage Blocks
- List Viewer Blocks
- Web API Blocks
- Date Pick Blocks

PROJECT SHOWCASE



Jokes Collector App



To-do List App



Event Planner App



Weather App