For Grade - 7th

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10 Lectures

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Course Outline

Review of basic coding concepts and terminologies

- Introduction to computer programming and coding concepts
- Understanding the logic behind coding
- Functions and modular programming
- Arrays and data structures

Web Development with HTML, CSS and JavaScript

- Advanced HTML tags and creating complex web pages
- Advanced CSS styles and layout

- Introduction to JavaScript programming language
- Introduction to jQuery and its use in web development

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10+20 Lectures

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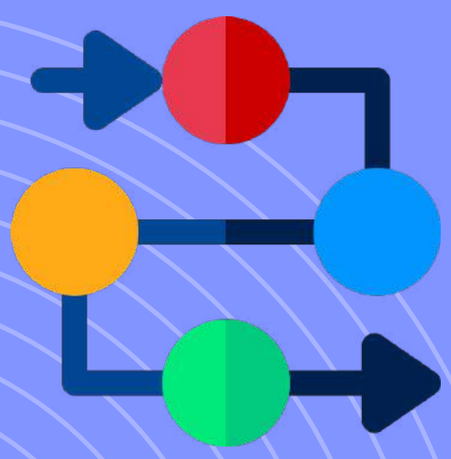
Course Outline

Databases and SQL

- Introduction to databases and their importance in modern applications
- Understanding SQL and creating basic queries
- Creating complex queries and joining tables
- Database normalization and best practices

Refresher to Scratch programming language

- Basic programming constructs (sequencing, looping, conditionals)
- Creating animations and interactive games with Scratch



- Creating simple Python programs
- Building desktop applications with Python (e.g. Tkinter)

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10+20+30 Lectures

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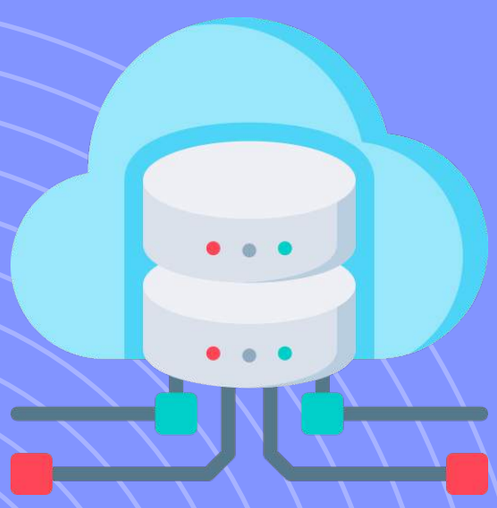
Course Outline

Introduction to app development

- Creating simple apps using visual programming tools (e.g. App Inventor)
- Understanding app design principles and user interface (UI)
- Ethical considerations in technology
- Developing games for mobile devices

Miscellaneous

- Bridge between IOT, smart Applications and Robotics
- Virtual and augmented reality with eon reality
- Introduction to cloud computing and its applications
- Emerging technologies and the future of computing



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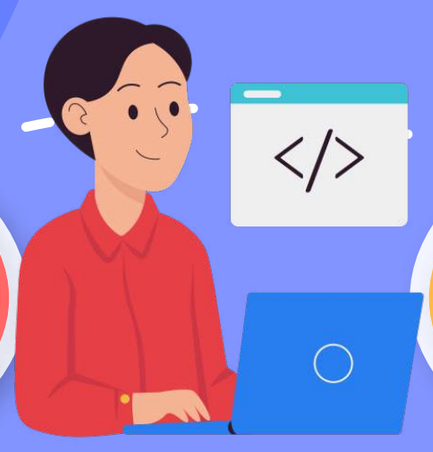
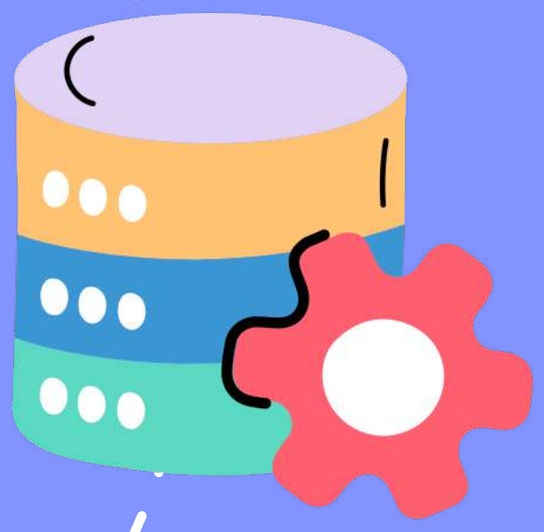
Web Dev with Javascript



Databases

Learning Outcomes



SQL

Internet of Things

Key Points

Create a strong base in the world of coding

Build beautiful, user-friendly web pages

Learn to manage data in an efficient way

Exciting topics like IOT, VR and AR

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