Web and App Development Orientation

Understanding the Basics and Real-World Applications

Understanding Computers

- - Definition: Computers process data using software.

- - What Computers Understand: Binary language (0s and 1s).

- - Why Programming Languages: High-level languages like HTML and Python make communication with computers easier.

Why Programming Languages?

- - Simplify communication with computers.

- - Allow building applications for specific purposes.

- - Examples: Websites, mobile apps, games, and more.

Why Choose Web Development?

- - The web is a universal platform accessible on all devices.

- - Essential for businesses, education, and entertainment.

- - Cost-effective to develop and maintain.

Real-World Examples

- - Static Websites: Personal blogs or event pages.
- - Dynamic Websites: E-commerce platforms like Amazon.
- - Responsive Design: News websites for various screen sizes.
- - Real-time Apps: Chat apps like WhatsApp or video calls like Zoom.

Relating to Students' Lives

- - Encourage personal projects: To-do lists, portfolios, or games.

- - Everyday tech interactions: Ordering food, booking cabs, using social media.

- - Project Idea: Student management system or budget tracker.

Languages and Tools to Learn

- - Frontend: HTML, CSS, JavaScript

- - Frameworks: React, Next.js

- - Backend: Node.js, Express.js , firebase

- - Database: MongoDB

Thank you