

Introduction to Software Engineering

Software engineering is the systematic application of engineering approaches to the development of software.

It involves requirement analysis, design, implementation, testing, deployment, and maintenance.

Modern software engineering emphasizes scalability, maintainability, and collaboration.

Frontend vs Backend Development

Frontend development focuses on user interfaces and user experience.

Backend development handles databases, APIs, authentication, and business logic.

Full-stack developers work across both frontend and backend layers.

Version Control and Git

Version control systems track changes in code over time.

Git is the most widely used distributed version control system.

Common Git workflows include feature branching and pull requests.