

## MAD 503 - Final Presentation Topics (1)

### Foundational Concepts

#### NAME

Intro to Variables and Data Types Across Programming Languages	Mohamed Musleman
Basic Control Structures: Loops and Conditionals	Connor Marcotte
HTTP vs. HTTPS: Understanding Web Security Basics	Kush Jaitinkumar Patel
What is JSON? An Overview of Its Structure and Use Cases	Geogina Ayebiahwe
Basic Web Form Design with HTML and CSS	Adul Aziz
Introduction to IDEs: Differences Between VS Code, Eclipse, and Visual Studio	Matvii Lukarenko
Using Google Chrome Developer Tools for Troubleshooting Web Pages	Yunhoa Chen
CSS Basics: Styling Text and Layouts	Danny Le

### Practical Skills & Everyday Tools

Creating Simple Animations with CSS Transitions	Tristan Flatt
Introduction to Browser Extensions: Making the Web More Productive	Jamie Virtue
How to Use Canva or Figma for Quick Web Design Mockups	Daria Deriagina
Creating Tables and Organizing Data in HTML	Mohammad Kanso
Exploring Keyboard Shortcuts in Popular IDEs for Speed	Javalkumar Patel
Setting Up a Basic WordPress Site Without Coding	Varinderpal Singh

### Soft Skills & Workflow Best Practices

Writing Clear and Effective Code Comments	Anupreet Kaur
Basic Email Etiquette for Professional Communication	Ralph-Julien Jao
Creating Flowcharts to Visualize a Program's Logic	Mukhwinder Singh
Using Google Search Effectively for Coding Help	Peter Jeger
Time Management Tips for Programmers	Chris Jamo
Creating Basic To-Do Lists and Task Management with Trello	Pratham Singh Benipal
Understanding Version Control and Why It's Important	Anish Chaudhary
Best Practices for Naming Variables and Functions	Manasvi Patel, Pratham Soni
Collaborating in Teams: Communication Tips for Programmers	Amranjdeep Kaur, Harmanpreet Kaur

### Programming Languages & Frameworks

CSS Flexbox and Grid for Responsive Design	Stanislav Nehretskyi
Creating Forms and Validation with HTML and JavaScript	Mahammad Niyazov

## MAD 503 - Final Presentation Topics (2)

### Data Fundamentals & Database Management

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Creating and Managing MySQL Databases with PHP	Abhaykumar Patel, Rohan Parmar
Database Normalization: Understanding First, Second, and Third Normal Form	Sahibjot Singh
Basics of Data Types and Structures in Programming	Kristen Arnold

### Web Application Development

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Implementing CRUD Operations with PHP and MySQL	Aarshdeep Singh
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### Object-Oriented Analysis & Design

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Understanding UML Diagrams: Class Diagrams	Komal Hitang
Creating Use Case Diagrams for System Requirements	Francis Biller, Anmol Kalsi
Basic Principles of Inheritance and Polymorphism	Sagar Parmar
Design Patterns: Singleton Pattern in Java or C#	Riddhi Savsani

### Tools & Development Environment

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Using Git for Version Control: Basic Commands and Workflow	Divine Sofowora
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### Software Testing & Deployment

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Continuous Integration Basics with GitHub Actions	Krishna Bhargavi Pabbaraju
Security Testing: SQL Injection and XSS Prevention	Sirjandeep Singh Kandhari

### Emerging Technologies & Best Practices

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Ethical Considerations in Data Collection and Privacy	Aryan Keyhani
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