

**PHP, MySQL, and CodeIgniter**

**WEB DEVELOPMENT**

**(Backend)**



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# DAY 1-2

## Introduction to PHP

- What is PHP?
- Setting up a local development environment.
- Writing and running your first PHP script.

# DAY 3-5

## PHP Variables, Data Types, and Operators

- Variables and data types.
- Variable scope (local, global).
- Constants, arithmetic operators, and more.



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# DAY 6-8

## Control Structures and Functions

- Conditional statements (if, else, switch).
- Loops (for, while, foreach).
- Defining functions and function parameters.

# DAY 9-10

## Arrays, Strings, and Form Handling

- Working with arrays and strings.
- Handling user input via forms.
- Basic form validation.



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# DAY11-12

## Working with Files and Directories

- Reading and writing to files.
- Managing directories.
- File uploads.

# DAY13-15

## Object-Oriented Programming in PHP

- Introduction to OOP in PHP.
- Classes, objects, and methods.
- Inheritance, encapsulation, and polymorphism.



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# DAY 16-18

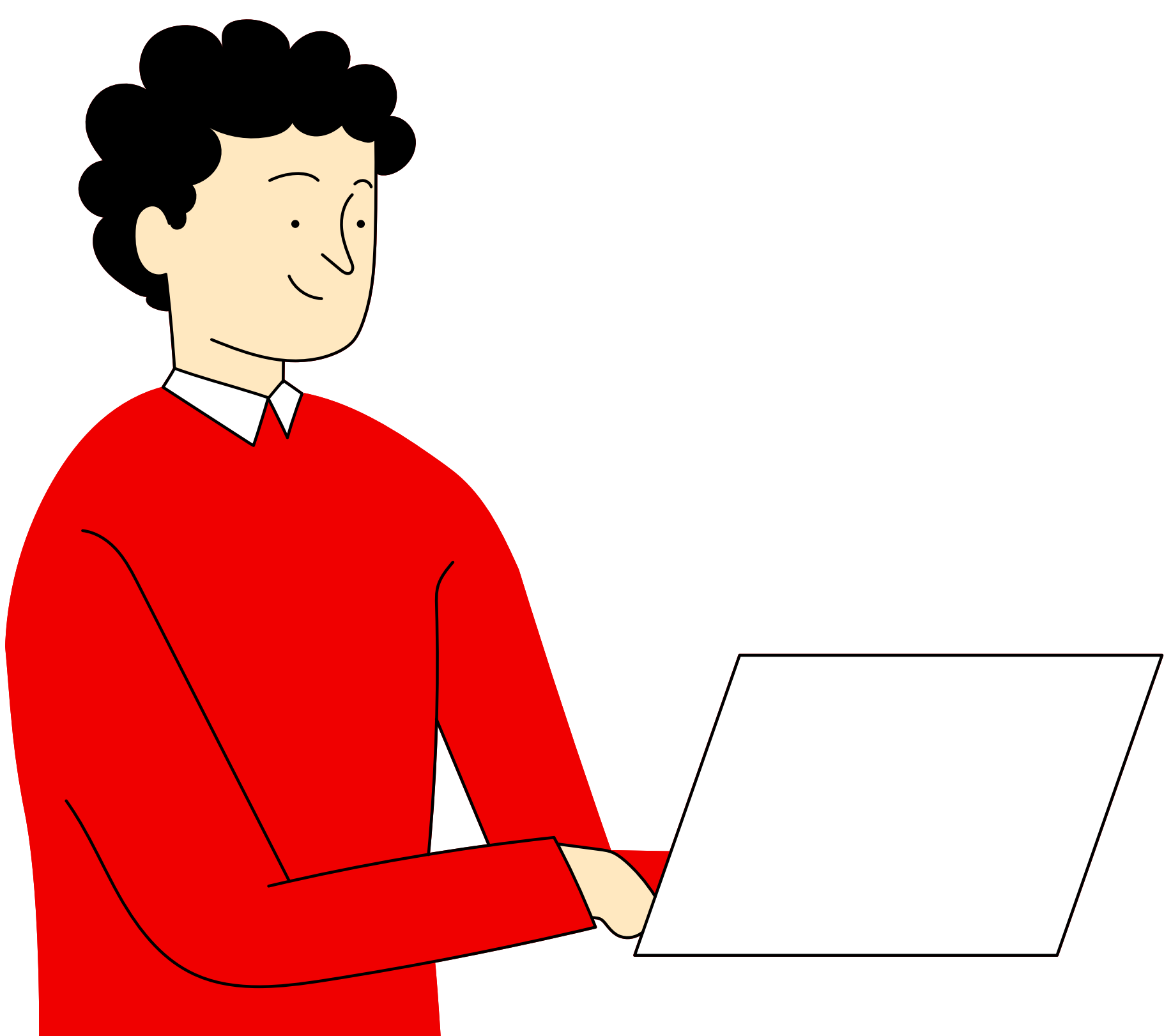
## Error Handling, Sessions, and Cookies

- Handling errors and exceptions.
- Working with user sessions.
- Managing cookies and user state.

# DAY 19-20

## Working with Databases and MySQL

- Introduction to databases and MySQL.
- Connecting to a MySQL database.
- Executing SQL queries for data retrieval.



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# DAY21-22

## Introduction to CodeIgniter

- What is CodeIgniter?
- Installing CodeIgniter.
- Creating and running your first CodeIgniter project.

# DAY23-25

## Controllers, Views, and Routing

- Understanding controllers and their role.
- Creating views and templates.
- Routing and URL management.



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# DAY26-28

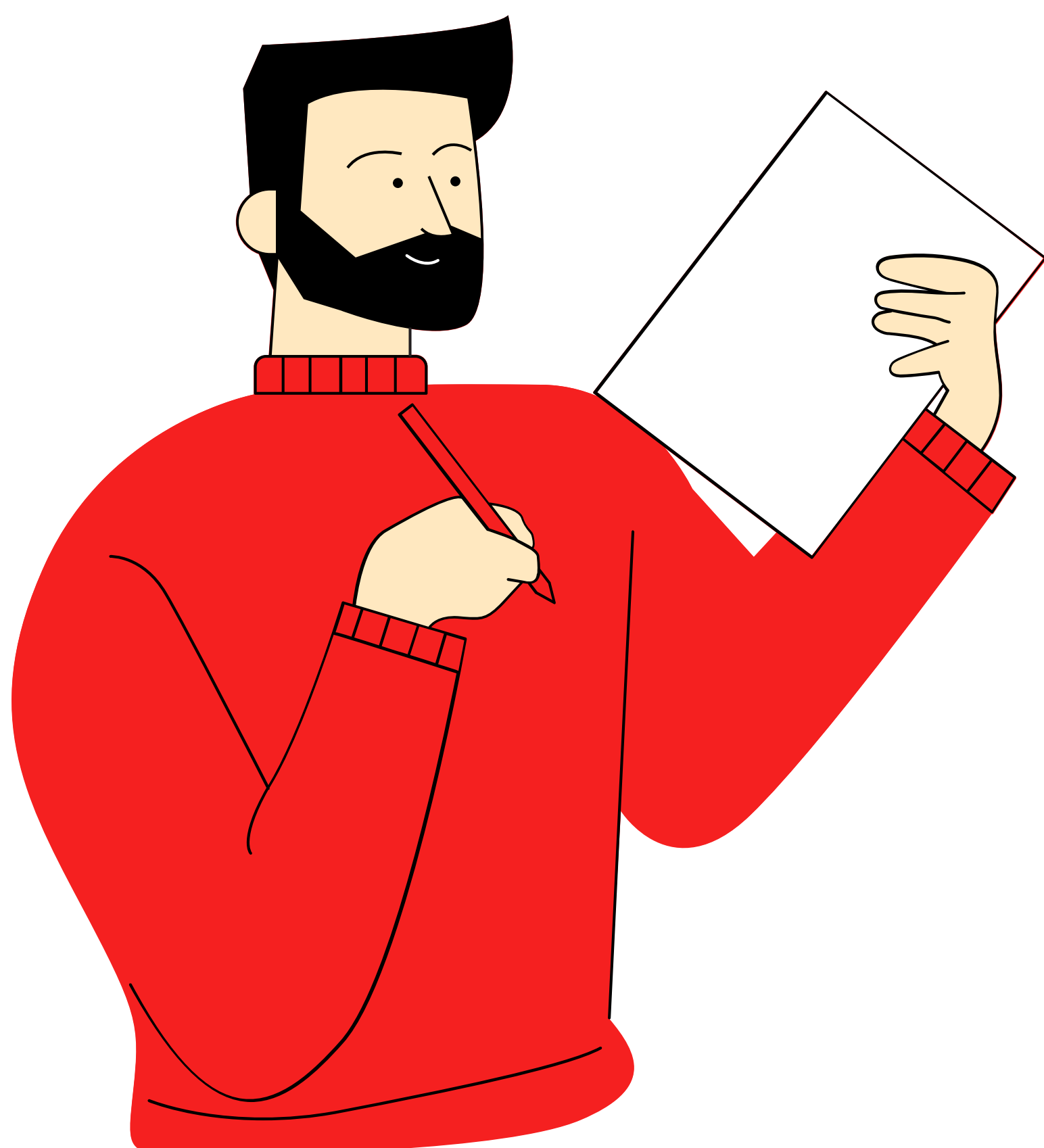
## Models and Databases in CodeIgniter

- Working with models in CodeIgniter.
- Database configuration and migrations.
- Creating, reading, updating, and deleting records.

# DAY29-30

## Form Handling and Validation

- Handling form submissions.
- Form validation using CodeIgniter.
- Form helper functions.



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# DAY 31-33

## Authentication and Security

- User registration and login in CodeIgniter.
- Password hashing and security.
- User roles and permissions.

# DAY 34-36

## Building Real-World Projects with CodeIgniter

- Creating a blog application.
- Implementing user authentication.
- Managing posts and comments.



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# DAY 37-38

## Advanced CodeIgniter Topics

- Custom routes and URL patterns.
- Handling different HTTP request methods.
- Adding libraries and extensions to CodeIgniter.

# DAY 39-40

## API Development with CodeIgniter

- Creating RESTful APIs in CodeIgniter.
- Handling API requests and responses.
- API authentication and security.



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# DAY 41-43

## Testing, Deployment, and Hosting

- Writing unit tests in CodeIgniter.
- Preparing a CodeIgniter application for deployment.
- Deploying to hosting services.
- Domain management and SSL.

# DAY 44-46

## Performance Optimization

- Caching in CodeIgniter.
- Database query optimization.
- Image and asset optimization.



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# DAY 47-49

## Advanced PHP and MySQL Topics

- Writing unit tests in CodeIgniter.
- Preparing a CodeIgniter application for deployment.
- Deploying to hosting services.
- Domain management and SSL.

# DAY 50-52

## Advanced CodeIgniter Topics and Final Projects

- Exploring advanced CodeIgniter topics (e.g., hooks, libraries).
- Building final projects using PHP, MySQL, and CodeIgniter.
- Project presentation and review.



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