

COMPLETE BACK-END

Web Development(Backend)



DAY 1-2

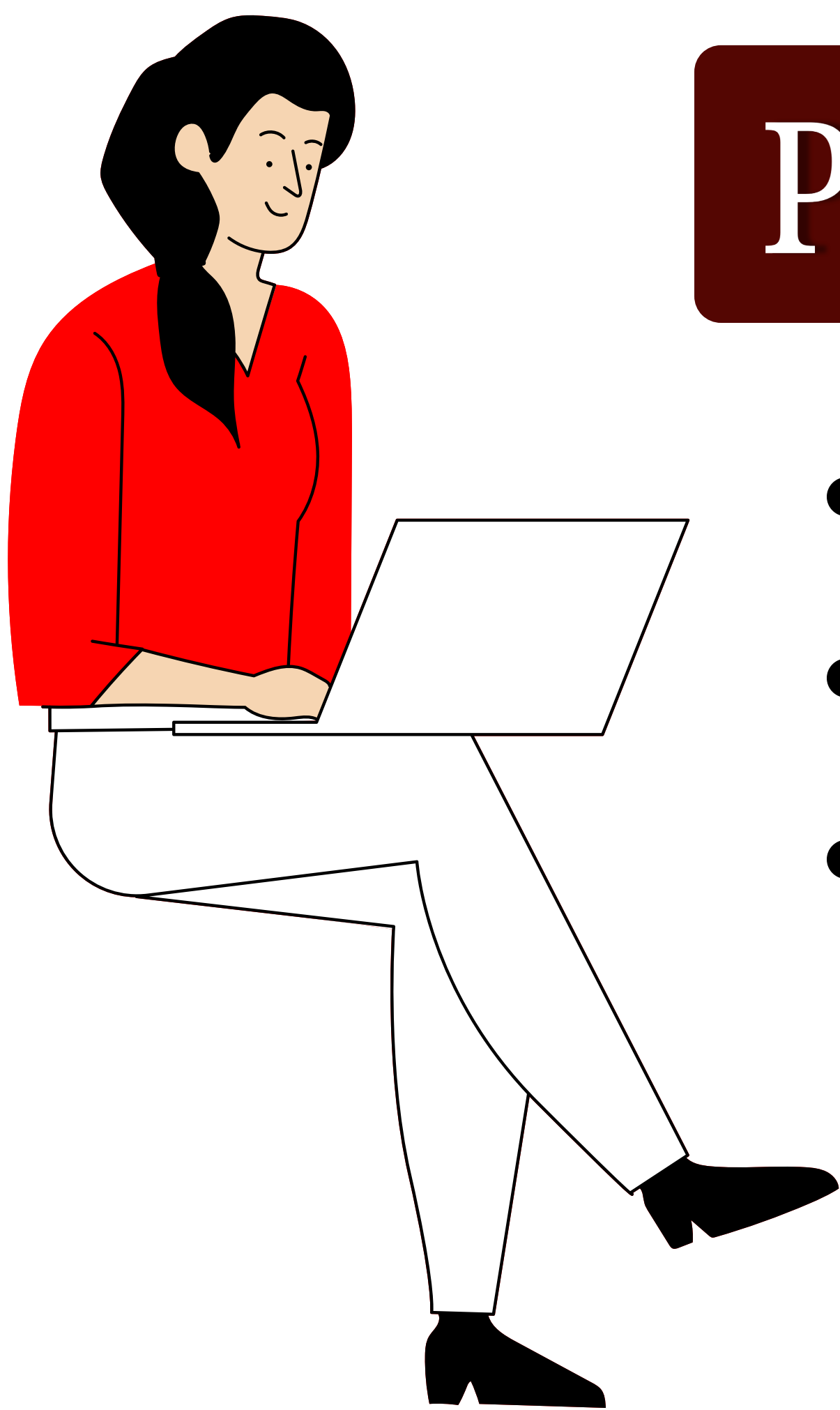
Introduction to PHP

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

DAY 3-4

PHP Variables and Data Type

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



DAY 5-6

Control Structures and Functions

- Conditional statements (if, else, switch).
- Loops (for, while, foreach).
- User-defined functions and built-in PHP functions.

DAY 7-8

Arrays, Strings, and Form Handling

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



DAY 9-10

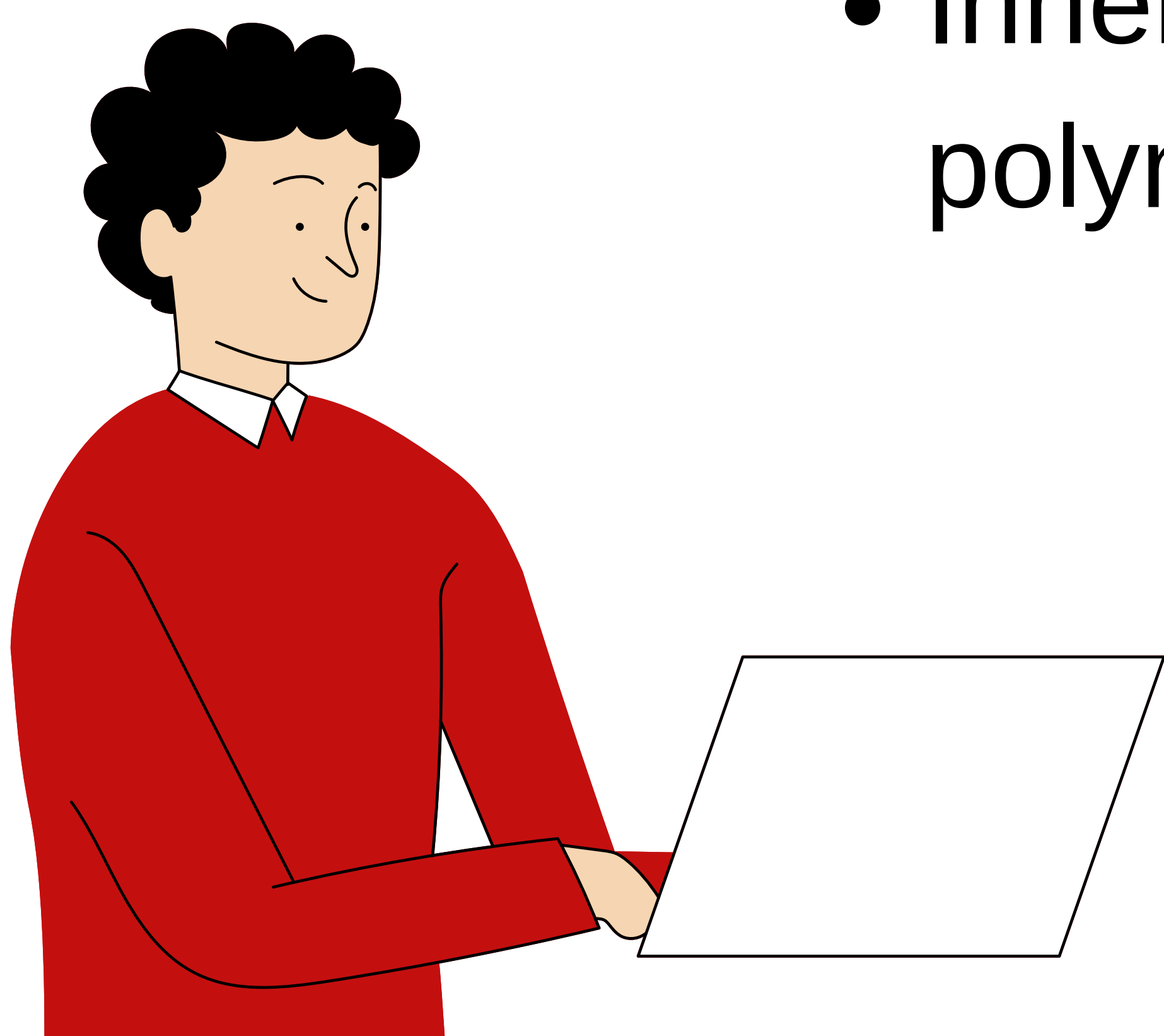
PHP and Databases

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

DAY 11-12

Object-Oriented PHP

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



DAY 13-14

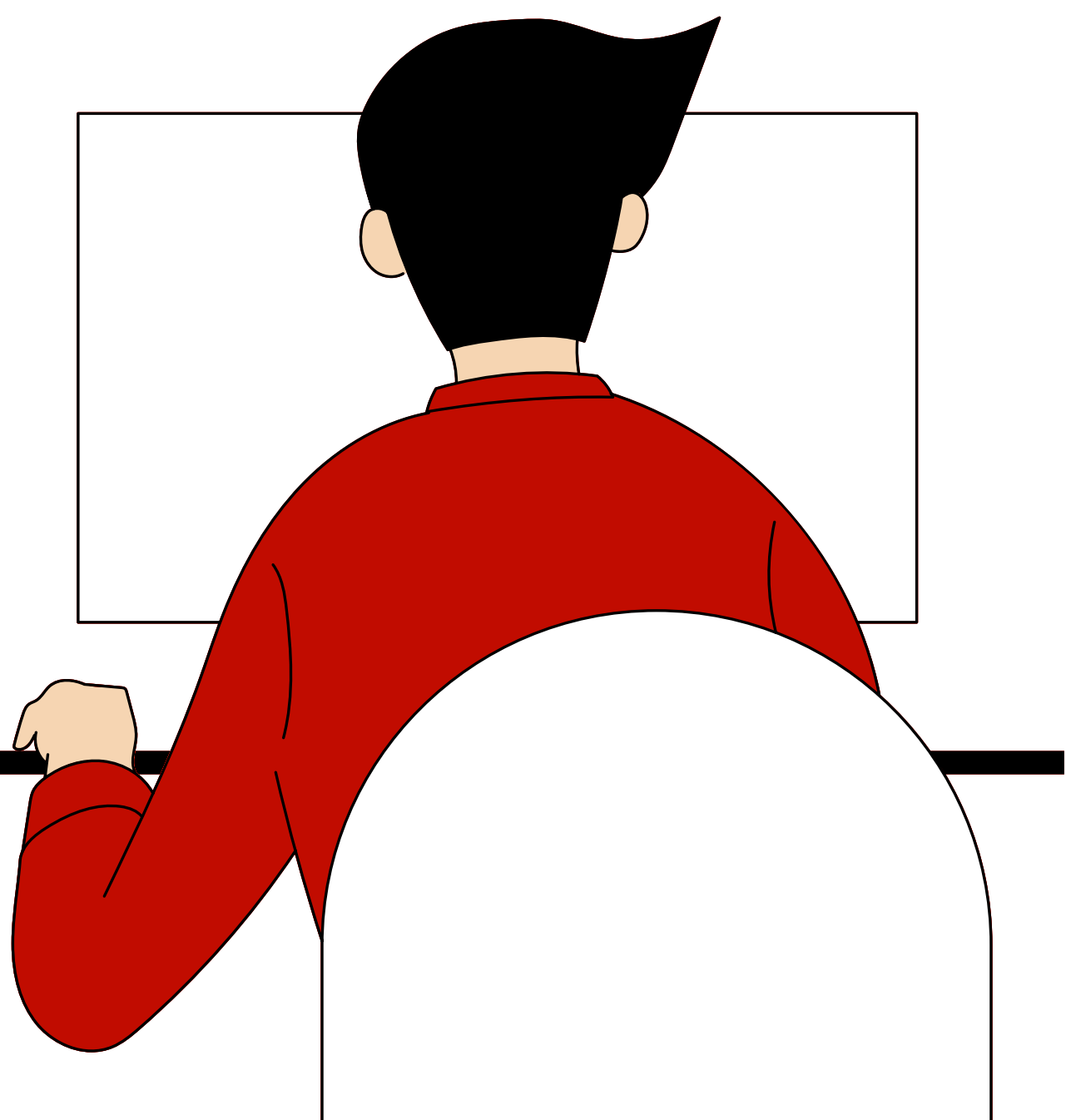
Error Handling and Security

- Handling errors and exceptions.
- Validating and sanitizing user input.
- Password hashing and security.

DAY 15-16

Working with Files and Directories

- Reading and writing to files.
- Managing directories.
- File uploads and secure file handling.



DAY 17-18

Sessions, Cookies, and User Authentication

- Managing user sessions.
- Working with cookies.
- Implementing user authentication.

DAY 19-20

Introduction to CodeIgniter

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



DAY 21-22

Controllers, Views, and Routing

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

DAY 23-24

Models and Databases in CodeIgniter

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



DAY 25-26

Form Handling and Validation

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

DAY 27-28

Authentication and Security in CodeIgniter

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



DAY 29-30

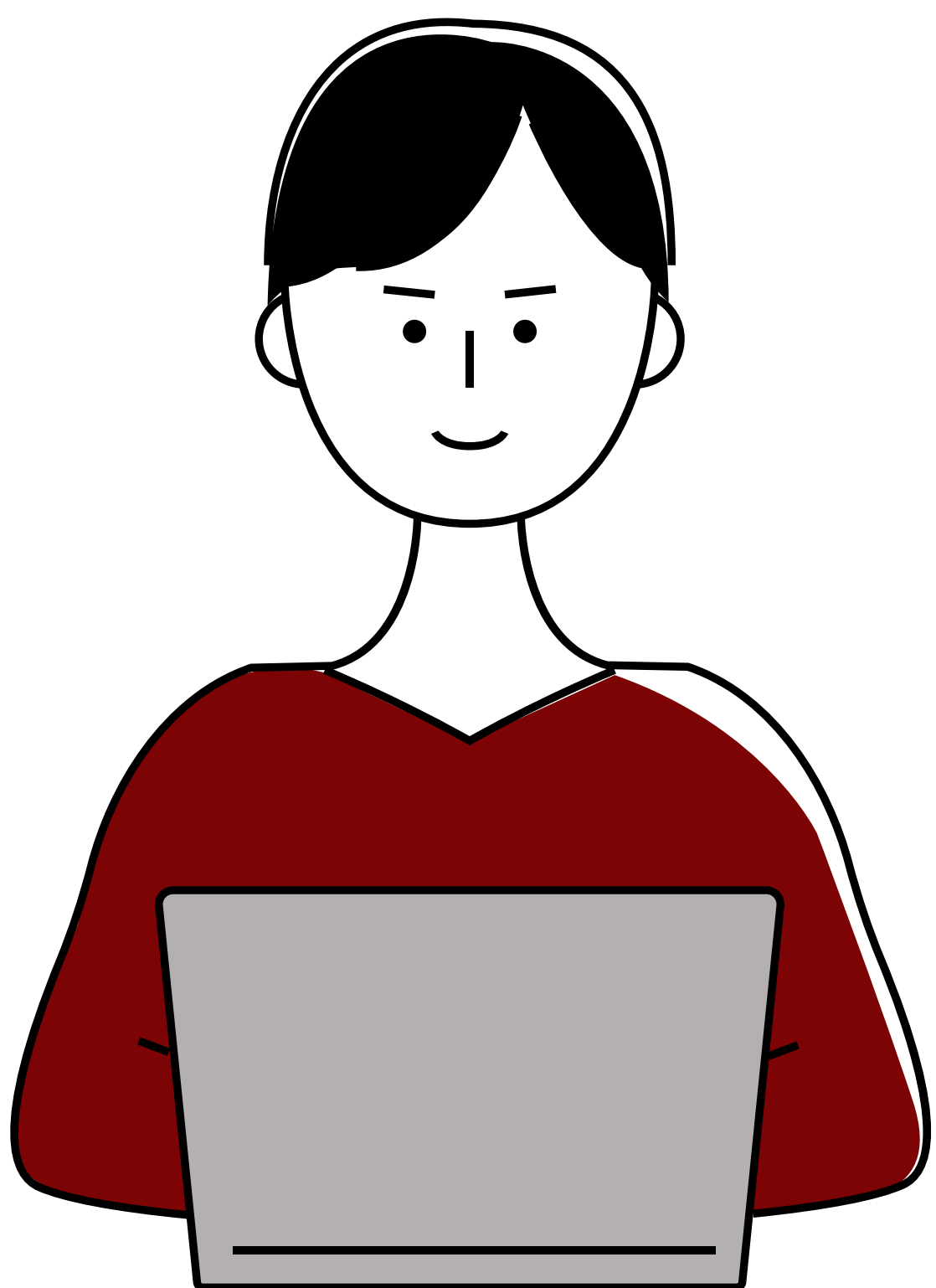
Building a Real-World Project in CodeIgniter

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

DAY 31-32

Laravel Basics

- What is Laravel?
- Installing Laravel using Composer.
- Creating and running your first Laravel project.



DAY 33-34

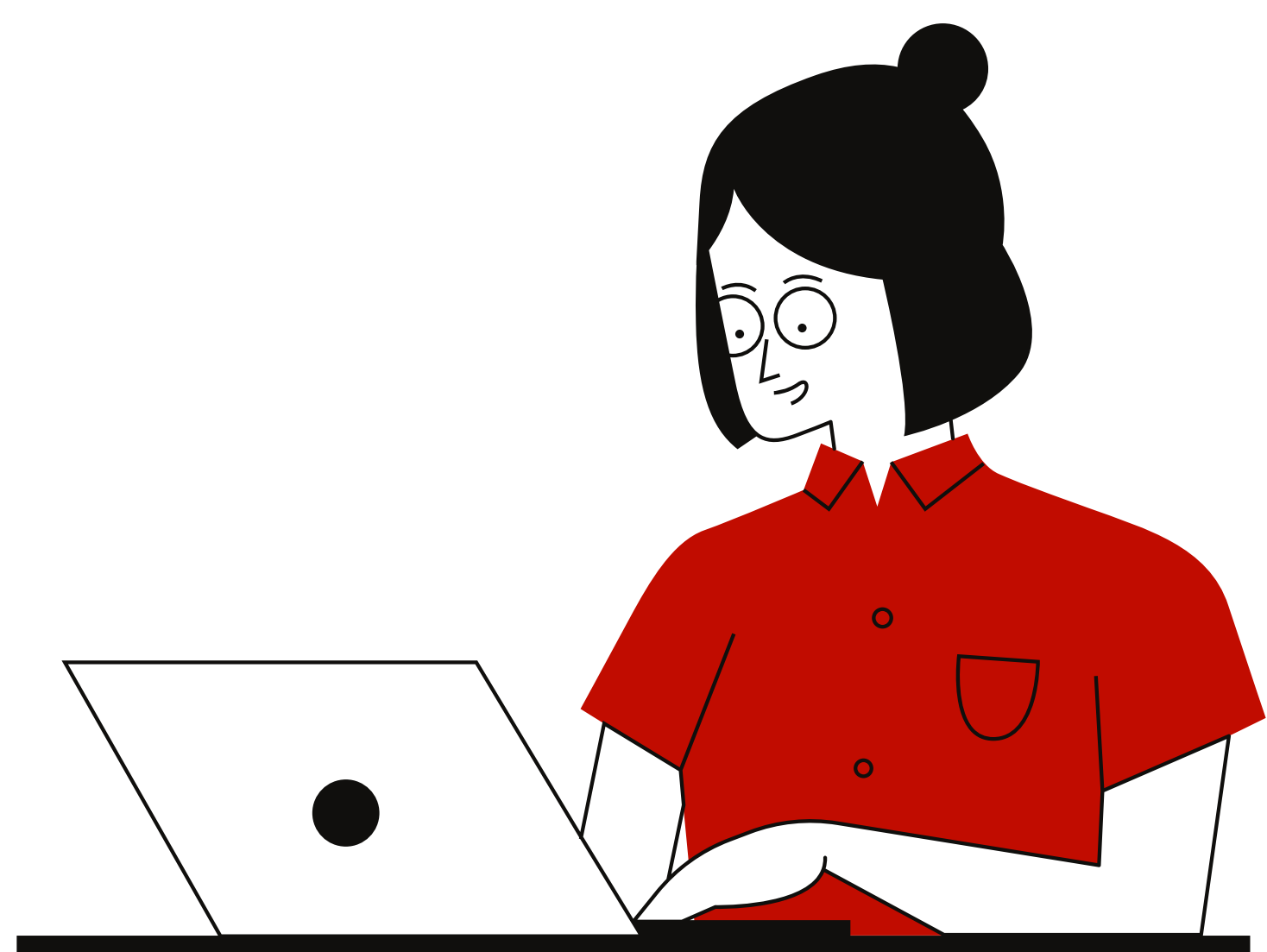
Controllers, Views, and Routing in Laravel

- Understanding controllers in Laravel.
- Creating views and templates in Blade.
- Routing and URL management in Laravel.

DAY 35-36

Models and Eloquent ORM

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



DAY 37-38

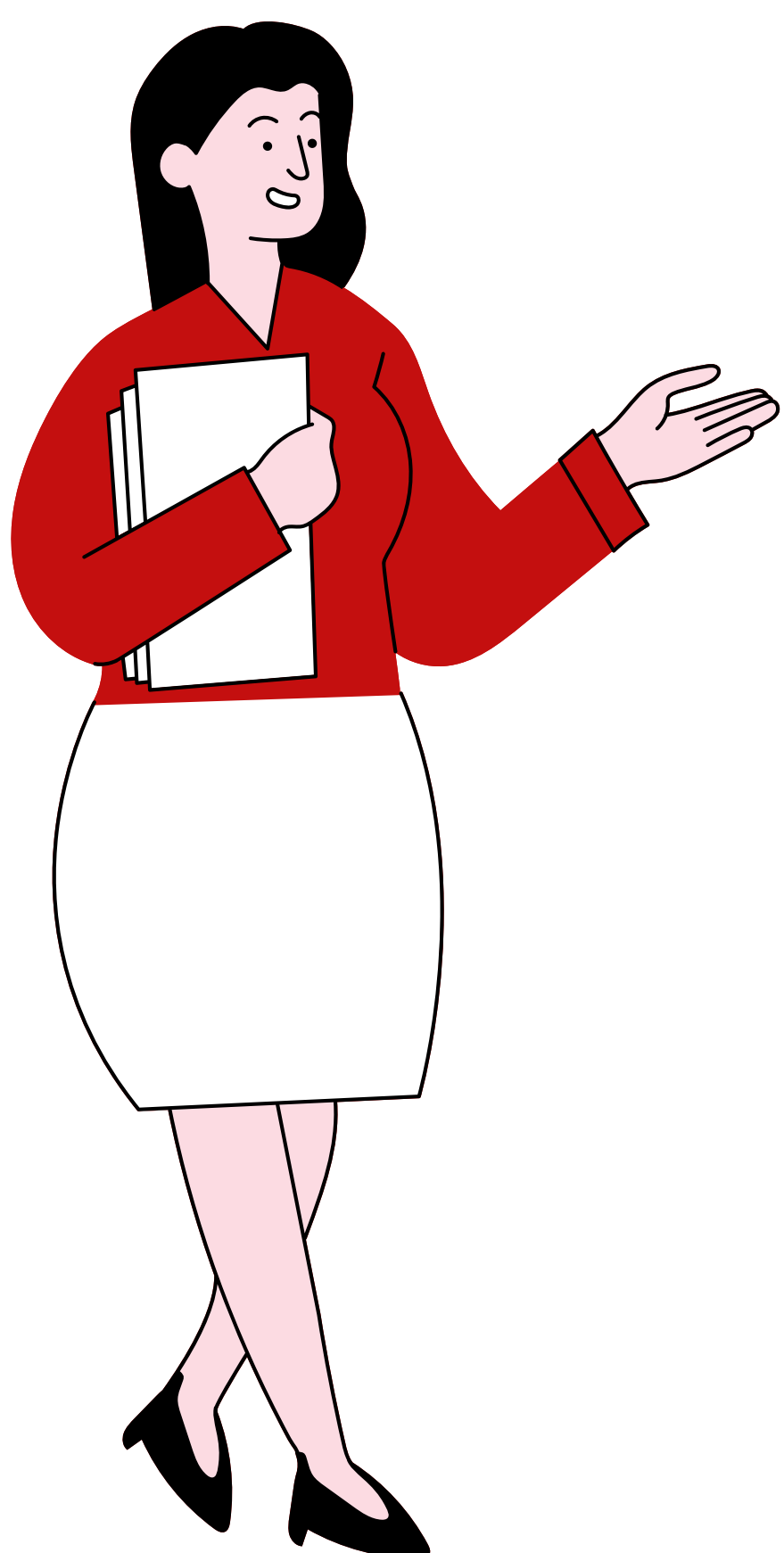
Form Handling and Validation in Laravel

- Handling form submissions in Laravel.
- Form validation using Laravel's validation rules.
- Form helper functions in Blade.

DAY 39-40

Authentication and Security in Laravel

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



DAY 41-42

Building a Blog in Laravel

- Creating a blog application in Laravel.
- Managing posts, comments, and user authentication.

DAY 43-44

Building a Task Management System

- Creating a task management system in Laravel.
- Assigning and tracking tasks.
- Notifications and email integration.



DAY 45-46

Advanced Laravel Topics

- Custom routes and URL patterns.
- Error handling and exception management.
- Adding libraries and extensions to Laravel

DAY 47-48

API Development in Laravel

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



DAY 49-50

Testing, Deployment, and Hosting

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

DAY 51-52

Performance Optimization

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



DAY 53-54

Queues, Events, and Jobs

- Using Laravel queues for background jobs.
- Working with events and event listeners.
- Exploring advanced features in Laravel.

DAY 55-56

Advanced MySQL Topics

- Advanced MySQL queries, joins, and indexing.
- Database normalization and design.
- Data backup and security.



DAY 57-58

Final Projects and Debugging

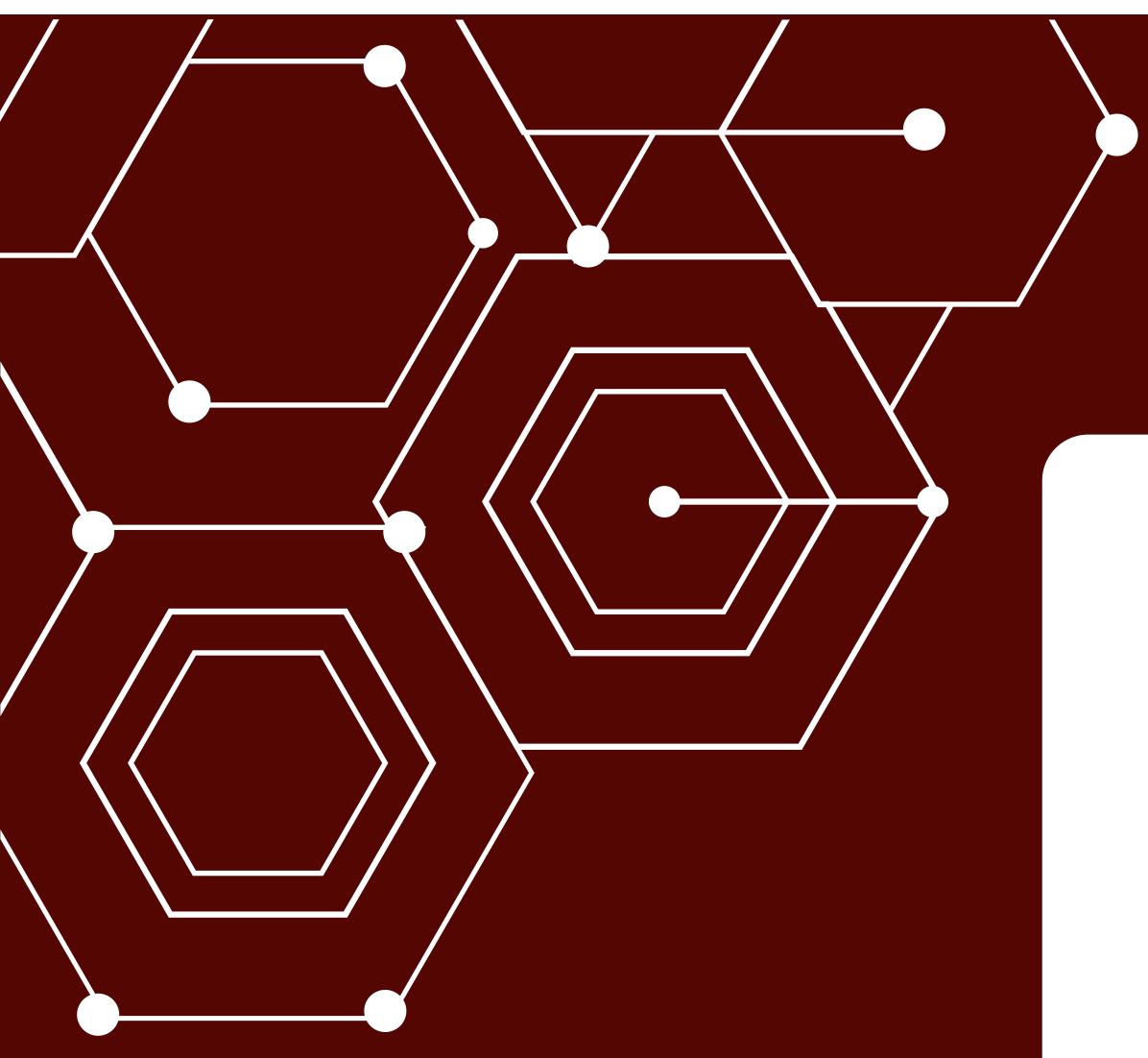
- Work on individual or group projects that incorporate PHP, Laravel, and MySQL.
- Troubleshooting, debugging, and project presentation.

DAY 59-60

Additional Learning Resources and Next Steps

- Explore further learning resources.
- Discuss next steps in your web development journey.





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