Part 1: Backend with Laravel and MVC Architecture

- 1. Introduction to Laravel
 - What is Laravel?
 - Features and advantages of Laravel
 - Laravel ecosystem and community support
- 2. Understanding MVC Architecture
 - What is MVC?
 - Model, View, Controller components
 - Separation of concerns
 - Benefits of MVC in web development
- 3. Getting Started with Laravel
 - Installing Laravel
 - Laravel directory structure
 - Artisan command-line interface
- 4. Routing and Controllers
 - Basic routing
 - Route parameters
 - Controller structure and creation
 - Middleware for request handling
- 5. Views and Blade Templating
 - Creating views
 - Blade templating syntax
 - Passing data to views
 - Blade directives and includes

- 6. Database Operations with Eloquent ORM
 - Introduction to Eloquent ORM
 - Model creation and conventions
 - CRUD operations with Eloquent
 - Relationships in Eloquent
- 7. Authentication and Authorization
 - Setting up authentication
 - User registration and login
 - Authorization with Gates and Policies
 - Authentication scaffolding
- 8. Validation and Error Handling
 - Form validation
 - Custom validation rules
 - Error handling and error messages
 - Form request validation
- 9. RESTful APIs
 - Introduction to RESTful APIs
 - Creating API routes
 - Building API controllers
 - API resource transformations
- 10. Middleware and Service Providers
 - Understanding middleware
 - Creating custom middleware
 - Service providers and dependency injection
 - Registering service providers

Part 2: Mastering Frontend with React.js & Redux

- 1. Introduction to React.js
 - What is React.js?
 - Benefits of using React.js
 - React.js ecosystem
- 2. Setting Up React.js Environment
 - Installing Node.js and npm
 - Creating a new React.js project
 - Project structure
- 3. JSX and Components
 - Understanding JSX syntax
 - Creating functional and class components
 - Component lifecycle methods
 - Props and state
- 4. Handling Events and Forms
 - Event handling in React.js
 - Form handling and controlled components
 - Handling user input
- 5. Conditional Rendering and Lists
 - Conditional rendering in React.js
 - Rendering lists with map()
 - Keys in lists and their importance

- 6. React Router
 - Introduction to React Router
 - Setting up routes in React.js
 - Nested routes and route parameters
 - Programmatic navigation
- 7. State Management with Redux
 - Introduction to Redux
 - Three principles of Redux
 - Setting up Redux in a React.js application
 - Actions, reducers, and the store
- 8. Advanced Redux Concepts
 - Middleware in Redux
 - Asynchronous actions with Redux Thunk
 - Redux DevTools for debugging
- 9. Using Redux with React
 - Connecting React components to Redux store
 - mapStateToProps and mapDispatchToProps
 - Selector functions for data retrieval
- 10. Testing and Debugging
 - Testing React.js components
 - Debugging React.js applications
 - Using React Developer Tools
- 11. Deployment Strategies
 - Building React.js for production

- Deployment options
- Continuous integration and deployment (CI/CD)