

# Week 9: Introduction And Instructions

In **Week 9: Shopping Cart Exercise**, you're going to learn how to integrate a React front end with the back end and learn how to use tools like Strapi, Postman, Express, and node. You'll use Strapi to create a Database, then use Express and Postman to set up and test the communication between Strapi and the front end.

## A Note On Coding

Coding activities in this course are intended to be challenging.

You'll find instructions for each activity that'll point you in the right direction, but the instructions aren't meant to be a step-by-step recipe to follow. Often, in order to be successful, you must make logical leaps: analyze and synthesize information on your own, and incorporate information that was discussed in the videos and/or included in prior activities. Coding can be complex; it's not unusual to have to try the activity several times before you get it right. That's the way people learn to code: they "try and try again" – each time you try and fail, you'll learn vital information that you can use to further refine your code.

These activities have been designed to apply the concepts you've learned thus far and replicate real-life scenarios that'll allow you to increasingly work independently.

## Learning Outcomes

### *Course Learning Outcome Addressed*

- Build, test, and deploy a React application

### *By the end of this week, you will be able to:*

1. Explain the relationship between the front end, API, and back end.
2. Create a Strapi database
3. Identify the functionality of Express, APIs, and Postman
4. Identify the role of the back end
5. Integrate Strapi with a React application
6. Use Postman to test API endpoints

## Activities

## ***Key Activities***

- Knowledge Check
  - 19.1: Express, APIs, And Postman
- Discussions
  - How React Ties Into Back End Systems
  - Integrating The Back End
- Coding Activities
  - Create Strapi Product Database Activity
  - Use Postman To Test API Endpoints
- Coding Assignments
  - Build Restocking Functionality
  - Build Restocking Functionality Video Submission

## ***Self-Study Activities***

- Shopping Cart Exercise