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# Lab 1: Vibe Coding

## Overview

In this lab, you will learn how to use Kiro's **Vibe Coding** feature to rapidly build a complete e-commerce website through natural language prompts. Vibe Coding represents Kiro's most powerful capability - transforming high-level descriptions into fully functional applications with minimal manual coding.

**What is Vibe Coding?** Vibe Coding is Kiro's AI-powered development mode that interprets your project

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logic, user experience patterns, and technical best practices.

### What You'll Build:

- A **3-tier e-commerce web application** with modern architecture
- **React-based frontend** with responsive UI and interactive components
- **Node.js backend** with RESTful APIs and business logic
- **SQL database** with proper schema design and data relationships
- **Complete user workflows** including product browsing and cart management

### What You'll Learn:

- How to craft effective prompts for complex application development
- Understanding Kiro's code generation and project scaffolding capabilities
- Testing and validating AI-generated applications
- Troubleshooting common issues in full-stack development
- Iterating and refining applications through conversational development

This lab demonstrates how Kiro can accelerate development from concept to working application in



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## Let's Vibe!

In Kiro's chat panel, choose **Vibe** and send the prompt below:

Build a simple e-commerce website with three web pages, including

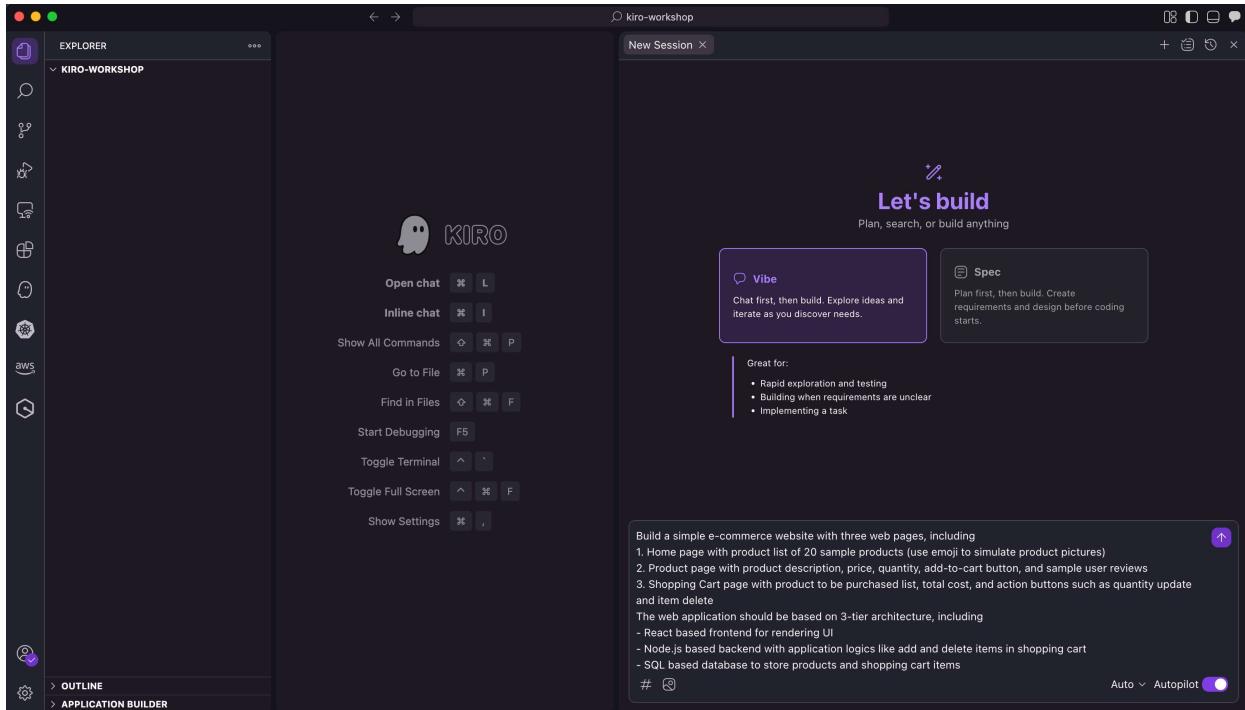
1. Home page with product list of 20 sample products (use emoji to simulate product pictures)
2. Product page with product description, price, quantity, add-to-cart button, and sample user reviews
3. Shopping Cart page with product to be purchased list, total cost, and action buttons such as quantity



The web application should be based on 3-tier architecture, including

- React based frontend for rendering UI
- Node.js based backend with application logics like add and remove items in shopping cart
- SQL based database to store products and shopping cart items





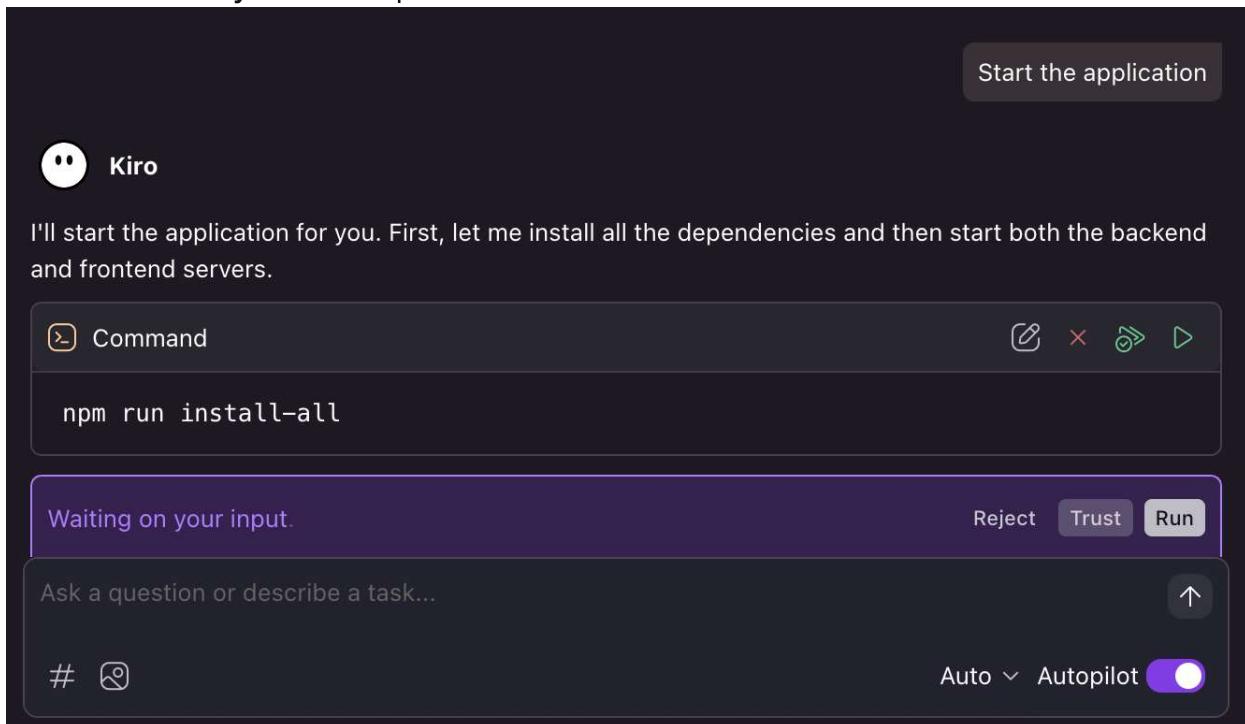
Once the Vibe Coding is done, send the prompt below to start the E-commerce website:

Start the application



Kiro translates your request into the appropriate terminal command and asks for your approval before executing. You'll review the suggested command and choose to Modify, Reject, Run, or Run and Trust, then see the output directly in chat. For more information, see [Terminal Integration ↗](#)

Click the **Green Play Icon** to accept and run the command in terminal.



The E-commerce website should be opened via a web browser automatically. If not, open any web browser, browse <http://localhost:3000> or other port for React Frontend. You will access the E-commerce website similar to this:

The screenshot shows the homepage of an e-commerce store. At the top, there's a dark header bar with the store logo 'E-Commerce Store' on the left, and 'Home' and 'Cart' links on the right. Below the header is a section titled 'Featured Products' containing six items arranged in a grid:

- Wireless Headphones** (\$99.99) - Electronics
- Smartphone** (\$699.99) - Electronics
- Laptop** (\$1299.99) - Electronics
- Coffee Mug** (\$15.99) - Home
- Running Shoes** (\$129.99) - Sports
- Backpack** (\$79.99) - Accessories

This screenshot shows a product detail page for a 'Laptop' priced at \$1299.99. The page includes a large image of the laptop, its price, category ('Electronics'), a brief description ('Powerful laptop for work and gaming'), and a quantity selector with a value of 1. There's also an 'Add to Cart' button.

**Customer Reviews**

**Lisa K.** Fast performance, great for work and gaming.

This screenshot shows the shopping cart page. It lists two items: a 'Laptop' and a 'Gaming Controller'. Each item has a quantity selector (set to 1), a price, and a 'Remove' button. The total value of the cart is displayed as 'Total: \$1359.98'. At the bottom, there are 'Continue Shopping' and 'Proceed to Checkout' buttons.

## Testing the Application

Once your e-commerce website is running, test the core functionality:

1. **Browse Products:** Navigate through the home page and click on different products
2. **Add to Cart:** Add several items to your shopping cart
3. **View Cart:** Go to the shopping cart page to see your items
4. **Update Quantities:** Try changing item quantities
5. **Remove Items:** Test the item removal functionality

If not work, describe the problem as prompt and send to Kiro for debug. Here are [some common issues](#) for reference.

After testing the application, send the prompt below to stop the E-commerce website:

Stop the application



## Troubleshooting Common Issues

**Home Page not showing any product** If you encounter problems with the frontend/backend/database communication, for example no product show in home page, send this prompt to Kiro:

Home page doesn't show any product



**Shopping Cart function not working** If you encounter problems with the functionality, for example item removal in Shopping Cart, send this prompt to Kiro:

Shopping Cart's item removal function is not working



**Application won't start** If the application fails to start, try:

The application is not starting properly.



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