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Event dashboard ❯ Introduction

Introduction

Use Kiro to build E-commerce Website with AI Agent Chatbot

Welcome to this hands-on workshop where you'll learn to build a complete e-commerce website enhanced with an intelligent AI agent chatbot using Kiro, an AI-powered development environment. This workshop demonstrates how modern AI tools can accelerate full-stack development from concept to production-ready applications.

What is Kiro?

Kiro is an agentic IDE that helps you go from prototype to production with spec-driven development, agent hooks, and natural language coding assistance. Build faster with AI-powered features that understand your entire codebase, turn prompts into structured specs, and automate repetitive tasks.

Core Capabilities

- **Specs –** Plan and build features using structured specifications that break down requirements into detailed implementation plans
- **Hooks –** Automate repetitive tasks with intelligent triggers that respond to file changes and development events
- **Agentic Chat –** Build features through natural conversation with Kiro that understands your project context
- **Steering –** Guide Kiro's behavior with custom rules and project-specific context through markdown files
- **MCP Servers –** Connect external tools and data sources through the Model Context Protocol
- **Privacy First –** Keep your code secure with enterprise-grade security and privacy

What You'll Build

Throughout this workshop, you'll create a comprehensive **3-tier e-commerce web application** featuring:

- **React-based frontend** with responsive UI and interactive product browsing
- **Node.js backend** with RESTful APIs and business logic
- **SQL database** with proper schema design for products and shopping cart
- **AI-powered chatbot** using Strands Agents SDK and Amazon Bedrock Nova Pro
- **Complete user workflows** including product discovery, cart management, and intelligent assistance

What You'll Learn

This workshop covers five core areas of AI-assisted development:

🚀 **Vibe Coding -** Experience rapid application development through natural language prompts that generate complete full-stack applications in minutes

🎯 **Steering -** Learn to provide contextual guidance and coding standards to your AI agent for consistent, high-quality code generation

🔧 **Model Context Protocol (MCP)** - Integrate external tools and documentation sources to extend your AI agent's capabilities

📋 **Spec-Driven Development -** Master structured development workflows with formal requirements, design, and implementation phases

⚡ **Agent Hooks -** Automate development workflows with event-driven AI agent executions

This workshop demonstrates how AI-powered development tools can transform the software development lifecycle, enabling developers to build complex applications faster while maintaining code quality and following best practices.

Next