## **GPRC USING JAVA**

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Introduction

Microservices with gRPC

What you should know

1. Introduction to gRPC Inter-service communication

gRPC framework overview

gRPC framework features

gRPC foundations

HTTP/1 problems

How is HTTP/2 better?

Understand protocol buffers

Steps to develop a gRPC service

2. Building Blocks of gRPC Using protocol buffers

Using the gRPC API: Download utilities

Service definition using protobuffs Generate stubs using protoc Generated classes walk-through Metadata and channels Types of gRPC calls Day 2 3. Build User Service Using RPC Overview of order management services Create a maven-gRPC project Define user.proto and generate service stubs Database code setup Add database method to get user details Implement service stub Write code to host the user service Day 3 Test the user service 4. Build Order Management Service Using gRPC Define order.proto and generate stubs

Add database method to get orders

Add service method to get order details

Write code to host order service

Test the order service using the client

Recap to connect user and order services

Write a client to call order service

Call order client from user service

Test the full flow of order management

Challenge: Implement add-to-cart use case

Handling Events
Notifications

Day 4

Message packing Using over network

Networking concepts

Ssl Troubleshooting Debugging

Building gRPC microservices in Java: Advanced concepts