Section 1: Introduction

* Preview05:34
* [THEORY] - Need For WebFlux
* [DEMO] - Performance Comparison: Web vs WebFlux
* [THEORY] - Reactive Manifesto

Section 2: Resources

Source code:

<https://github.com/vinsguru/spring-webflux-course>

Section 3: Spring WebFlux

* Introduction
* How Netty Works
* Project Setup
* Simple Math Service - DTO
* Simple Math Service - Service Class
* Simple Math Service - Controller
* Reactive Math Service
* Reactive Math Controller
* Reactive Math Service - DEMO
* WebFlux - Exposing Streaming API
* What happens when subscriber cancels!
* Flux API When Streaming Not Enabled
* Using Reactive Pipeline
* WebFlux - POST API
* Request Header
* Exception Handling - Custom Exception
* Exception Handling - Controller Advice
* Exception Handling - Demo
* Exception Handling - Reactive Error Signal
* Simple Assignment
* Assignment Solution
* Summary

Section 4: Functional Endpoints

* Introduction
* Router Config
* Router Handler
* Exposing Flux Via Functional Endpoint
* Streaming Endpoint
* POST API
* Exception Handling
* Path Based Routing Config
* Request Predicates
* Assignment
* Assignment Solution
* Summary

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Section 5: WebClient

* Introduction
* WebClient Bean
* GET Mono Endpoint
* Step Verifier - Quick Refresh
* GET Mono Refactor
* GET Flux Endpoint
* GET Flux Streaming Endpoint
* POST Request
* Setting Request Header
* Handling Bad Request
* Exchange vs Retrieve
* Query Params
* Setting Auth Token
* Attributes
* Assignment
* Assignment Solution
* Summary

Section 6: Spring Data Reactive MongoDB

* High Level Architecture - Reactive Microservices
* Product-Service - Introduction
* Note On Spring Data Reactive MongoDB
* Project Setup
* [Product-Service] - Packages
* [Product-Service] - DTO & Entity & Repository
* [Product-Service] - Entity DTO Util
* Entity-DTO - Mapper Performance Comparison
* [Product-Service] - Service Layer - Part 1
* [Product-Service] - Service Layer - Part 2
* [Product-Service] - Service Layer - Part 3
* [Product-Service] - Controller with CRUD Operations
* [Product-Service] - Application Properties
* [SpringBoot 2.6 UPDATE]
* [Product-Service] - CRUD Demo
* Note On MongoDB
* Assignment
* Assignment Solution
* Installing MongoDB
* Setting Up MongoDB
* End To End Testing With MongoDB
* [Product-Service] - Data Setup
* Additional Material On Spring Data Reactive MongoDB

Section 7: Spring Data R2DBC

* Introduction
* R2DBC Drivers
* Note On R2DBC
* Project Setup
* [User-Service] - DTO
* [User-Service] - Entity
* [User-Service] - Repository
* [User-Service] - Entity DTO Util
* [User-Service] - Service Layer
* [User-Service] - Controller
* [User-Service] - User Balance Update - R2DBC with @Query
* [User-Service] - Transaction DTO Util
* [User-Service] - Transaction Service
* Transaction Management
* [User-Service] - Transaction Controller
* R2DBC Drivers
* R2DBC Properties
* Tables Creation
* [User-Service] - CRUD DEMO
* [User-Service] - DELETE User Issue Fix
* Assignment
* Assignment Solution
* [OPTIONAL] - Postgres Install
* [OPTIONAL] R2DBC With Postgres