_nology

Full-Stack Project

Final Weeks

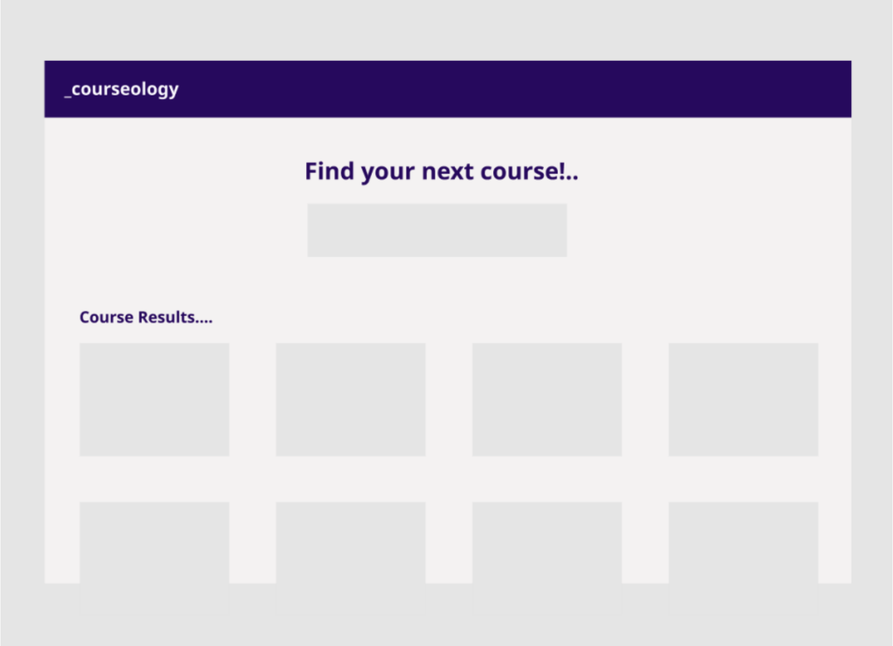
Overview

To solidify the concepts we've covered in Java, Spring, MySQL, & React you're going to build a full-stack web application which combines these technologies. The application needs to be able to CRUD a particular database and will be based on a course and students structure 😊

Steps

#1 Build your new react frontend

In our example, we'll use 'courses' as our resource we're going to CRUD. Start by running 'npx create-react-app courseology-frontend' to generate a new react project. Start by creating a home page to show courses fetched via GET /courses

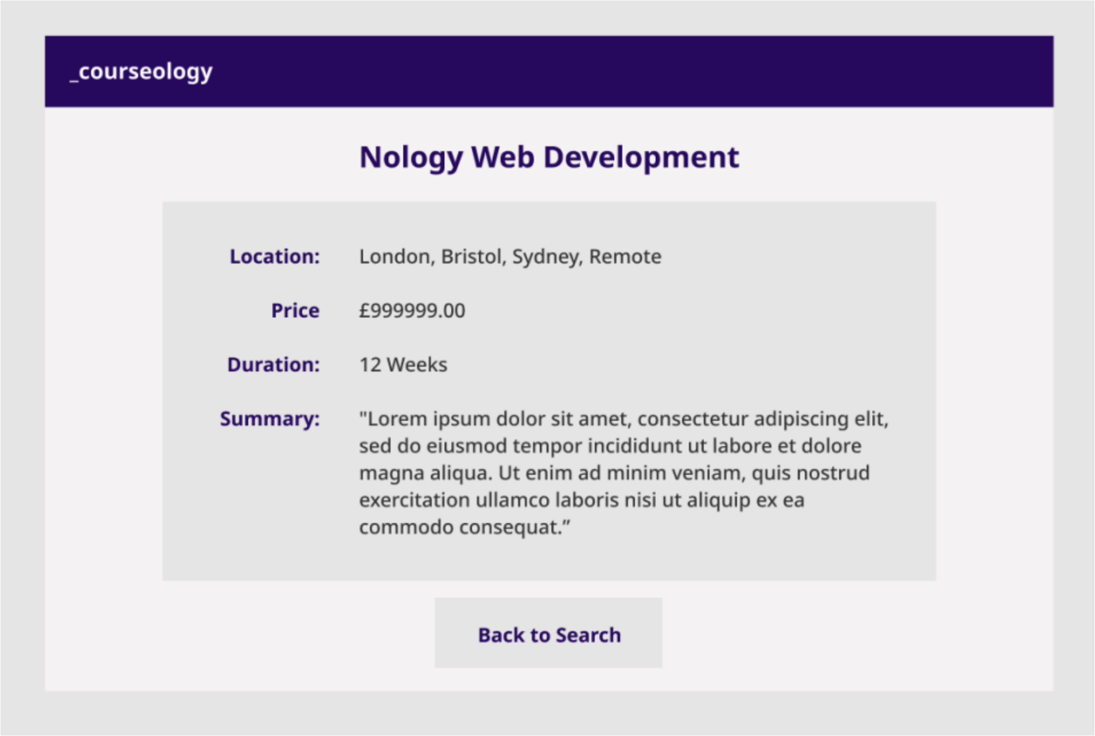


#2 – Generate a Java Backend for your Frontend

Generate a new Java Spring backend via https://start.spring.io. Make sure to select "Maven Project", "Java v11", and "**Spring Web**, **MySQL Driver**, **Spring Data JPA**" dependencies. Once you have this running, create a controller called "CourseController" which responds with some data.

#3 – Create a page for showing each individual course/product/review

The data for this should be available from GET courses/{courseId}



Nology Web Development

Location: London, Bristol, Sydney, Remote

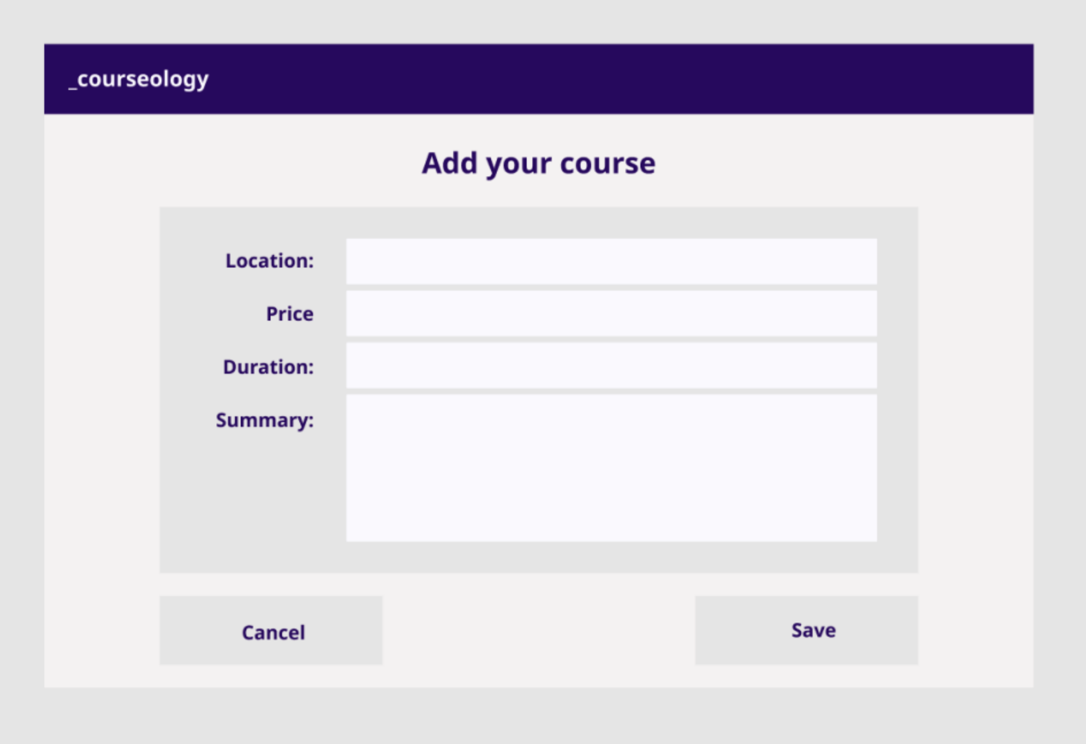
Price £999999.00

Duration: 12 Weeks

Summary: "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat."

#4 – Create a page for people to add their courses

The form should send data to the POST course and return the newly created resource or resource Id. Remember to use a 201 status code for Accepted



_courseology

Add your course

Location:	
Price	
Duration:	
Summary:	

#5 – What's next?.. Well that’s up to you...

Consider adding DELETE functionality so courses can be removed? Perhaps a “like/favourite/save” button which saves the course and can be seen on a “favourites” page? Or review your UI/Look-and-feel by researching designs on dribbble.com to improve upon your frontend?

Specifications

Setup

- Make a folder called “full-stack-project”
- Inside you should have 2 sub folders/apps
    - a React app
    - a SprintBoot app

Safety

- You are fine to commit your week in the beginning, however remember that once you get onto your database connection you need to abstract out your password(s) into a file that isn't git tracked
- No context related to the bank
    - Ids
    - Emails
    - Titles
    - etc

Data Structure

- I would advise you to think of your data structure first, think….
    - What should a student/user have (name, email, interestedIn etc)
    - What should a course have(name, category, completionTime, price, syllabus, author etc)
    - You can use something like MURAL to plan out your structure

We’ll review how everyone is progressing with this challenge, but for now…. **Good luck!**