

Sprint 2

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Trello Link:

<https://trello.com/b/ytqCp3R9/2021-cs5500-full-summer>

Github Link:

<https://github.com/telvinzhong/Java-Database-Analytics>

Stories from start of sprint:

Set up spring RESTful Web Service (3points)

Set up mongo server and connect to database (2 points)

RESTful APIs (3 points)

All stories were delivered without major issues.

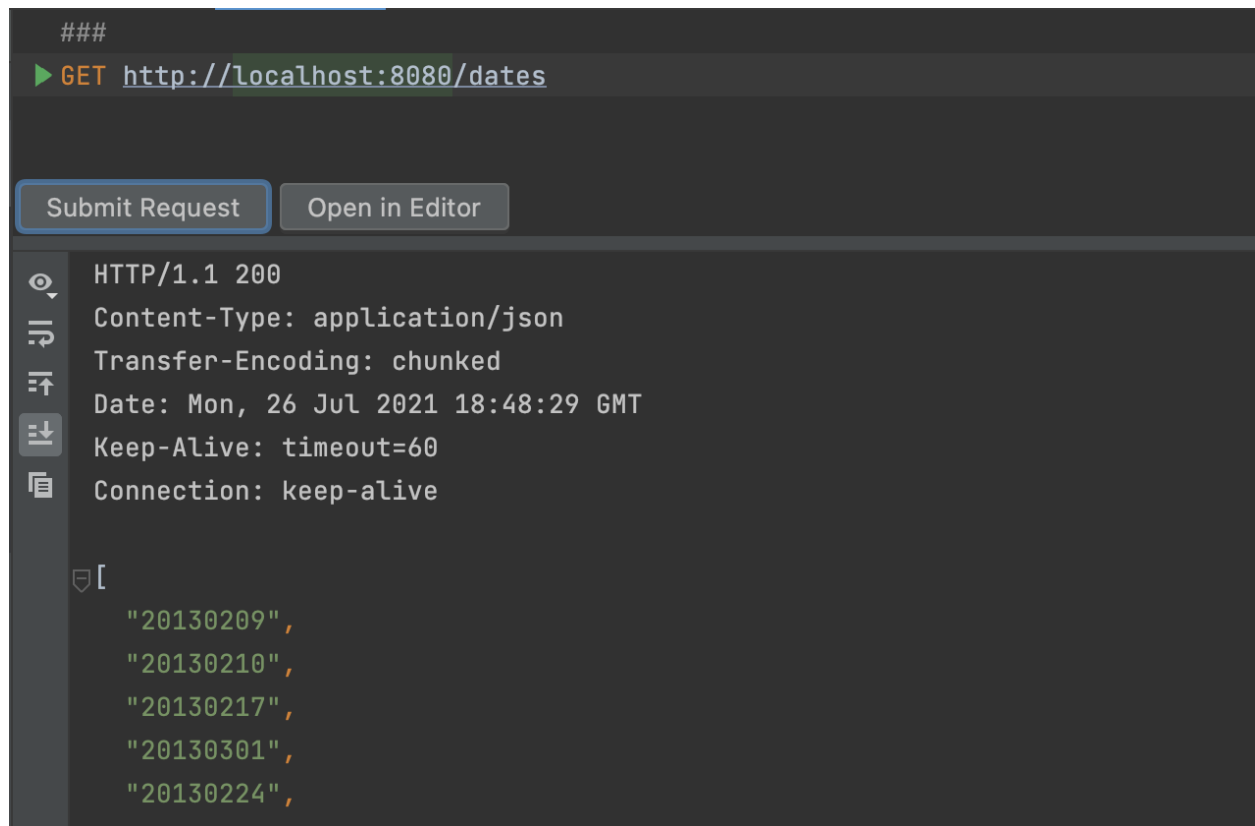
Our goals from Sprint 1 going up to Spring 2 prioritized code implementation, including initializing a boilerplate Spring framework, connecting to our database cloud using Java and MongoDB libraries, and creating functional GET APIs to query the data and subsets of data and testing them via postman.

Functionality:

Spring server runs

Cloud cluster is connected

APIs can fetch subsets of data (Example below)

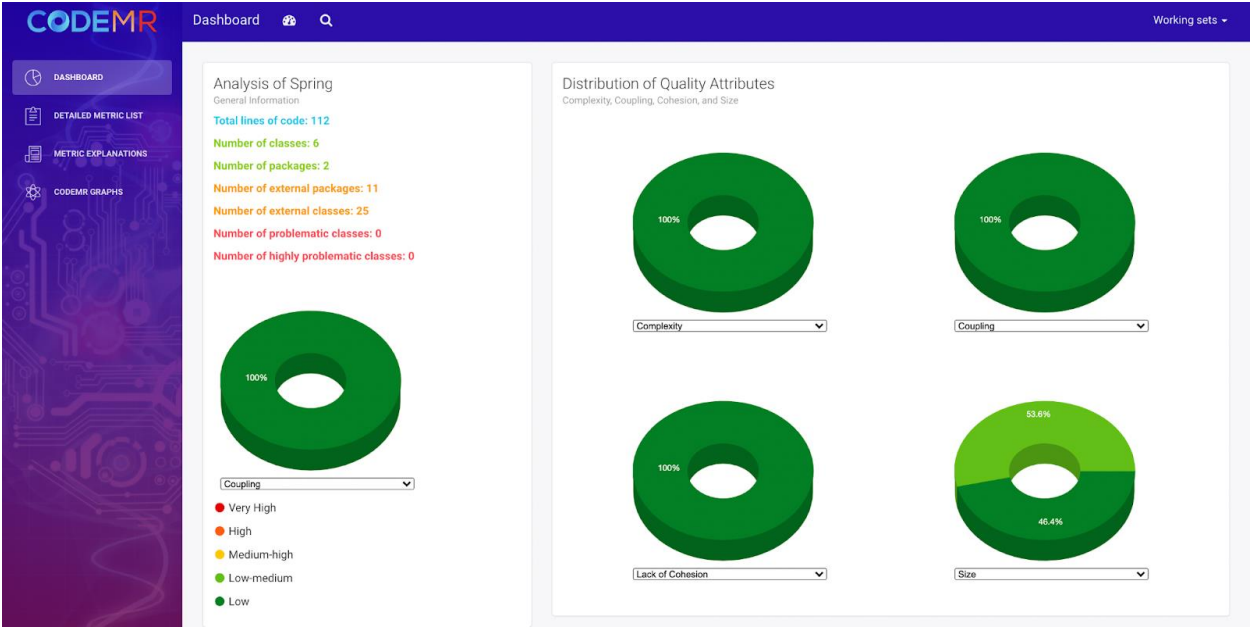


Code Quality self assessment:

The code follows most Java conventions of good practices and I think we did a decent job of formatting our results and minimizing terminal clutter. Professor provided good feedback on refactoring into a service/controller architecture that we will look into. I'd also personally prefer adding more comments to make our code more readable for each other and having a sync to make sure that the various components are working together properly. Future additions to the code will most likely be vertical instead of horizontal so I don't expect our codebase to become too messy or complicated.

The main reason why we are satisfied with the work, I think we have built an example and make sure it works the way we want. And we had the spring framework and connected it to the database cloud. I think personally What we need to improve is make the codes cleaner and easier to read for everyone.

CodeMR report:



List of all classes (#6)

ID	CLASS	COUPLING	COMPLEXITY	LACK OF COHESION	SIZE	LOC	COMPLEXITY	COUPLING	LACK OF COHESION	SIZE
1	MavenWrapperDownl...	<div></div>	<div></div>	<div></div>	<div></div>	60	low	low	low	low-medium
2	User	<div></div>	<div></div>	<div></div>	<div></div>	17	low	low	low	low
3	RestServiceApplic...	<div></div>	<div></div>	<div></div>	<div></div>	14	low	low	low	low
4	Greeting	<div></div>	<div></div>	<div></div>	<div></div>	10	low	low	low	low
5	GreetingController	<div></div>	<div></div>	<div></div>	<div></div>	10	low	low	low	low
6	UserRepository	<div></div>	<div></div>	<div></div>	<div></div>	1	low	low	low	low