

Backend Documentation

This backend service utilizes the Spring framework and will be used as the template for our team to build features.

Amazon Relational Database Service (RDS)

The Amazon RDS database is currently live and will work with this service.

I have created some basic endpoints so that you can test queries to the database hosted on AWS.

I suggest using Postman and MySQL Workbench when making requests to the endpoints so that you can verify the data.

GET endpoints

/home	Returns HTML document
/get-users	Returns JSON array of all users
/get-bugs	Returns JSON array of all bugs

POST endpoints (Requires JSON format)

/create-bug	Inserts a bug into the database
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Request Body

title	string
bug_description	string
*due_date	string
assigned_to	string
created_by	string
severity	string
bug_status	string

*due_date requires the following formatting: YYYY-MM-DD

Request example

```
{
  "title": "Error on page",
  "bug_description": "There is an error on the page",
  "due_date": "2021-07-11",
  "assigned_to": "1",
  "created_by": "1",
  "severity": "HIGH",
  "bug_status": "OPEN"
}
```

I added a value generator so that the id in the database entry automatically increments.

Amazon AWS Role accounts

~~I have created AWS role accounts with limited functionality for the team. I am currently in the process of testing them and hope to have them ready by the end of the week. With these accounts you will be able to access the database.~~

Instead of using IAM role accounts I think it would be best if we just used one account for the database. The account credentials should be used as environment variables on your computer. I will distribute the credentials later this week.

Your IP address is required so that I can add you to the RDS instance security group.

Requirements

- Spring
- MySQL Community Workbench
- IDE (I recommend IntelliJ)

Dependencies are included in the POM document and should download automatically.

Spring Security dependencies are not included in this template but can be added later.

Setup

This service is ready to go with the only exception being the properties file which houses key/value pairs that Spring uses for application configuration.

Spring configuration contains sensitive information so I removed the values. Project configuration details will be provided to the team later this week.

Location of configuration file within file hierarchy:

```
src → main → resources → application.properties
```

More information on application properties can be found here:

<https://docs.spring.io/spring-boot/docs/current/reference/html/application-properties.html>