

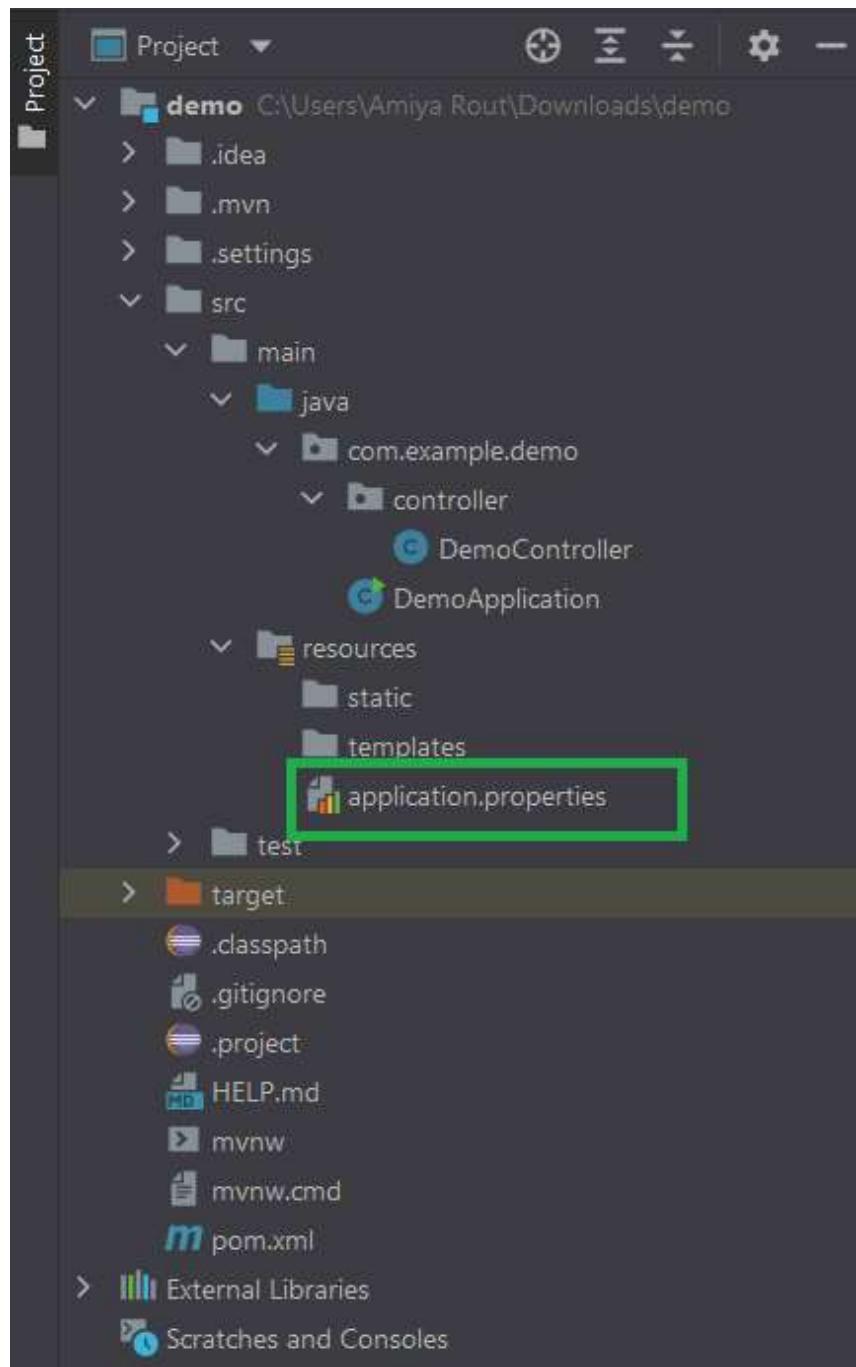
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Spring Boot - Application Properties

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In Spring Boot applications, configuration plays a very important role in customizing the behavior of the application. Instead of hardcoding values in the code, Spring Boot provides a flexible way to configure application settings using the **application.properties** or **application.yml** file.

These files allow developers to manage environment-specific settings such as database configuration, server port, logging level and much more, making the application more maintainable and portable. The image below describes the Location of application.properties.



Why Use application.properties?

- Centralized configuration management.
- Easy to override default Spring Boot settings.
- Provides flexibility for different environments (dev, test, prod).
- Reduces hardcoding in source code.

Commonly Used Properties

1. Server Configuration

You can change the default port (8080) of a Spring Boot application by setting the property `server.port` in the `application.properties` file. For example: `server.port=8989`

The screenshot shows the IntelliJ IDEA interface with a project named "demo". In the "Run" tab, the application is being run, and the output window shows the application starting on port 8989. The `application.properties` file in the resources directory is open, and the line `server.port=8989` is highlighted.

```

server.port=8989
  
```

2. Defining the Application Name

We can set a custom name for your Spring Boot application using the `spring.application.name` property in the `application.properties`.

Example:

`spring.application.name=userservice`

This represents the property as a key-value pair, where each key is associated with a corresponding value.

2. Database Configuration

To connect your Spring Boot application with a database, specify the required properties such as `spring.datasource.url`, `spring.datasource.username` and `spring.datasource.password` in the

application.properties file. These properties vary depending on the database (e.g., MySQL, PostgreSQL, Oracle).

For MySQL Database:

```
spring.datasource.url=jdbc:mysql://localhost:3306/mydb  
spring.datasource.username=root  
spring.datasource.password=admin  
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
```

For PostgreSQL Database

```
spring.datasource.url=jdbc:postgresql://localhost:5432/Postgres  
atasource.username=postgres  
spring.datasource.password=postgres  
spring.jpa.database-  
platform=org.hibernate.dialect.PostgreSQLDialect  
spring.jpa.show-sql=true
```

For MongoDB

```
spring.data.mongodb.host=localhost  
spring.data.mongodb.port=27017  
spring.data.mongodb.database=BookStore
```

Hibernate (JPA) Settings

```
spring.jpa.hibernate.ddl-auto=update  
spring.jpa.show-sql=true
```

3. Connecting with an Eureka Server

Eureka Server acts as a service registry in microservices architecture. Each microservice registers itself to Eureka, which maintains service discovery details.

```
eureka.client.register-with-eureka=true  
eureka.client.fetch-registry=true
```

```
eureka.client.service-url.defaultZone=http://localhost:9096/eureka/  
eureka.instance.hostname=localhost
```

Note: The values provided are sample data. Please update them according to your database configuration. However, the keys remain the same.

Using application.yml Instead of application.properties

The application.properties file is not very readable when dealing with complex configurations. Most developers prefer using application.yml (YAML format) instead. YAML is a superset of JSON and provides a more structured and readable way to define hierarchical configuration data. Let's convert some of the previous examples into YAML format.

Case 1: Connecting with a MySQL Database

Let's pick above example 3 where we were connecting with the MySQL Database, the corresponding properties will be as follows:

```
spring:  
  datasource:  
    url: jdbc:mysql://${MYSQL_HOST:localhost}:3306/db_example  
    username: springuser  
    password: ThePassword  
    driver-class-name: com.mysql.cj.jdbc.Driver  
  jpa:  
    hibernate:  
      ddl-auto: update
```

Case 2: Connecting with an Eureka Server

Let's pick above example 6 where we were connecting with the Eureka Server, the corresponding properties will be as follows:

```
eureka:  
  client:  
    register-with-eureka: true
```

```
fetch-registry: true
service-url:
  defaultZone: http://localhost:9096/eureka/
instance:
  hostname: localhost
```

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