

## Spring Security Config

### Project Dependency

- Spring boot starter security
- mysql-connector-j

1. Create `@Configuration` file for to add Security Filters.
2. Create users with roles using one of the following method –
  - a. Using `InMemoryUserDetailsManager`
  - b. Using `JdbcUserDetailsManager`
    - Create `User` and `Authorities` tables in DB
    - Add following properties to the application.yml file -
      - i. `spring.datasource.url = jdbc:mysql://localhost:3306/accountsdb`
      - ii. `spring.datasource.username = root`
      - iii. `spring.datasource.password = root`
    - Create bean and autowired the data source –

```
@Bean
public UserDetailsManager userDetailsManager(DataSource dataSource){
    return new JdbcUserDetailsManager(dataSource);
}
```

- Create `@Bean` for `SecurityFilters` in `@Configuration` file

Docker command to run MYSQL Database -

```
docker run -p 3306:3306 --name=accountsdb -e MYSQL_ROOT_PASSWORD=root -e
MYSQL_DATABASE=accountsdb -d mysql
```