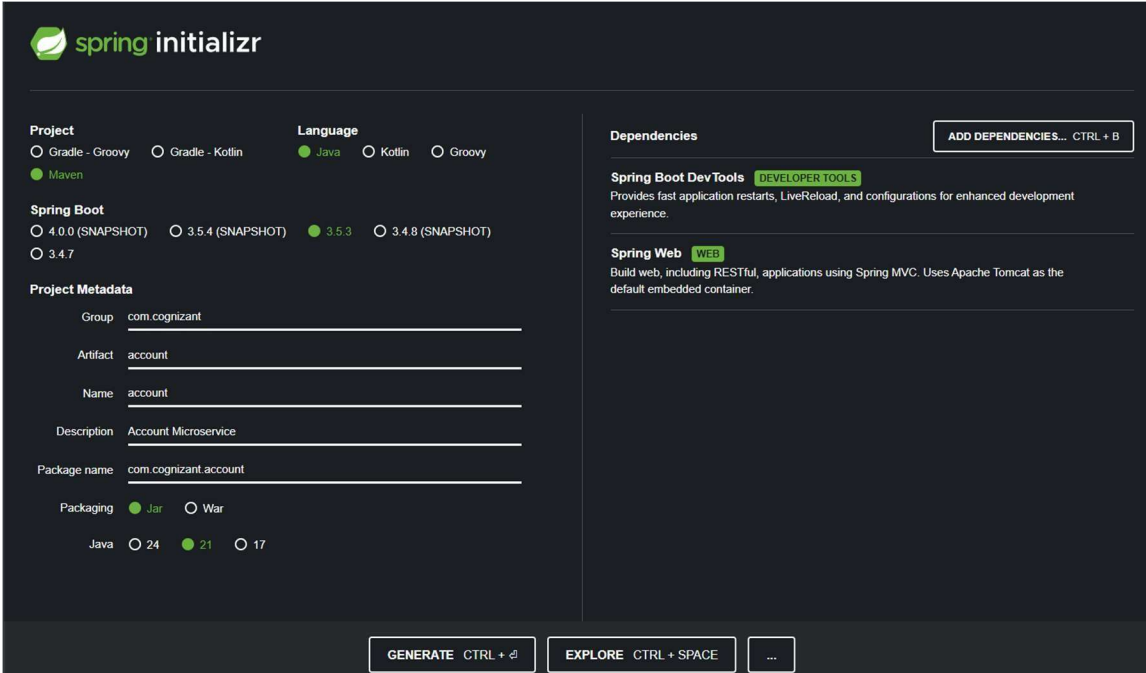


# Creating Microservices for account and loan

## Account:

Opened <https://start.spring.io/> in browser

And added the following requirements



The image shows the Spring Initializr web form. The 'Project' section has 'Maven' selected. The 'Language' section has 'Java' selected. The 'Spring Boot' section has '3.5.3' selected. The 'Project Metadata' section has the following values: Group: com.cognizant, Artifact: account, Name: account, Description: Account Microservice, Package name: com.cognizant.account, Packaging: Jar, Java: 21. The 'Dependencies' section has 'Spring Boot DevTools' and 'Spring Web' selected. At the bottom, there are buttons for 'GENERATE', 'EXPLORE', and a menu icon.

**Project**

☐ Gradle - Groovy ☐ Gradle - Kotlin ☒ Java ☐ Kotlin ☐ Groovy

☒ Maven

**Spring Boot**

☐ 4.0.0 (SNAPSHOT) ☐ 3.5.4 (SNAPSHOT) ☒ 3.5.3 ☐ 3.4.8 (SNAPSHOT)

☐ 3.4.7

**Project Metadata**

Group:

Artifact:

Name:

Description:

Package name:

Packaging: ☒ Jar ☐ War

Java: ☐ 24 ☒ 21 ☐ 17

**Dependencies**

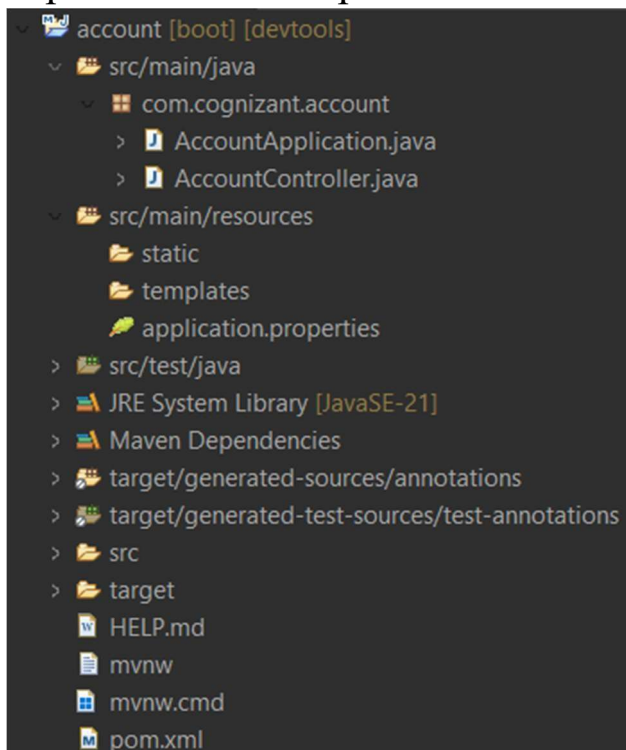
**Spring Boot DevTools** DEVELOPER TOOLS  
Provides fast application restarts, LiveReload, and configurations for enhanced development experience.

**Spring Web** WEB  
Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

**ADD DEPENDENCIES...** CTRL + B

**GENERATE** CTRL + G **EXPLORE** CTRL + SPACE ...

And then generated it and extracted it into the required folder then imported it into eclipse



Created AccountController.java

```
1 package com.cognizant.account;
2
3 import org.springframework.web.bind.annotation.*;
4
5 @RestController
6 @RequestMapping("/accounts")
7 public class AccountController {
8
9     @GetMapping("/{number}")
10    public Account getAccountDetails(@PathVariable String number) {
11        return new Account(number, "savings", 234343);
12    }
13 }
14
15 class Account {
16     private String number;
17     private String type;
18     private double balance;
19
20     public Account(String number, String type, double balance) {
21         this.number = number;
22         this.type = type;
23         this.balance = balance;
24     }
25
26     // Getters
27     public String getNumber() { return number; }
28     public String getType() { return type; }
29     public double getBalance() { return balance; }
30 }
31
```

Updated the server port number to 8081 in application.properties

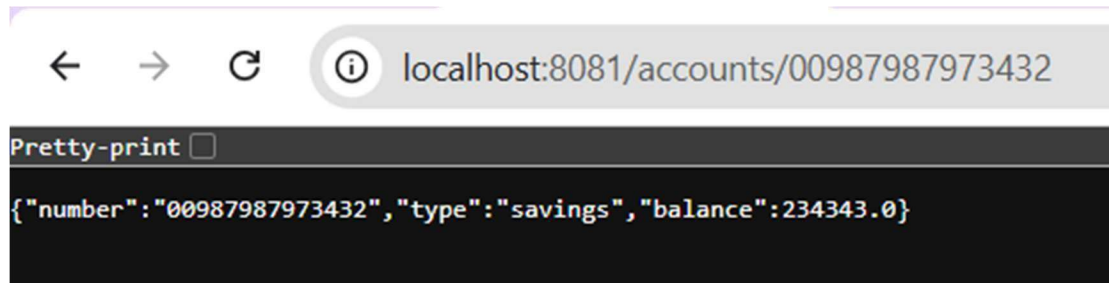
```
1 spring.application.name=account
2 server.port=8081
3
```

Executed AccountApplication.java

```
1 package com.cognizant.account;
2
3 import org.springframework.boot.SpringApplication;
4
5
6 @SpringBootApplication
7 public class AccountApplication {
8
9     public static void main(String[] args) {
10         SpringApplication.run(AccountApplication.class, args);
11     }
12 }
13
14 |
```

Console displayed that tomcat is running at port 8081

OUTPUT:



← → ↻ ⓘ localhost:8081/accounts/00987987973432

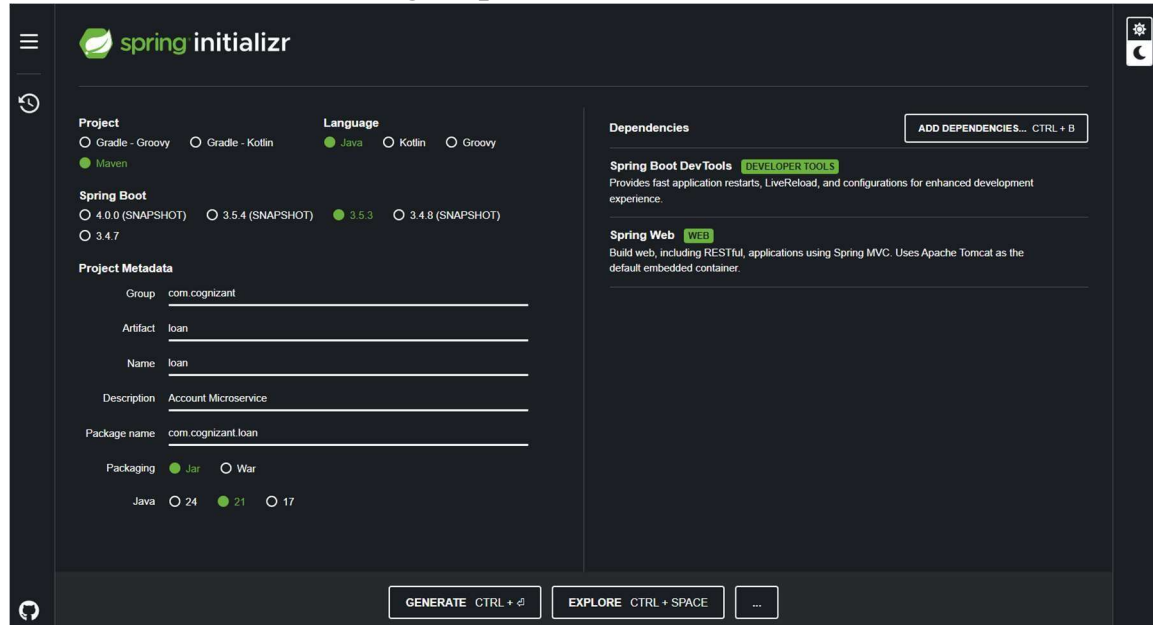
Pretty-print ☐

```
{ "number": "00987987973432", "type": "savings", "balance": 234343.0 }
```

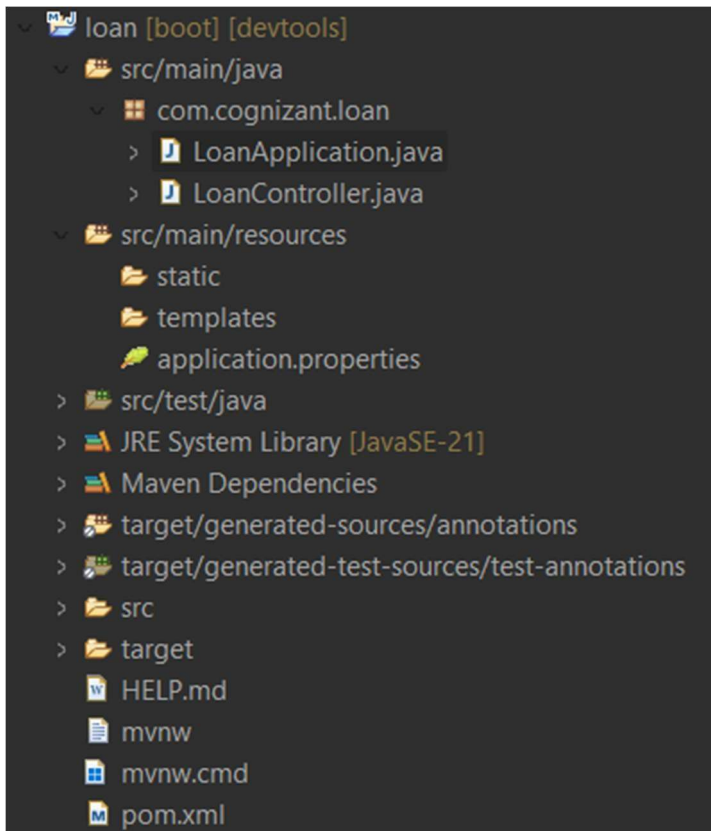
Loan:

Opened <https://start.spring.io/> in browser

And added the following requirements



And then generated it and extracted it into the required folder and then imported it into eclipse



Created LoanController.java

```
1 package com.cognizant.loan;
2
3 import org.springframework.web.bind.annotation.*;
4
5 @RestController
6 @RequestMapping("/loans")
7 public class LoanController {
8
9     @GetMapping("/{number}")
10    public Loan getLoanDetails(@PathVariable String number) {
11        return new Loan(number, "car", 400000, 3258, 18);
12    }
13 }
14
15 class Loan {
16     private String number;
17     private String type;
18     private double loan;
19     private int emi;
20     private int tenure;
21
22     public Loan(String number, String type, double loan, int emi, int tenure) {
23         this.number = number;
24         this.type = type;
25         this.loan = loan;
26         this.emi = emi;
27         this.tenure = tenure;
28     }
29
30     // Getters
31     public String getNumber() { return number; }
32     public String getType() { return type; }
33     public double getLoan() { return loan; }
34     public int getEmi() { return emi; }
35     public int getTenure() { return tenure; }
36 }
```

Updated the server port number to 8082 in application.properties

```
1 spring.application.name=loan
2 server.port=8082
```

Then executed LoanApplication.java class

```
1 package com.cognizant.loan;
2
3 import org.springframework.boot.SpringApplication;
4
5
6 @SpringBootApplication
7 public class LoanApplication {
8
9     public static void main(String[] args) {
10         SpringApplication.run(LoanApplication.class, args);
11     }
12
13 }
14
```

Console displayed tomcat is running at port 8082

OUTPUT:

