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| Student Name | Sameer Sharma |
| Course Name | Caltech Coding Bootcamp |
| Cohort Information | CB FSD OCT 2024 COHORT 1 |
| Course # | 3 |
| Course Title | API End Points and Communication |
| Project | Course-end Project 1 – My Cab Buddy |

# Problem Statement

George owns a travel company where he books cabs for his customers. To manage these bookings, he needs travel management software. He meets Kia, who runs a Software Solution Company and tells her the requirement.

Kia aims to develop the project using Spring and the Spring Boot Framework. She must create micro-services to provide a solution using a REST architecture and perform unit testing for various web methods.

## Approach

### Booking

BookingID (unique/PK)

Pickup location (Source)

Destination

Distance

Rate

Final Amount

Confirmation Number (unique)

Email (Customer email)

### Customer

CustomerID (unique/PK)

Name

Email (unique)

PhoneNumber

PaymentMethod

### Fare Calculator

Pickup location (Source)

Destination

Distance

Rate

Final Amount

### Architecture

Eureka Server

Micro-Service #1 – Booking (contains both Book and Customer class)

Micro-Service #2 – Fare Calculation (takes details from booking class and returns all necessary details)

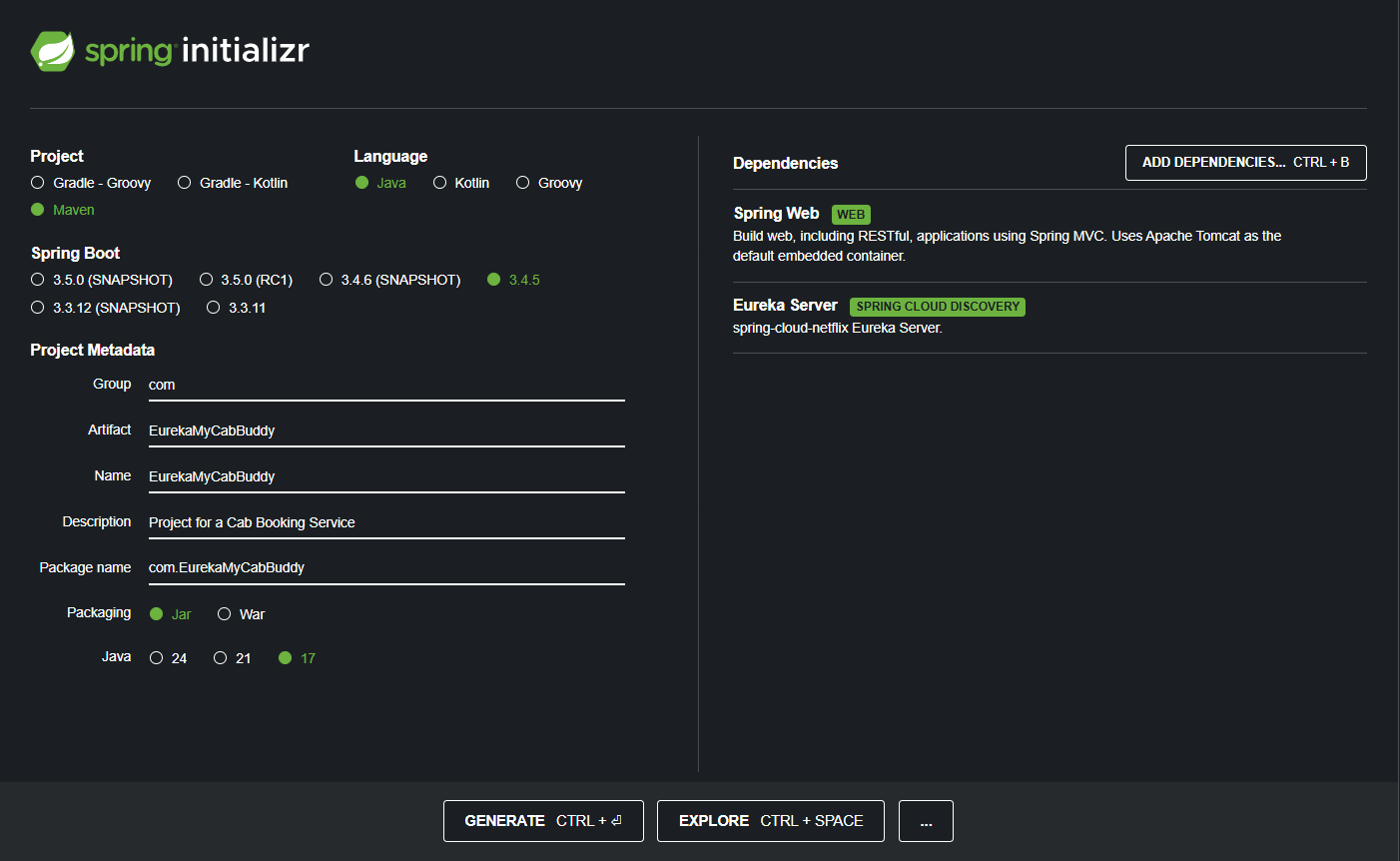
Database – MySQL

View Technology – Thymeleaf

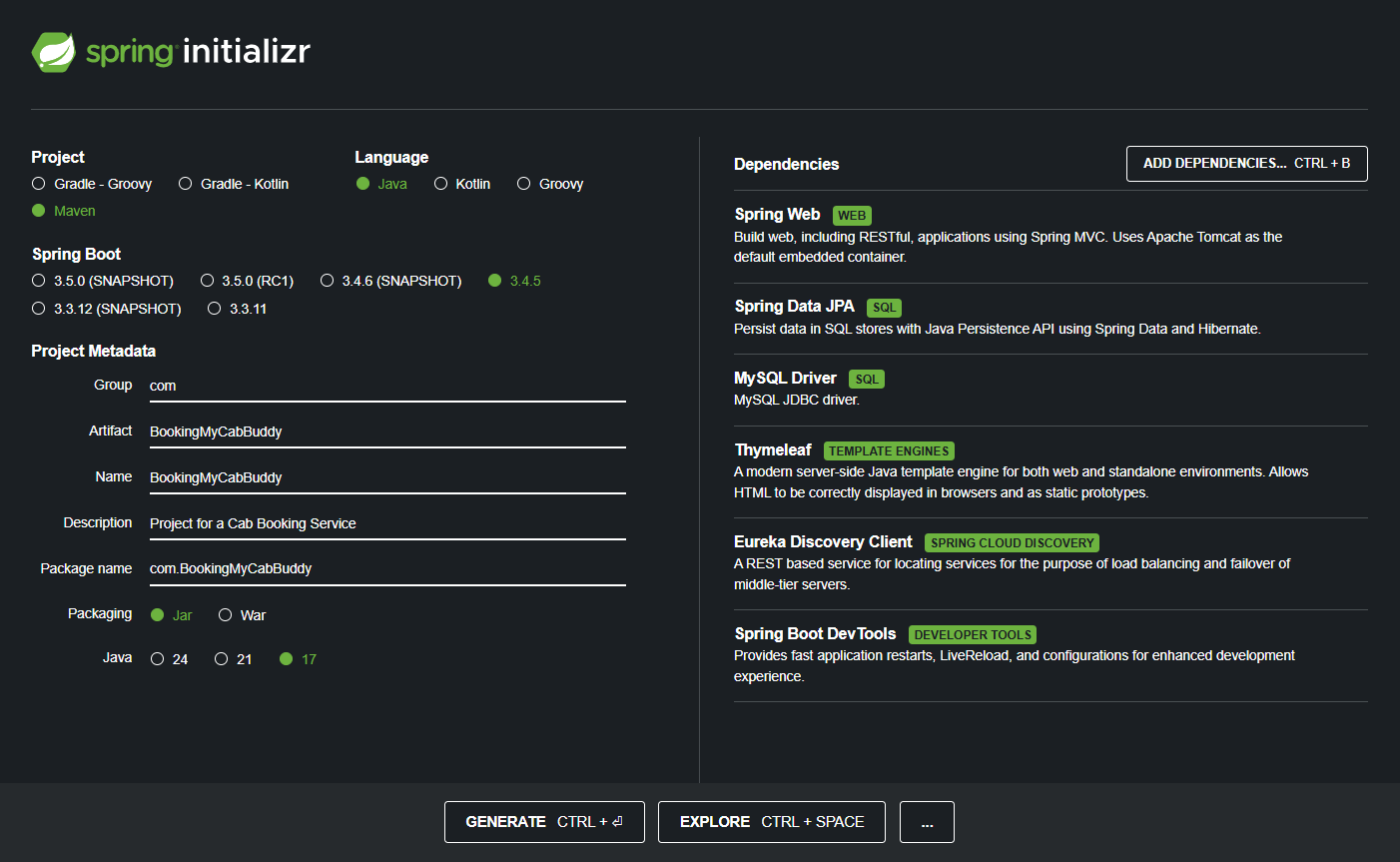
### Project Details

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| Projects | Port Numbers |
| Eureka server | 8761 |
| Customer micro-service | 8762 |
| Booking micro-service | 8762 |
| MySQL database name | my\_cab\_buddy |

### Eureka Server (Spring Initializr)



### Booking Project (Spring Initializr)



### Fare Calculation (Spring Initializr)

