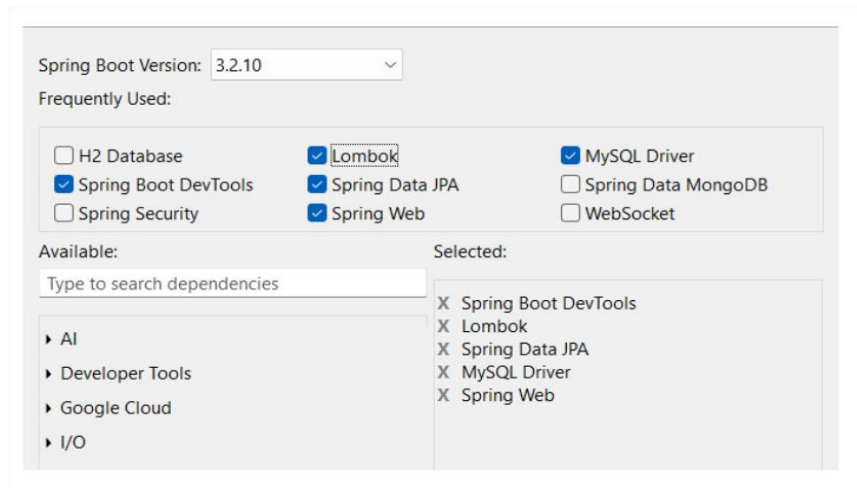


## 5.Quiz Application 1

### (Spring Boot, MySQL/Postgres)

#### Create Project with Dependencies:



The screenshot shows the Spring Boot dependency selection interface. At the top, 'Spring Boot Version' is set to '3.2.10'. Below this, the 'Frequently Used' section contains a grid of checkboxes for various dependencies. The 'Available' section on the left shows a search bar and a list of categories: AI, Developer Tools, Google Cloud, and I/O. The 'Selected' section on the right lists the chosen dependencies with an 'X' in a box next to each name.

Frequently Used:		
<input type="checkbox"/> H2 Database	<input checked="" type="checkbox"/> Lombok	<input checked="" type="checkbox"/> MySQL Driver
<input checked="" type="checkbox"/> Spring Boot DevTools	<input checked="" type="checkbox"/> Spring Data JPA	<input type="checkbox"/> Spring Data MongoDB
<input type="checkbox"/> Spring Security	<input checked="" type="checkbox"/> Spring Web	<input type="checkbox"/> WebSocket

Available:	Selected:
Type to search dependencies	
▶ AI	X Spring Boot DevTools
▶ Developer Tools	X Lombok
▶ Google Cloud	X Spring Data JPA
▶ I/O	X MySQL Driver
	X Spring Web

**Note:** If you work with PostgreSQL or H2 databases, then use PostgreSQL or H2 database dependencies.

#### Project Structure:

- **Main Package Structure:**
  - `src/main/java/com/quizapp/controller/` → Controller layer to handle HTTP requests.
  - `src/main/resources/` → Contains application properties file for configuration.

#### Database Setup (MySQL/PostgreSQL):

#### MySQL Configuration:

```
spring.application.name=QuizApp
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/questiondb
```

```
spring.datasource.username=root
spring.datasource.password=root

# Hibernate configuration
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect

# Create, update, and validate schema
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
```

### Explanation:

- This configuration connects the Spring Boot application to a MySQL database ([questiondb](#)) using Hibernate as the ORM tool.
- [spring.jpa.hibernate.ddl-auto=update](#) ensures that the schema will be updated automatically.

### Controller Layer:

#### Code - QuestionController:

```
@RestController
@RequestMapping("/question")
public class QuestionController {

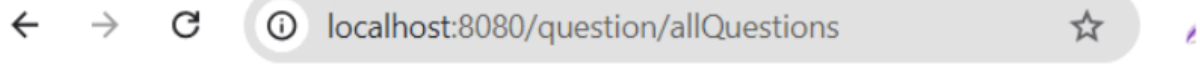
    @GetMapping("/allQuestions")
    public String getAllQuestions() {
        return "Hi, these are your questions";
    }
}
```

### Explanation:

- The [@RestController](#) annotation marks this class as a Spring REST controller, which handles HTTP requests.
- The [@RequestMapping\("/question"\)](#) maps the base URL.
- The [@GetMapping\("/allQuestions"\)](#) defines a GET request handler for retrieving all questions.

## URL to Test:

- Access the controller via [localhost:8080/question/allQuestions](http://localhost:8080/question/allQuestions) to retrieve the list of questions.



Hi, these are your questions