# README - Traini8 Backend Project Setup Instructions

## 1. Project Overview

This is a Spring Boot project for Traini8, a registry for Government-funded Training Centers.

It contains REST APIs to create and list training centers with proper validations and database storage.

- 2. Prerequisites
- Java 17 or above
- Maven
- MySQL Database
- Postman (for API testing)
- IDE (IntelliJ IDEA / Eclipse / VS Code)
- 3. Project Setup Instructions
- Step 1: Clone the Repository or Unzip the project folder.
- Step 2: Open the project in your preferred IDE.
- Step 3: Create a MySQL database named 'traini8db'.
- Step 4: Update application.properties file with your MySQL credentials.

Example: spring.datasource.url=jdbc:mysql://localhost:3306/traini8db spring.datasource.username=root spring. datasource.password=your\_password

Step 5: Run the application using your IDE or via terminal using: mvn spring-boot:run

Step 6: The application will start at: http://localhost:8082

### 4. API Endpoints

```
POST / api/training-centers/createtrainingcenter
```

- Description: Create and save a new training center.
- Request Body: JSON format

```
"centerName": "ABC Skills Center",
"centerCode": "ABC123XY7890",
"address": {
```

```
"detailedAddress": "123 Street, Near Metro",
"city": "Bangalore",
"state": "Karnataka",
"pincode": "560001"
},

"studentCapacity": 200,
"coursesOffered": ["Java", "Python"],
"contactEmail": "abc@example.com",
"contactPhone": "9876543210"
}
```

### GET /api/training-centers/ alltrainingcenter

- Description: Retrieve all stored training centers.
- Response: List of training centers in JSON format.
- Notes
- Validation is handled through annotations.
- Exception handling is done globally using @ControllerAdvice.
- 'createdOn' timestamp is auto-generated by the server.
- Ensure the database is running before starting the application.
- 6. Optional Enhancements
- You can add filtering options by city and state in the GET API.
- You may implement pagination for large data.

#### 7. Contact

For any queries, contact your project coordinator.

- 8. Swagger API Documentation
  - Swagger UI is integrated for easy testing and documentation of all APIs.
  - Once the application is running, open your browser and go to:

#### http://localhost:8080/swagger-ui/index.html

 You can explore all available endpoints, request/response formats, and test the APIs directly from the browser.

## Example:

POST /api/centers → Create Training Center GET /api/centers → List All Training Centers