```
Since you already have IntelliJ with Spring Boot, I'll give you the step-
by-step flow starting from scratch, but this time all table creation + DB
schema handled by Spring Boot itself (so you don't need to manually run
SQL in pgAdmin).
We'll keep files under these folders:
controller → REST controllers
dto → Request/Response payloads
entity → JPA entities (tables)
repo → Spring Data JPA repositories
services → Business logic
security → Optional (not needed right now unless auth is required)
___
Step 1: Configure PostgreSQL connection
src/main/resources/application.yml
server:
 port: 8080
spring:
  datasource:
    url: jdbc:postgresql://localhost:5432/RWTOOL
    username: postgres # or your user
    password: 12345
                           # your password
  jpa:
    hibernate:
      ddl-auto: update # auto create/update table
    properties:
     hibernate:
        dialect: org.hibernate.dialect.PostgreSQLDialect
③ With ddl-auto: update, Spring Boot will automatically create the table
from your @Entity.
Step 2: Create the Entity
entity/Report.java
package com.example.rwtool.entity;
```

Perfect • that's the right structure for a clean Spring Boot backend.

```
import jakarta.persistence.*;
import java.time.LocalDateTime;
@Entity
@Table(name = "reports")
public class Report {
    DT D
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    @Column(nullable = false, unique = true, length = 255)
    private String name;
    @Column(nullable = false)
    private String sourcePath;
    private LocalDateTime createdAt = LocalDateTime.now();
    private LocalDateTime updatedAt = LocalDateTime.now();
    @PreUpdate
    public void onUpdate() {
        this.updatedAt = LocalDateTime.now();
    }
    // Getters and setters
    public Long getId() { return id; }
    public void setId(Long id) { this.id = id; }
    public String getName() { return name; }
    public void setName(String name) { this.name = name; }
    public String getSourcePath() { return sourcePath; }
   public void setSourcePath(String sourcePath) { this.sourcePath =
sourcePath; }
    public LocalDateTime getCreatedAt() { return createdAt; }
    public void setCreatedAt(LocalDateTime createdAt) { this.createdAt =
createdAt; }
    public LocalDateTime getUpdatedAt() { return updatedAt; }
    public void setUpdatedAt(LocalDateTime updatedAt) { this.updatedAt =
updatedAt; }
Step 3: Repository
repo/ReportRepository.java
package com.example.rwtool.repo;
```

```
import com.example.rwtool.entity.Report;
import org.springframework.data.jpa.repository.JpaRepository;
public interface ReportRepository extends JpaRepository<Report, Long> {
___
Step 4: DTOs
dto/ReportRequest.java
package com.example.rwtool.dto;
import jakarta.validation.constraints.NotBlank;
public class ReportRequest {
    @NotBlank
    private String name;
    @NotBlank
    private String sourcePath;
    // getters and setters
    public String getName() { return name; }
    public void setName(String name) { this.name = name; }
    public String getSourcePath() { return sourcePath; }
    public void setSourcePath(String sourcePath) { this.sourcePath =
sourcePath; }
}
dto/ReportResponse.java
package com.example.rwtool.dto;
public class ReportResponse {
    private Long id;
    private String name;
    private String sourcePath;
    public ReportResponse(Long id, String name, String sourcePath) {
        this.id = id;
        this.name = name;
        this.sourcePath = sourcePath;
    }
    // getters
    public Long getId() { return id; }
    public String getName() { return name; }
    public String getSourcePath() { return sourcePath; }
```

```
}
Step 5: Service
services/ReportService.java
package com.example.rwtool.services;
import com.example.rwtool.dto.ReportRequest;
import com.example.rwtool.entity.Report;
import com.example.rwtool.repo.ReportRepository;
import org.springframework.stereotype.Service;
import java.util.List;
@Service
public class ReportService {
    private final ReportRepository repo;
    public ReportService(ReportRepository repo) {
        this.repo = repo;
    public List<Report> getAllReports() {
        return repo.findAll();
    public Report addReport(ReportRequest request) {
        Report report = new Report();
        report.setName(request.getName());
        report.setSourcePath(request.getSourcePath());
        return repo.save(report);
    }
    public Report updateReport(Long id, ReportRequest request) {
        Report report = repo.findById(id)
                .orElseThrow(() -> new RuntimeException("Report not
found"));
        report.setName(request.getName());
        report.setSourcePath(request.getSourcePath());
        return repo.save(report);
    }
    public void deleteReport(Long id) {
        repo.deleteById(id);
    }
}
```

```
Step 6: Controller
controller/ReportController.java
package com.example.rwtool.controller;
import com.example.rwtool.dto.ReportRequest;
import com.example.rwtool.dto.ReportResponse;
import com.example.rwtool.entity.Report;
import com.example.rwtool.services.ReportService;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@RestController
@RequestMapping("/api")
@CrossOrigin(origins = "*")
public class ReportController {
    private final ReportService service;
    public ReportController(ReportService service) {
        this.service = service;
    @GetMapping("/fetch-all-report")
    public List<ReportResponse> getAllReports() {
        return service.getAllReports().stream()
                .map(r -> new ReportResponse(r.getId(), r.getName(),
r.getSourcePath()))
                .toList();
    }
    @PostMapping("/newreport")
    public ReportResponse createReport(@RequestBody ReportRequest req) {
        Report saved = service.addReport(reg);
        return new ReportResponse(saved.getId(), saved.getName(),
saved.getSourcePath());
    }
    @PutMapping("/reports/{id}")
    public ReportResponse updateReport(@PathVariable Long id,
@RequestBody ReportRequest req) {
        Report updated = service.updateReport(id, req);
        return new ReportResponse(updated.getId(), updated.getName(),
updated.getSourcePath());
    @DeleteMapping("/reports/{id}")
    public ResponseEntity<Void> deleteReport(@PathVariable Long id) {
        service.deleteReport(id);
        return ResponseEntity.noContent().build();
```

```
}
Step 7: Run & Test
1. Run Spring Boot app (RwtoolApplication main class).
2. Open Postman and test:
GET http://localhost:8080/api/fetch-all-report
POST http://localhost:8080/api/newreport → Body (JSON):
{ "name": "KYC Reports", "sourcePath": "/system/reports/in/kyc/" }
PUT http://localhost:8080/api/reports/1
DELETE http://localhost:8080/api/reports/1
Spring Boot will auto-create the reports table in RWTOOL DB, so you don't
need to manually write SQL.
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☞ Do you want me to also prepare a ready-to-import Postman collection so
you can test all endpoints quickly?
```