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Problem 1: Employee Attendance Tracker ------
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// Approach: We create Employee and Attendance entities. Use Spring Data JPA for persistence, REST controllers for attendance marking and report viewing, and Spring Security for role-based access.

```
@Entity
public class Employee {
  @ld
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private Long employeeld;
  private String name;
  private String department;
  private String designation;
}
@Entity
public class Attendance {
  @ld
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private Long attendanceld;
  @ManyToOne
  @JoinColumn(name = "employee_id")
  private Employee employee:
  private LocalDate date;
  private String status;
}
@RestController
@RequestMapping("/attendance")
public class AttendanceController {
  @Autowired
  private AttendanceService service;
  @PostMapping("/mark")
  @PreAuthorize("hasRole('EMPLOYEE')")
  public ResponseEntity<?> markAttendance(@RequestBody AttendanceDTO dto) {
    service.markAttendance(dto);
    return ResponseEntity.ok("Attendance marked");
  }
  @GetMapping("/report")
  @PreAuthorize("hasRole('MANAGER')")
  public List<AttendanceReport> getReport() {
    return service.generateReport();
  }
}
```