```
package com.capitalhr.erp;
import org.springframework.boot.SpringApplication;
import\ org. spring framework. boot. autoconfigure. Spring Boot Application;
@SpringBootApplication
public class CapitalHrErpApplication {
    public static void main(String[] args) {
        SpringApplication.run(CapitalHrErpApplication.class, args);
}
// Core Modules
// 1. User Management
package com.capitalhr.erp.user;
@Entity
public class User {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private String username;
    private String password;
    private String role;
    // Other fields, getters, setters
@Repository
public interface UserRepository extends JpaRepository<User, Long> {
    User findByUsername(String username);
@Service
public class UserService {
   @Autowired
   private UserRepository userRepository;
   // User CRUD operations
// 2. Employee Management
package com.capitalhr.erp.employee;
@Entity
public class Employee {
   @Id
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
private String name;
private String department;
   private String position;
    // Other fields, getters, setters
@Repository
public interface EmployeeRepository extends JpaRepository<Employee, Long> {}
public class EmployeeService {
   @Autowired
   private EmployeeRepository employeeRepository;
   // Employee CRUD operations
// 3. Attendance Management
package com.capitalhr.erp.attendance;
@Entity
public class Attendance {
```

```
@Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   @ManyToOne
   private Employee employee;
   private LocalDateTime checkInTime;
    private LocalDateTime checkOutTime;
    // Other fields, getters, setters
@Repository
public interface AttendanceRepository extends JpaRepository<Attendance, Long> {}
public class AttendanceService {
   @Autowired
   private AttendanceRepository attendanceRepository;
   // Attendance CRUD operations
// 4. Payroll Management
package com.capitalhr.erp.payroll;
@Entity public class Payroll {
   @Id
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   @OneToOne
   private Employee employee;
   private BigDecimal basicSalary;
private BigDecimal allowances;
   private BigDecimal deductions;
    // Other fields, getters, setters
public interface PayrollRepository extends JpaRepository<Payroll, Long> {}
@Service
public class PayrollService {
    @Autowired
    private PayrollRepository payrollRepository;
    // Payroll CRUD operations
// 5. Performance Management
package com.capitalhr.erp.performance;
@Entity
public class Performance {
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    @ManyToOne
    private Employee employee;
    private LocalDate evaluationDate;
    private String evaluator;
    private int rating;
    private String comments;
    // Other fields, getters, setters
}
@Repository
public interface PerformanceRepository extends JpaRepository<Performance, Long> {}
public class PerformanceService {
    @Autowired
    private PerformanceRepository performanceRepository;
```

```
// Performance CRUD operations
// 6. Recruitment Management
package com.capitalhr.erp.recruitment;
@Entity
public class JobOpening {
   @Id
   _
@GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   private String title;
   private String description;
private LocalDate postingDate;
private LocalDate closingDate;
   // Other fields, getters, setters
@Repository
public interface JobOpeningRepository extends JpaRepository<JobOpening, Long> {}
public class RecruitmentService {
    @Autowired
   private JobOpeningRepository jobOpeningRepository;
   // Recruitment CRUD operations
// 7. Training Management
package com.capitalhr.erp.training;
@Entity public class Training {
   @Id
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   private String title;
   private String description;
private LocalDate startDate;
   private LocalDate endDate;
   @ManyToMany
private List<Employee> participants;
   // Other fields, getters, setters
public interface TrainingRepository extends JpaRepository<Training, Long> {}
@Service
public class TrainingService {
       @Autowired
       private TrainingRepository trainingRepository;
       // Training CRUD operations
// Main Controller
@RestController
@RequestMapping("/api")
public class ErpController {
       // Inject all services
       // Endpoints for all operations
```

Output

Capital HR ERP System

Dashboard				
Total Employees 250	Attendance Today 92%			
Open Positions 5	Upcoming Trainings			

Employee Directory

John Doe - Software Developer Jane Smith - HR Manager Bob Johnson - Sales Representative

Today's Attendance

· , ·				
Employee	Check-In	Check-Out		
John Doe	08:55 AM			
Jane Smith	09:02 AM			

Payroll Summary

Employee	Basic Salary	Allowances	Deductions	Net Salary
John Doe	\$5000	\$500	\$200	\$5300

Recent Performance Evaluations

John Doe - Rating: 4.5/5 - Excellent performance in project delivery Jane Smith - Rating: 4/5 - Strong leadership skills demonstrated

Open Positions

Senior Software Developer - Posted: 2023-10-01 | Closing: 2023-10-31 Marketing Specialist - Posted: 2023-10-05 | Closing: 2023-11-05

Upcoming Trainings

Agile Methodologies Workshop - Date: 2023-11-15 | Participants: 15 Leadership Skills Seminar - Date: 2023-11-20 | Participants: 10