UML DIAGRAM ARCHITECT

Context: iHRM (Intelligent Human Resource Management) at FPT Corporation

1 Task: Design all UML diagram types shown in the image

Structural Diagrams

1. Use Case Diagram

- o Illustrate main functions and system users.
- o Actors: Employees, Department Managers, HR staff, Directors.
- Use cases: View payslip, Request leave, Evaluate employee performance, Post job listings, etc.

2. Class Diagram

- Define key classes such as Employee, Department, LeaveRequest, Salary, Contract, Attendance, etc.
- o Include attributes, methods, and relationships (inheritance, aggregation, composition, etc.).

3. Composite Structure Diagram

 Describe internal structure of classes. For example: a Department contains multiple Employees, or the HRSystem consists of multiple modules.

4. Component Diagram

 Model the system components such as: Recruitment Module, Attendance Module, Payroll Module, and how they interact.

5. Deployment Diagram

 Describe system deployment: on-premise server, cloud infrastructure, web/mobile apps, database servers, etc.

6. Activity Diagram

 Show workflows such as: "Leave Request Approval", "Recruitment Process", etc.

7. State Machine Diagram

 Model object state changes, e.g., LeaveRequest: Created → In Review → Approved or Rejected.

8. Sequence Diagram

o Show time-based interaction between objects. For example: the process of "Calculating Monthly Salary" from attendance records → calculations → generating payslips.

9. Communication Diagram

Show message exchanges between system objects like HR, Database,
SalaryProcessor during performance evaluation.

2- Task: Convert to Java Code from UML Class Diagram

■ The End

Noted

- Guidance for submit file (fullname StudentID ClassID: Nguyen Van A 12356456 567457547)