

HR Organizational Chart

Management System

Assignment – Information Systems

Lecturer: Devid Montecchiari

Olten, 4.11.2015

Statement of Authenticity

We confirm that we performed this teaching case autonomously using only the sources, aids, and assistance stated in the report and that quotes are readily identifiable as such.

4.11.2025, Kristyna Buzkova

4.11.2025, Saijai Thainoi

4.11.2025, Wendy Soto Marca

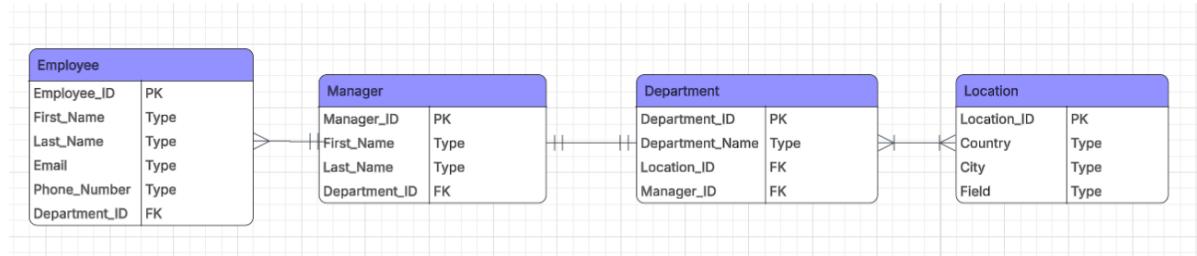
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Introduction & Scenario Description

A Human Resources (HR) Organizational Chart Management System is an information system designed to maintain and visualize an organization's staff hierarchy. In our scenario, a mid-sized company's HR department needs a solution to keep track of employees, their roles, departments, and reporting relationships. An organizational chart is essentially a visual diagram depicting the internal structure of an organization's HR department or entire company, including employee names, roles, and the hierarchy between them. The purpose of such an org chart is to clearly show who reports to whom, what each person's roles are, and to identify any gaps or overlaps in the structure. This helps business leaders monitor whether strategic roles are filled and helps employees understand their position in the organization's hierarchy.

Conceptual Data Model (ER Diagram)



Information Systems Modeling

3.1 Use Case Diagram

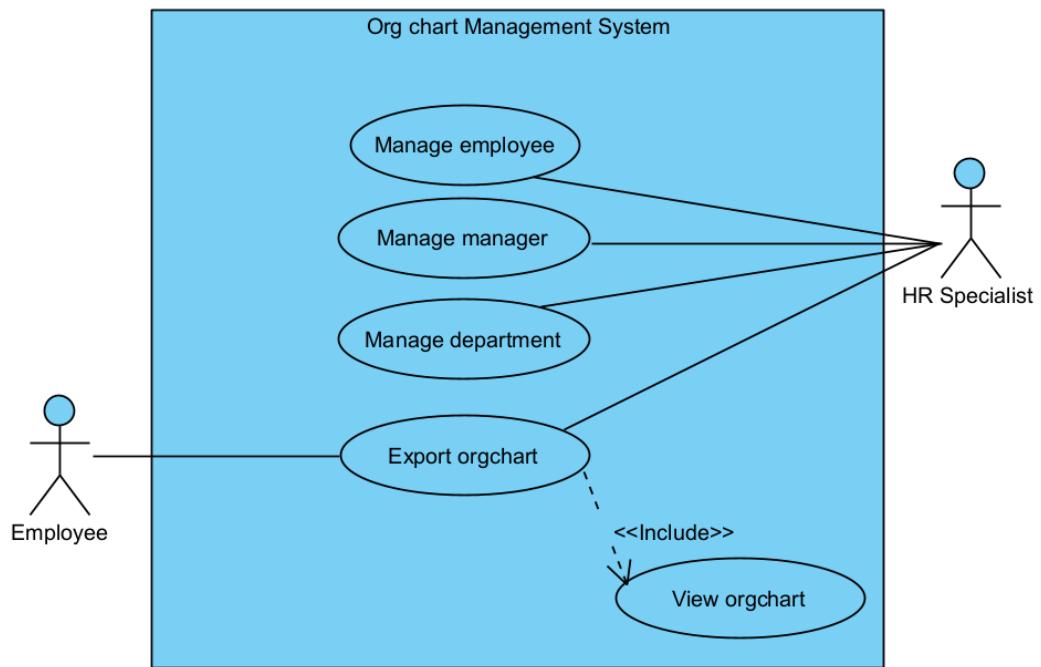
The Use Case Diagram describes the interactions between users and the HR Org chart Management System. It identifies different actors and the use cases (functionalities) that they can perform. In the system, the primary actor is an HR Specialist who administers the org chart. Another actor could be a “General Employee” who might only view the org chart and export it. The system itself is the boundary within which the use cases reside.

Key use cases include:

- Manage Department (creating or updating a new department in the org structure),
- Manage Employee (add or delete a new employee record and assign it to a department, updating relevant information),
- View Organizational Chart (browsing the hierarchy) and export it.

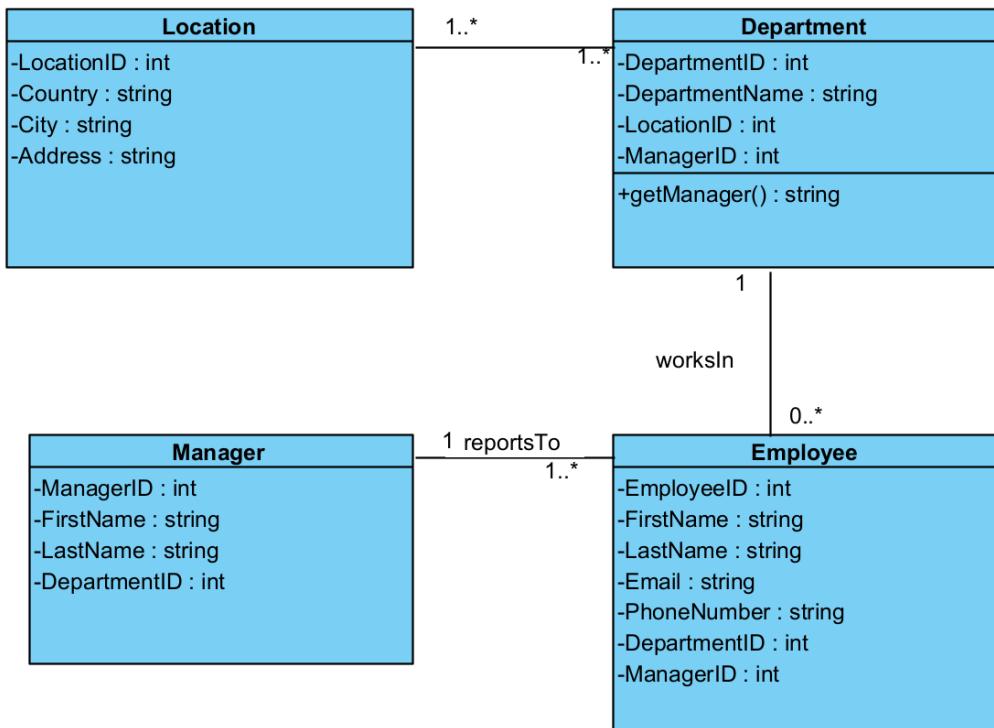
All administrative use cases (adding, removing, updating) are primarily performed by the HR Specialist actor. General employees might only trigger the “Export Organizational Chart” use case.

The use case diagram uses standard UML notation: stick figures for actors and ovals for use cases, with lines showing which actor participates in which use case. The HR Specialist actor is connected to the maintenance use cases (managing data), while both HR Specialist and Employee actors connect to the Export Org Chart use case (since any employee might view it, while only HR can modify data).



The use case diagram expresses the expected functionalities of the system from the perspective of its users. It answers following questions: Who interacts with the system? (HR, Employee) and What can those actors do? (use cases). By showing all interactions in one diagram, we ensured that, for example, only HR Specialist (and not regular employees) have access to the modify-functions like adding or removing employees – a clarity that aligns with the system's intended use and security.

3.2 Class diagram



Bibliography

Figures