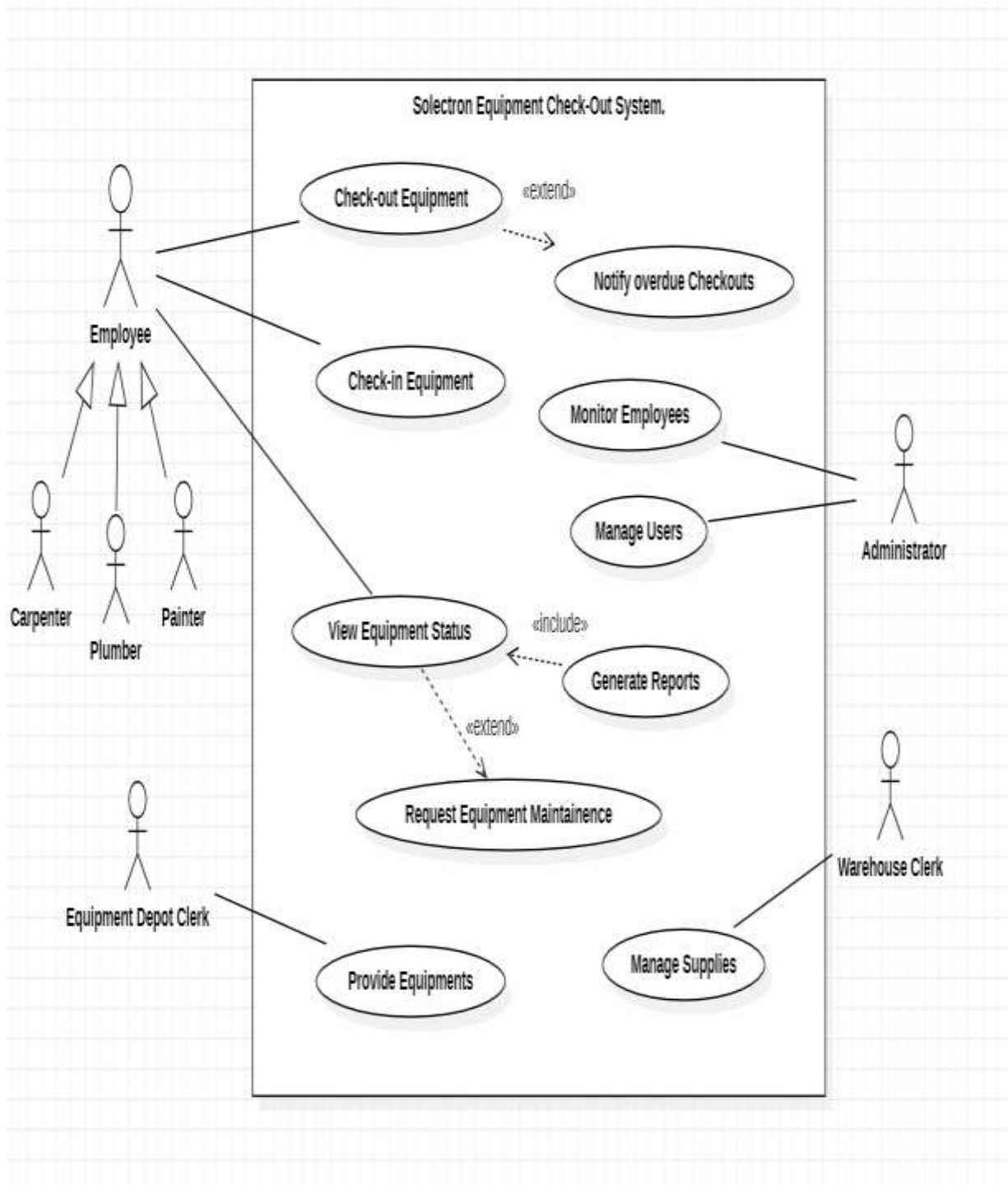# Object-Oriented Modelling and Design with UML

Assignment - 2

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Use case Diagram

Use Case Description

1. Manage Supplies

Use Case: Manage Supplies

Actors: Warehouse Clerk

Summary: This use case describes the process by which the Warehouse Clerk manages supplies at the Materials Warehouse to ensure availability of materials needed to complete jobs.

Pre-Condition:

- The Materials Warehouse is operational.

- The Warehouse Clerk has access to the inventory management system.

Mainline Flow:

1. The Warehouse Clerk receives a request for materials from workers.

2. The Warehouse Clerk checks the inventory management system to determine the availability of the requested materials.

3. If the requested materials are available at the smaller Materials Warehouse:

    a. The Warehouse Clerk retrieves the materials from the smaller warehouse.

    b. If necessary, the Warehouse Clerk arranges for the transfer of additional materials from the main Materials Warehouse to replenish the smaller warehouse.

4. If the requested materials are not available at the smaller Materials Warehouse but are available at the main Materials Warehouse:

    a. The Warehouse Clerk arranges for the transfer of materials from the main warehouse to fulfill the request.

Post-Condition:

- The requested materials are made available to the workers for job assignments.

- The inventory management system is updated with the latest information regarding material availability and movements.

2. Provide Equipment's

Use Case: Provide equipment's

Actors: Equipment depot clerk

Summary: This use case outlines the process by which the Equipment Depot Clerk provides equipment to maintenance employees to facilitate their job duties.

Pre-Condition:

- the equipment depot is operational.

- The Equipment Depot Clerk has access to the inventory management system.

Mainline Flow:

1. The Maintenance Employee requests specific equipment needed for a job.

2. The Equipment Depot Clerk checks the inventory management system to verify the availability of the requested equipment.

3. If the equipment is available: a. The Equipment Depot Clerk retrieves the requested equipment. b. The Maintenance Employee receives the equipment and acknowledges receipt.

4. If the equipment is not available: a. The Equipment Depot Clerk informs the Maintenance Employee of the unavailability and advises on alternative solutions.

Post-Condition:

- The Maintenance Employee receives the necessary equipment for the job.

- The inventory management system is updated to reflect the provision of equipment and its availability status.

3. Check-Out Equipment

Use Case: Check-Out Equipment

Actors: Maintenance Employee

Summary: This use case outlines the procedure for Maintenance Employees to borrow equipment from the Equipment Depot for their job tasks.

Pre-Condition:

- The Equipment Depot must be operational.

- Maintenance Employees should have valid access to the equipment check-out system.

Mainline Flow:

1. Maintenance employee logs into the equipment check-out system.

2. Employee searches for the required equipment by category or keyword.

3. Employee selects the equipment needed for the job.

4. System records the check-out of equipment to the employee.

5. Employee confirms the check-out and receives confirmation.

6. Employee proceeds with job assignment

Post-Condition:

- Equipment is checked out to the employee and marked as unavailable in the system