**Overview**

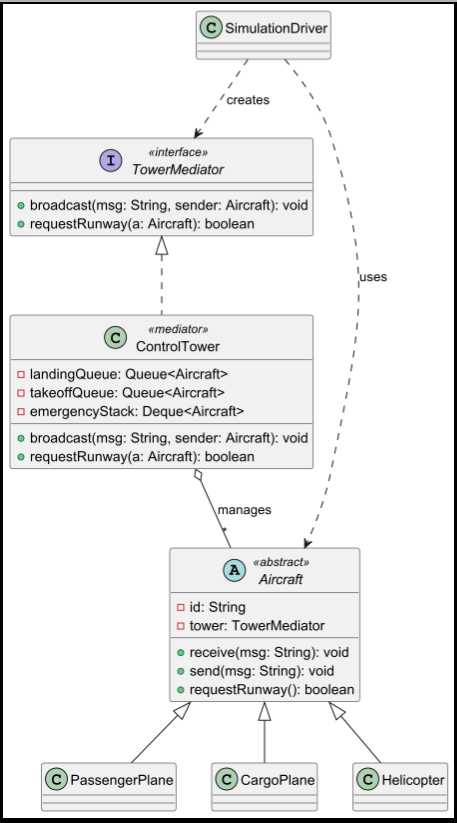
An implementation of the **Mediator** pattern for managing air traffic on a single runway. All aircraft interact through the ControlTower, which acts as a centralized dispatcher.

**Key Classes**

**TowerMediator**: mediator interface.

**ControlTower**: concrete mediator that maintains landing and takeoff queues, and handles emergency MAYDAY events.

**Aircraft**: abstract colleague; concrete subclasses PassengerPlane, CargoPlane, and Helicopter implement receive(...).

**SimulationDriver**: demonstrates normal and emergency requests.

**Puml:**

**s**

**Why use Mediator?**

**Decoupling**: aircraft are unaware of each other — they only communicate with the dispatcher.

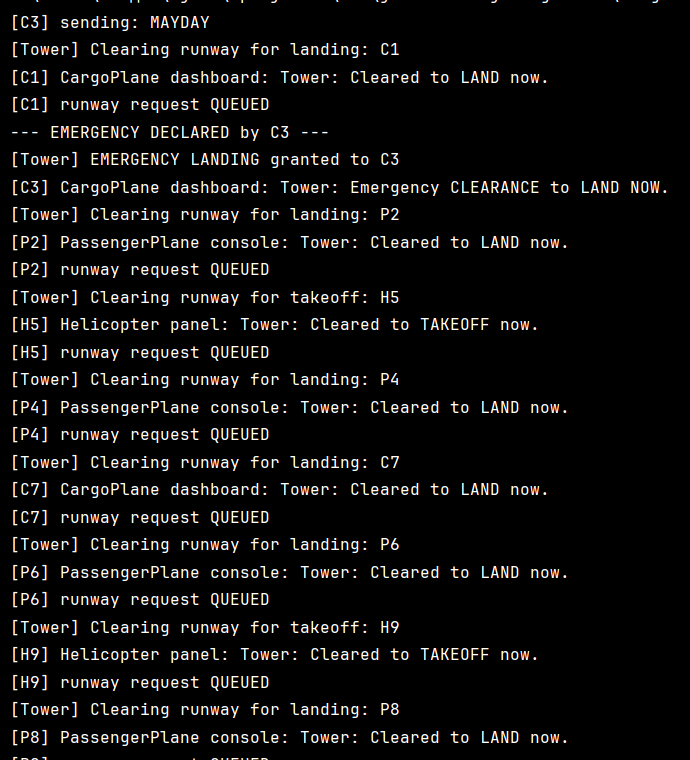
**Centralized rules**: priority logic for queues and emergency landings is stored in one place.

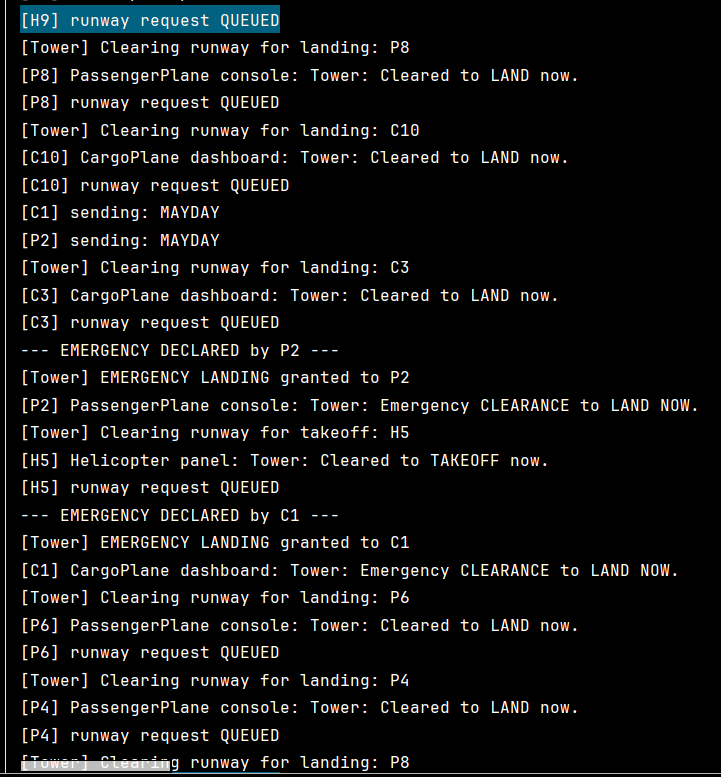
**Extensibility**: new aircraft types or rules can be added without modifying colleague code.

**Drawback**

**Mediator growth**: all complexity will accumulate in the ControlTower, which may lead to a large "god" class.

**Run**  
1, 2,  
3 and 4 ….

Изображение выглядит как текст, снимок экрана, Шрифт

Контент, сгенерированный ИИ, может содержать ошибки.Изображение выглядит как текст, снимок экрана, Шрифт

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[C3] sending: MAYDAY

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

--- EMERGENCY DECLARED by C3 ---

[Tower] EMERGENCY LANDING granted to C3

[C3] CargoPlane dashboard: Tower: Emergency CLEARANCE to LAND NOW.

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

[Tower] Clearing runway for takeoff: H5

[H5] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H5] runway request QUEUED

[Tower] Clearing runway for landing: P4

[P4] PassengerPlane console: Tower: Cleared to LAND now.

[P4] runway request QUEUED

[Tower] Clearing runway for landing: C7

[C7] CargoPlane dashboard: Tower: Cleared to LAND now.

[C7] runway request QUEUED

[Tower] Clearing runway for landing: P6

[P6] PassengerPlane console: Tower: Cleared to LAND now.

[P6] runway request QUEUED

[Tower] Clearing runway for takeoff: H9

[H9] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H9] runway request QUEUED

[Tower] Clearing runway for landing: P8

[P8] PassengerPlane console: Tower: Cleared to LAND now.

[P8] runway request QUEUED

[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

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[C7] runway request QUEUED

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[Tower] Clearing runway for landing: P8

[P8] PassengerPlane console: Tower: Cleared to LAND now.

[P8] runway request QUEUED

[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

[C1] sending: MAYDAY

[P2] sending: MAYDAY

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

--- EMERGENCY DECLARED by P2 ---

[Tower] EMERGENCY LANDING granted to P2

[P2] PassengerPlane console: Tower: Emergency CLEARANCE to LAND NOW.

[Tower] Clearing runway for takeoff: H5

[H5] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H5] runway request QUEUED

--- EMERGENCY DECLARED by C1 ---

[Tower] EMERGENCY LANDING granted to C1

[C1] CargoPlane dashboard: Tower: Emergency CLEARANCE to LAND NOW.

[Tower] Clearing runway for landing: P6

[P6] PassengerPlane console: Tower: Cleared to LAND now.

[P6] runway request QUEUED

[Tower] Clearing runway for landing: P4

[P4] PassengerPlane console: Tower: Cleared to LAND now.

[P4] runway request QUEUED

[Tower] Clearing runway for landing: P8

[P8] PassengerPlane console: Tower: Cleared to LAND now.

[P8] runway request QUEUED

[Tower] Clearing runway for landing: C7

[C7] CargoPlane dashboard: Tower: Cleared to LAND now.

[C7] runway request QUEUED

[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

[Tower] Clearing runway for takeoff: H9

[H9] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H9] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

[Tower] Clearing runway for takeoff: H5

[H5] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H5] runway request QUEUED

[Tower] Clearing runway for landing: P4

[P4] PassengerPlane console: Tower: Cleared to LAND now.

[P4] runway request QUEUED

[Tower] Clearing runway for landing: C7

[C7] CargoPlane dashboard: Tower: Cleared to LAND now.

[C7] runway request QUEUED

[Tower] Clearing runway for landing: P6

[P6] PassengerPlane console: Tower: Cleared to LAND now.

[P6] runway request QUEUED

[Tower] Clearing runway for takeoff: H9

[H9] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H9] runway request QUEUED

[Tower] Clearing runway for landing: P8

[P8] PassengerPlane console: Tower: Cleared to LAND now.

[P8] runway request QUEUED

[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[C3] sending: MAYDAY

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

--- EMERGENCY DECLARED by C3 ---

[Tower] EMERGENCY LANDING granted to C3

[C3] CargoPlane dashboard: Tower: Emergency CLEARANCE to LAND NOW.

[P6] sending: MAYDAY

[Tower] Clearing runway for landing: P4

[P4] PassengerPlane console: Tower: Cleared to LAND now.

[P4] runway request QUEUED

--- EMERGENCY DECLARED by P6 ---

[Tower] EMERGENCY LANDING granted to P6

[P6] PassengerPlane console: Tower: Emergency CLEARANCE to LAND NOW.

[P8] sending: MAYDAY

[Tower] Clearing runway for takeoff: H5

[H5] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H5] runway request QUEUED

--- EMERGENCY DECLARED by P8 ---

[Tower] EMERGENCY LANDING granted to P8

[P8] PassengerPlane console: Tower: Emergency CLEARANCE to LAND NOW.

[Tower] Clearing runway for landing: C7

[C7] CargoPlane dashboard: Tower: Cleared to LAND now.

[C7] runway request QUEUED

[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

[Tower] Clearing runway for takeoff: H9

[H9] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H9] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

[Tower] Clearing runway for takeoff: H5

[H5] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H5] runway request QUEUED

[Tower] Clearing runway for landing: P4

[P4] PassengerPlane console: Tower: Cleared to LAND now.

[P4] runway request QUEUED

[Tower] Clearing runway for landing: C7

[C7] CargoPlane dashboard: Tower: Cleared to LAND now.

[C7] runway request QUEUED

[Tower] Clearing runway for landing: P6

[P6] PassengerPlane console: Tower: Cleared to LAND now.

[P6] runway request QUEUED

[Tower] Clearing runway for takeoff: H9

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[H9] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H9] runway request QUEUED

[Tower] Clearing runway for landing: P8

[P8] PassengerPlane console: Tower: Cleared to LAND now.

[P8] runway request QUEUED

--- EMERGENCY DECLARED by C10 ---

[Tower] EMERGENCY LANDING granted to C10

[C10] CargoPlane dashboard: Tower: Emergency CLEARANCE to LAND NOW.

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

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[P8] runway request QUEUED

[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

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[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

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[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

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[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

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[C1] runway request QUEUED

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[C3] runway request QUEUED

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[Tower] Clearing runway for landing: P4

[P4] PassengerPlane console: Tower: Cleared to LAND now.

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[H9] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H9] runway request QUEUED

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

[Tower] Clearing runway for takeoff: H5

[H5] Helicopter panel: Tower: Cleared to TAKEOFF now.

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[P4] runway request QUEUED

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--- EMERGENCY DECLARED by P8 ---

[Tower] EMERGENCY LANDING granted to P8

[P8] PassengerPlane console: Tower: Emergency CLEARANCE to LAND NOW.

[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

[Tower] Clearing runway for landing: P4

[P4] PassengerPlane console: Tower: Cleared to LAND now.

[P4] runway request QUEUED

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[C10] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

[P4] sending: MAYDAY

[Tower] Clearing runway for takeoff: H5

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[H5] runway request QUEUED

[Tower] Clearing runway for landing: P2

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[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

--- EMERGENCY DECLARED by P4 ---

[Tower] EMERGENCY LANDING granted to P4

[P4] PassengerPlane console: Tower: Emergency CLEARANCE to LAND NOW.

--- EMERGENCY DECLARED by C7 ---

[Tower] EMERGENCY LANDING granted to C7

[C7] CargoPlane dashboard: Tower: Emergency CLEARANCE to LAND NOW.

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[Tower] Clearing runway for landing: C3

[C3] CargoPlane dashboard: Tower: Cleared to LAND now.

[C3] runway request QUEUED

[Tower] Clearing runway for landing: P4

[P4] PassengerPlane console: Tower: Cleared to LAND now.

[P4] runway request QUEUED

[Tower] Clearing runway for takeoff: H5

[H5] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H5] runway request QUEUED

[Tower] Clearing runway for landing: P6

[P6] PassengerPlane console: Tower: Cleared to LAND now.

[P6] runway request QUEUED

[C1] runway request QUEUED

[Tower] Clearing runway for landing: C7

[C7] CargoPlane dashboard: Tower: Cleared to LAND now.

[C7] runway request QUEUED

[Tower] Clearing runway for landing: P8

[P8] PassengerPlane console: Tower: Cleared to LAND now.

[P8] runway request QUEUED

[Tower] Clearing runway for landing: P2

[P2] PassengerPlane console: Tower: Cleared to LAND now.

[P2] runway request QUEUED

[Tower] Clearing runway for landing: C10

[C10] CargoPlane dashboard: Tower: Cleared to LAND now.

[C10] runway request QUEUED

[Tower] Clearing runway for takeoff: H9

[H9] Helicopter panel: Tower: Cleared to TAKEOFF now.

[H9] runway request QUEUED

[Tower] Clearing runway for landing: C1

[C1] CargoPlane dashboard: Tower: Cleared to LAND now.

[C1] runway request QUEUED

--- Simulation ended ---