Task 2: System Modeling

2.1. Draw an activity diagram to capture the business process between systems and the stakeholders in the Task Assignment module.
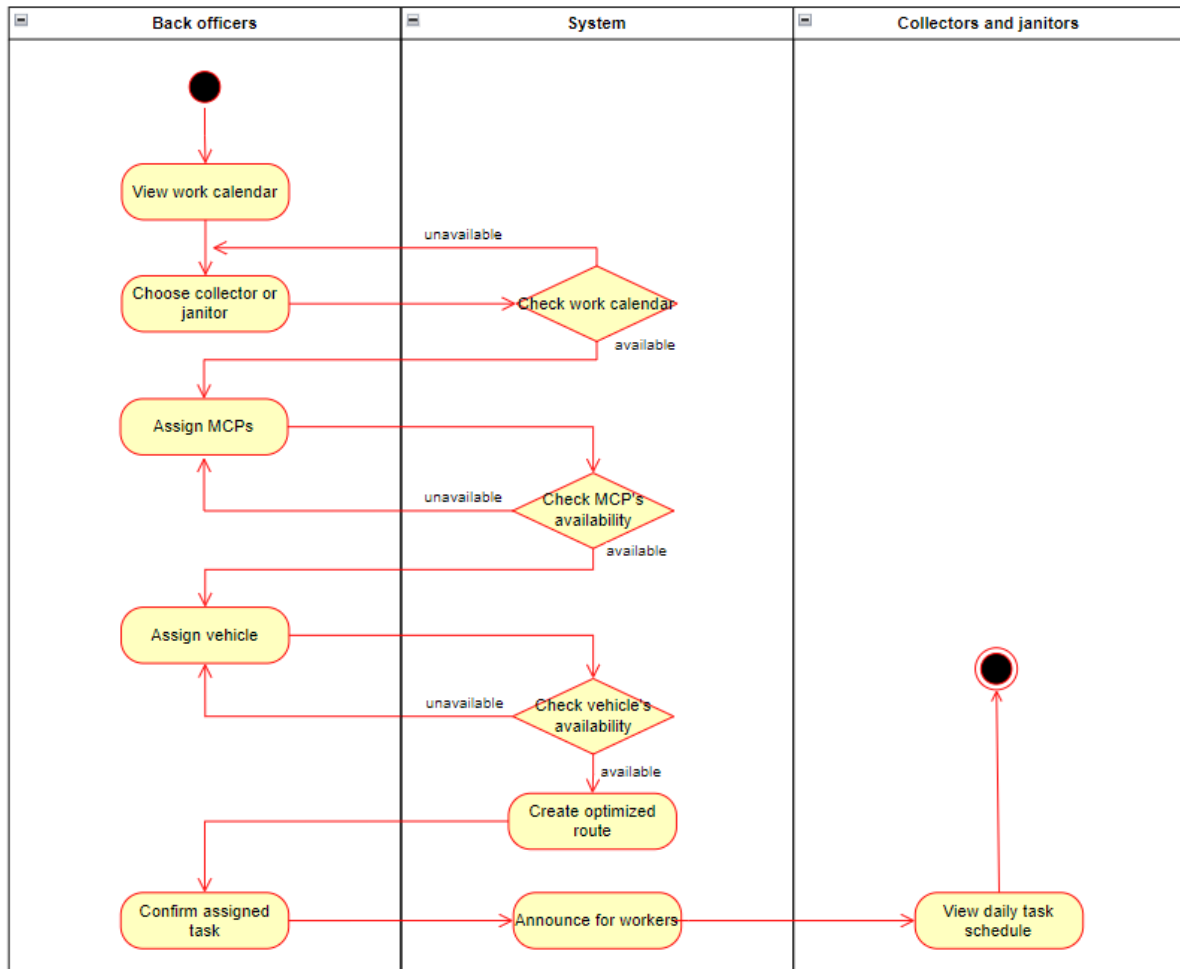

Figure 2.1: Activity diagram business process

2.2. Proposal a conceptual solution for the route planning task and draw a sequence diagram to illustrate it.

Route planning concept:

● The back officer will access the route planning feature by open method.

[loop for each vehicle]

[loop until optimal distance and fuel consumption]

● Route planning task will ask the Map to plan route after that the Map will ask Fuel consumption calculator to compute the fuel consumption.
● The distance and fuel consumption of the route will be return to Route planning task.

[ ]

● Route planning task will update the route for Vehicle panel, Notification center and System

[ ]

● After Route planning task process Back officer can close Route planning task.
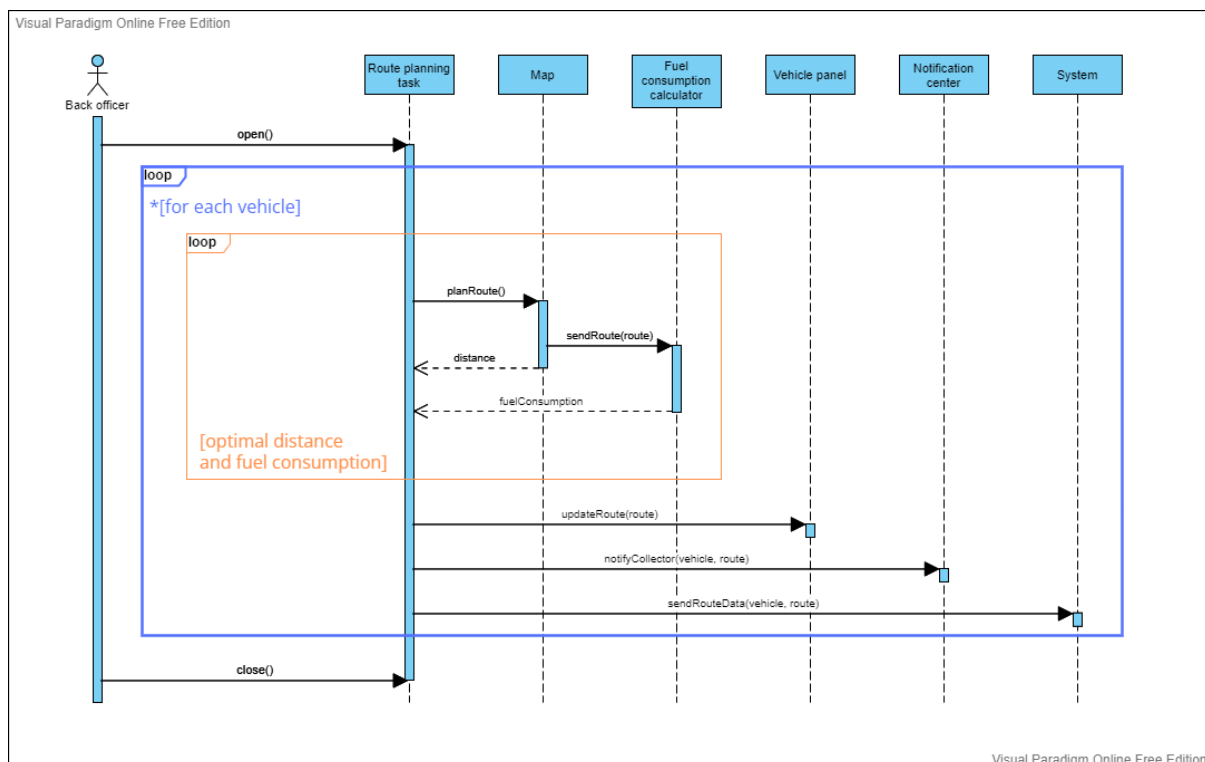
Sequence diagram:

Figure 2.2: Sequence diagram for the route planning task

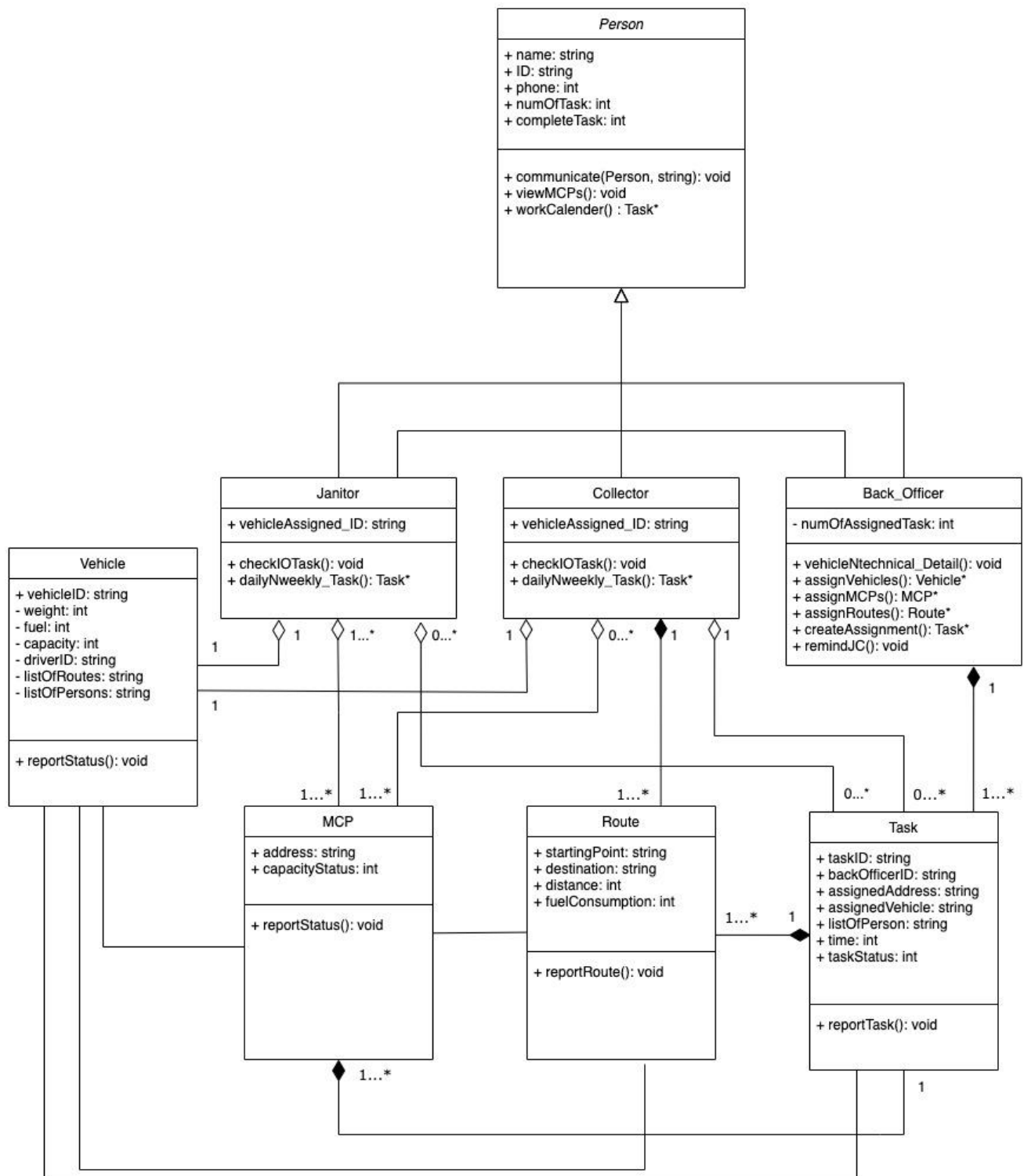**2.3. Draw a class diagram of the Task Assignment module as comprehensive as possible.**

Figure 2.3: Class diagram of the Task Assignment Module

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