

VIETNAM NATIONAL UNIVERSITY, HO CHI MINH CITY  
UNIVERSITY OF TECHNOLOGY



Software Engineering CC05

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Report Task 2 (Semester 221)

**GROUP Ồ DỀ**

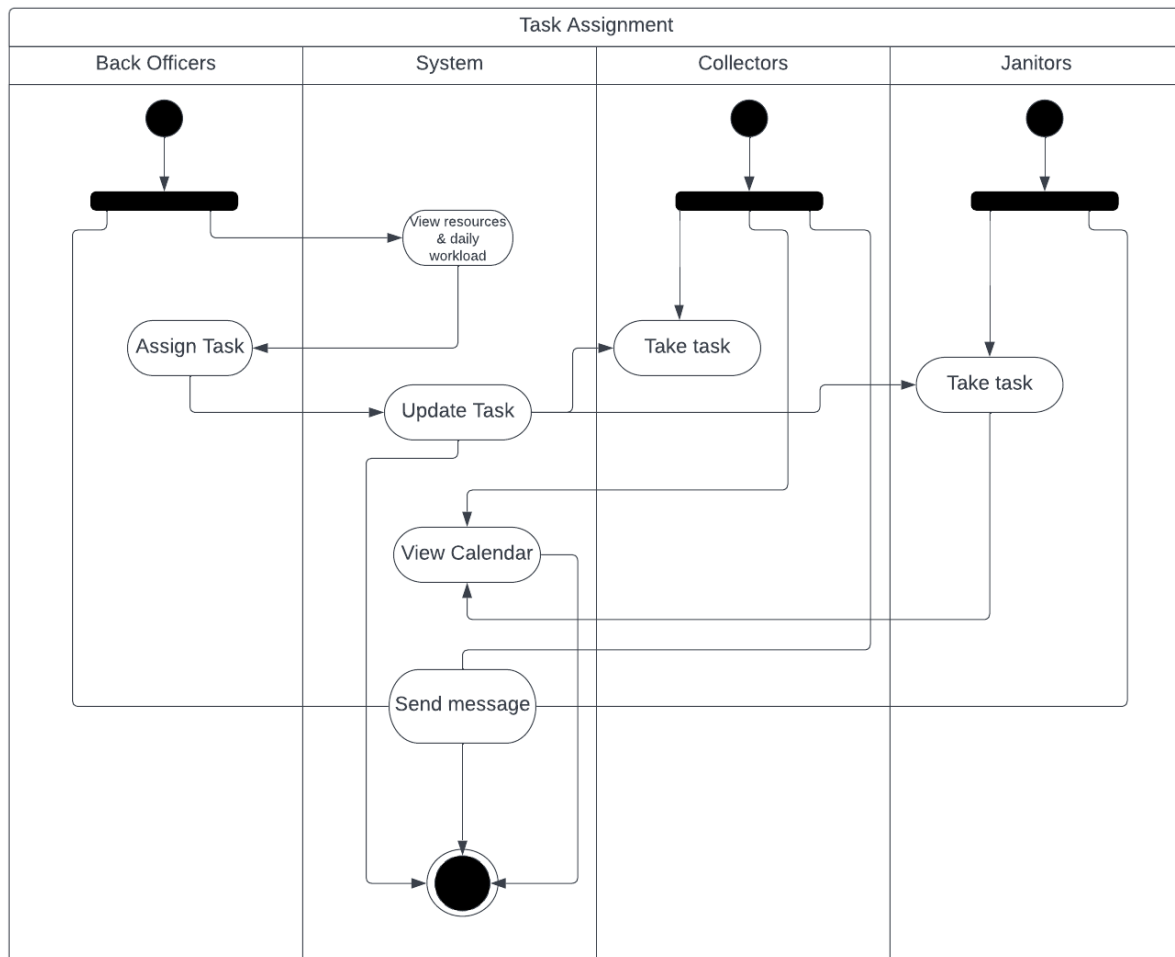
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**Task 2.1: Draw an activity diagram to capture the business process between systems and the stakeholders in Task Assignment module.**

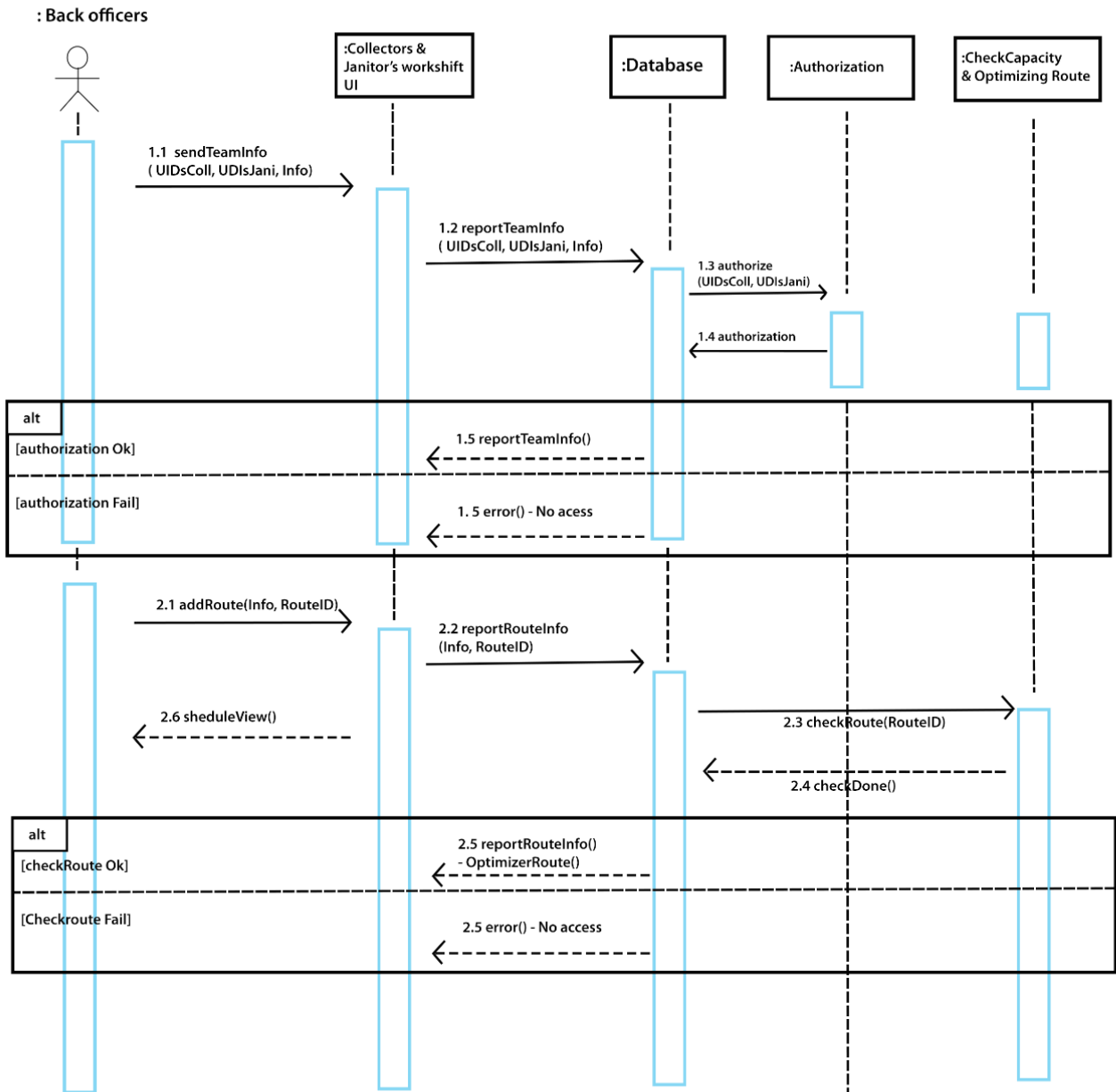


**Task 2.2: Proposal a conceptual solution for the route planning task and draw a sequence diagram to illustrate it.**

### A conceptual solution for the route planning task

Planning task	Description
1. Back officers send information about the team of janitors and collectors to the system => System will send back the information of their work-shift	1. Back offices submit information about the team of janitors and collectors to the work-shift UI with the unique ID of janitors and unique ID of collectors and information of the work-shift  2. It will send the information to the database.  3. The system will authorization about the given information.  4. If successful, the database will generate and send backward information to UI. If error, it will notify the error message to UI, and Back officers will have to input again another information.
2. Back officers will input the predetermined route of MCPs so that the collectors can drive through them with the optimized in terms of fuel consumption and travel distance	1. Back officers will input the information about the predetermined route of MCPs to the work shift UI.  2. The UI will send forward the information to the database.  3. The system will check the information of MCPs about the route about the capacity of them.  4. If the MCP is available, it will send backward to the UI the information about the status of the route and its optimized ways. If it is not, it will notify the error message to UI, and Back officers will have to input again another information.

## A sequence diagram of the route planning task



**Task 2.3: Draw a class diagram of Task Assignment module as comprehensively as possible.**

