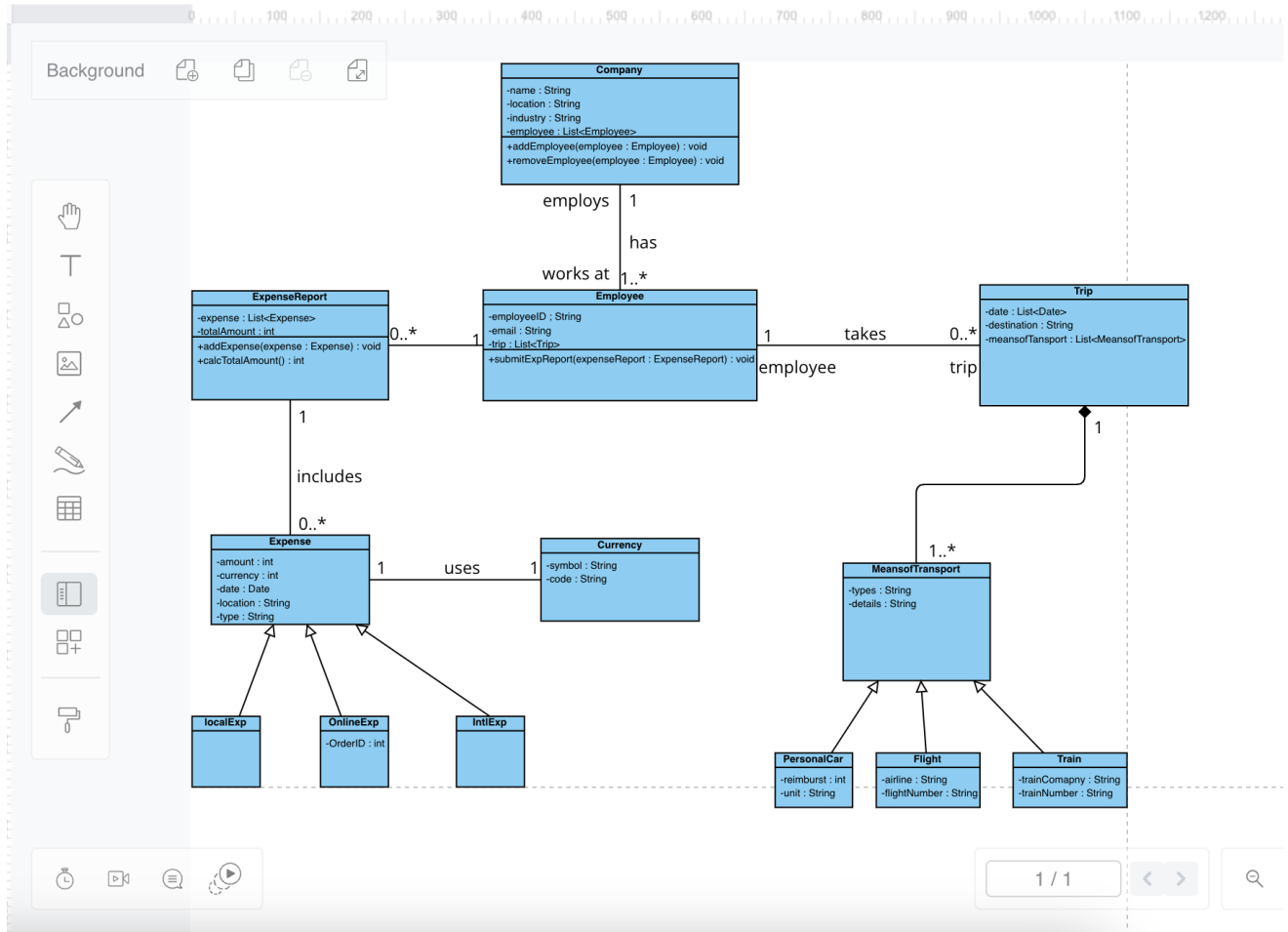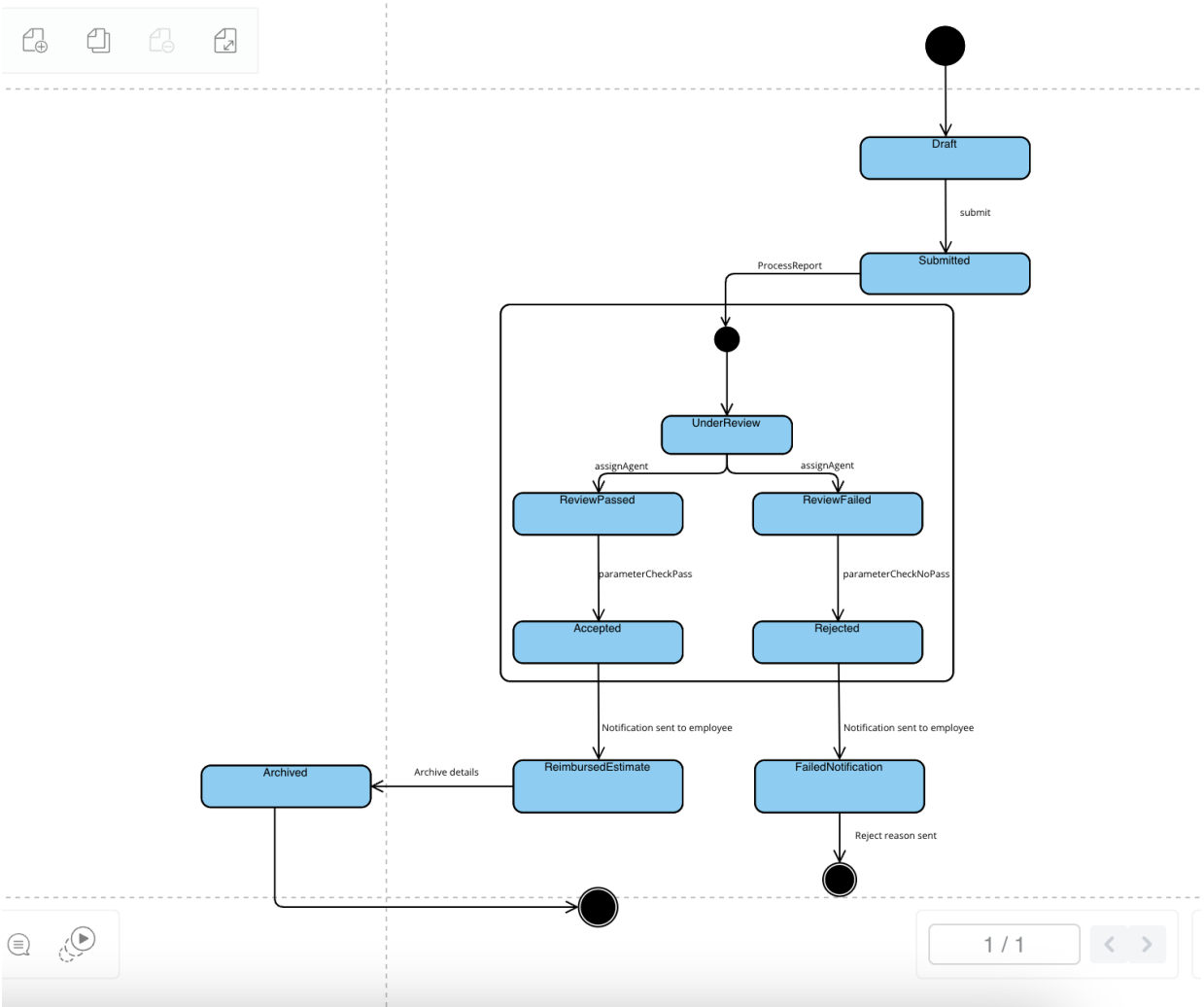# MIDTERM EXAM
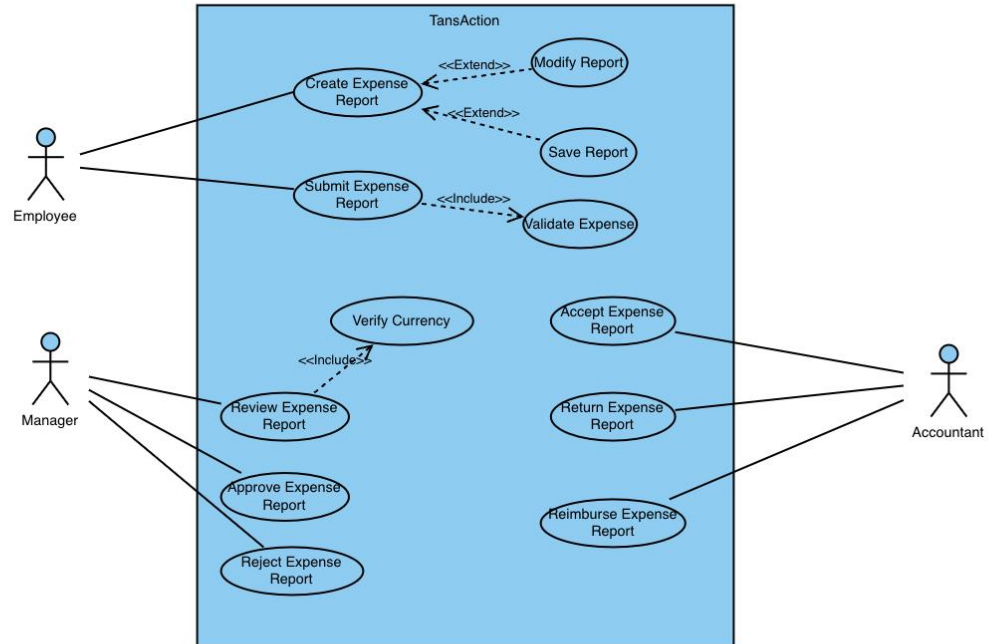
Name:Siddharth Jayant Bahekar

Student Number: 002417718

Use Case - Accept Expense Report

Actors - Accountant

Preconditions - The accountant has successfully logged into the TransAction application and is viewing a list of pending expense reports.

Main Flow

-The accountant chooses an expense report for a detailed review.
-The system then shows detailed information, including expenses, amounts, and supporting documentation.
-The accountant checks the accuracy and completeness of the expenses to ensure compliance with company policies.
-If the review is successful, the accountant selects "Accept Expense Report," and the system prompts confirmation.
-The expense report status is updated to "Accepted," and the accountant submits it for reimbursement, triggering the reimbursement process.

Postconditions - The expense report is marked as "Accepted" and submitted for reimbursement.

Alternatives - If the accountant decides not to accept the expense report: a. The accountant cancels the acceptance process. b. The system returns to the detailed view of the expense report.

Exceptional flow - If the accountant identifies issues during the review:

a. The accountant selects the "Return Expense Report" option.
b. The system prompts the accountant to provide comments for the return.
c. The system updates the status of the expense report to "Returned."

Notes - The "Accept Expense Report" use case assumes that the accountant has the authority to accept and submit expense reports for reimbursement.

Use Case - Return Expense Report

Actors - Accountant

Preconditions - The accountant has successfully logged into the TransAction application and is viewing a list of pending expense reports.

Main Flow -

-The accountant picks an expense report for review, and the system shows detailed information, including expenses and supporting documents.
-If the accountant identifies issues, they choose to return the expense report.
-The system prompts the accountant to provide comments and instructions for the employee.
-The accountant enters comments explaining the reason for the return.
-The system updates the expense report status to "Returned," and the accountant submits it.
-The system then notifies the employee of the returned expense report along with the accountant's comments.

Postconditions - The expense report is marked as "Returned" for the employee to address the identified issues.

Alternatives - If the accountant decides not to return the expense report:

a. The accountant cancels the return process.
b. The system returns to the detailed view of the expense report.

Exceptional Flow:

If the accountant does not find any issues during the review:

The accountant proceeds with other actions, such as accepting the expense report.

Notes

The "Return Expense Report" use case assumes that the accountant has the authority to return an expense report for further clarification or correction by the employee.

PART II

Q4)
1. Attributes are public, security concern.
2. Multiplicity needs to be definitive, example – 1 expense report can have one or more International Expense.
3. Getter and setter are not essential.
4. ID, amount and travelmethod can be put into inheritance.

Q5)
1. Actor to use cases arrows are incorrect.
2. Include line is generally dotted, in this case it is a solid line.
3. "SelectDropDownMenu" use case is a like a very low-level instruction, use case should be only high level overview.
4. "Reimbursement" use case is more like a noun, it should be a noun.

References -

ChatGPT
Google
VisualParadigm Help section