A CLASSIC THESIS STYLE

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Part I

CREATION OF CABINMANAGER

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1 OVERVIEW

2

UML EXERCISE ONE

From the textual description of the use case the following use case diagram was derived:

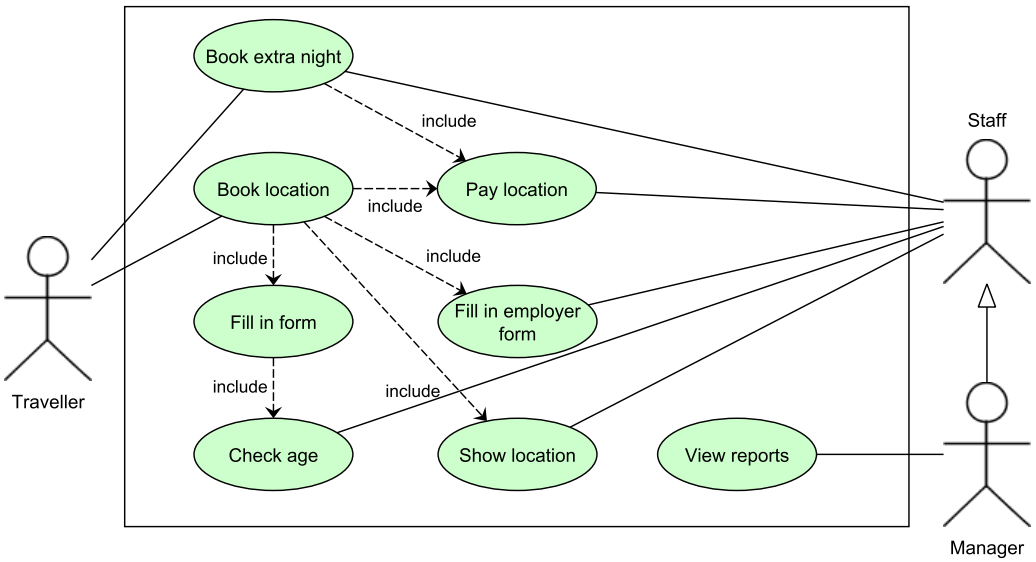

Figure 1: Use case diagram.

The complexity level with many *include* cases was choose to justify the use of a diagram and to show the possible sub-cases that might be reused.

Following from this description the *book location* high-ceremony use case would look like the following scenario:

2.1 HIGH CEREMONY USE CASES

2.1.1 *Use case: book location*

GOAL: Book a location.

ACTORS: Traveller, Staff.

PRECONDITION: A location is available.

POSTCONDITION: The traveller has booked a location for one night.

STEPS: 1. Traveller *fills in form*.
2. Staff *fills in employer form*.
3. Traveller *pays location*.
4. Staff *shows location* to traveller.

ALTERNATIVES: 1A. Fill in form use case fails.
The booking fails.
3A. Pay location use case fails.
The booking fails.

2.1.2 *Use case: fill in form*

GOAL: Fill in form.

ACTORS: Traveller, Staff.

PRECONDITION: User wants to book a location.

POSTCONDITION: Form was filled in correct.

STEPS: 1. Traveller enters personal details.
2. Traveller provides staff with passport.
3. Staff *checks age*.
4. Staff returns passport.

ALTERNATIVES: 3A. Check age use case fails.
The booking fails.

2.1.3 *Use case: pay location*

GOAL: Pay for stay.

ACTORS: Traveller, Staff.

PRECONDITION: -

POSTCONDITION: -

STEPS: 1. Traveller pays for one night.
2. Staff accepts payment.
3. Staff marks payment as received.

ALTERNATIVES: 1A. Traveller can not pay for stay.
The payment fails.

2.1.4 *Use case: show location*

GOAL: Traveller is shown location.

ACTORS: Traveller, Staff.

PRECONDITION: -

POSTCONDITION: -

STEPS: 1. Staff shows traveller the location.

ALTERNATIVES: -

2.1.5 *Use case: fill in employee form*

GOAL: Employee fills in form.

ACTORS: Staff.

PRECONDITION: -

POSTCONDITION: -

STEPS: 1. Staff enter details (location id, form number, nights to stay).

ALTERNATIVES: -

2.2 ACTIVITY DIAGRAMS

2.2.1 *Book location*

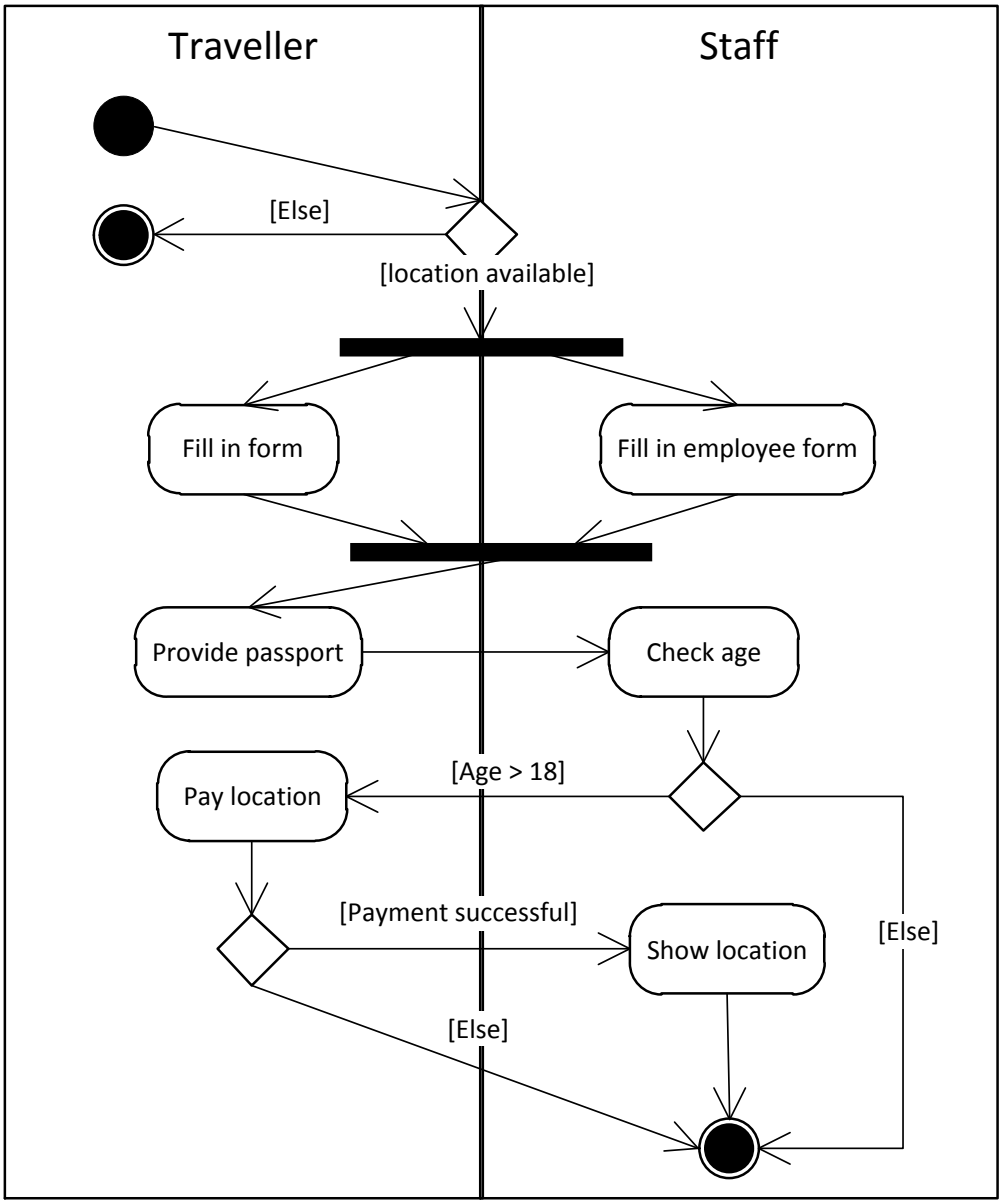

Figure 2: Activity diagram of book location.

Even though best practice is to only have one end-point per activity diagram, the provided activity diagram has two to improve readability.

2.2.2 *GetCost()*

3 SOURCE CODE

4 EXAMPLE OUTPUT

5 TESTING REPORT

Part II

APPENDIX

APPENDIX TEST