

INFO2320 Assignment 3

For this assignment, the same **INFO2320 A1 rules** will apply.

Before you begin:

In MS Teams:

- ☐ Download the **A3_VPRU_TeamYY_Template.docx** from **eConestoga** and copy to your team's **General\A3** folder on your MS Teams **Files** tab.
 - ☐ Rename your document to **A3_VPRU_Team#.docx**
 - Put your entire **A3 solution** in this single **MS Word** document.
 - ☐ Fill out the **Assignment 3 header** with your section, team # and student names.
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Individual VP Lab (20% of A3 mark)

- ☐ Do the VP tutorial / lab for **System Sequence Diagram** and **Activity Diagram**. Save your individual work to **A3_Lab_<student name>.vpp** and make a copy to **General\A3** folder of your **MS Teams**.
 - ☐ Demo your individually completed diagrams to one of your team members.
 - ☐ Fill out the **Individual Lab** section of your **A3_VPRU_Team#.docx**
 - *Reminder: Members must sign their own name.*
 - ☐ Read the **VPRU Case Study.pdf** from **A1** again, as needed.
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Team Assignment 3 (80% of A3 mark)

You are working with the case study **Vacation Packages 'R' Us (VPRU)** Travel Service.

In Visual Paradigm:

- ☐ Create a new VP 16.3: **A3_VPRU_Team#.vpp**
 - When your team solution is completed, copy the UML System Sequence diagram and Activity diagram to your document **A3_VPRU_Team#.docx**

Task 1: Use Case Description with SSD

Use Case: **Add Multiple Draft Vacation Package Vouchers**

Task 1A. Fully-Developed Use Case Description

☐ Based on the VPRU background information, write a **Fully-Developed Use Case Description**.

- **Test Case:** The resort staff need to add 10 vacation packages with the same resort room type (e.g., **Sanctuary Deluxe Suite**). Once the draft vacation packages are added, the system returns a success message (e.g., **Successfully added VP Voucher Numbers SGMV-21-0021 to SGMV-21-0030**).

☐ Add at least one (1) loop to your solution.

- *Hint: The actor must specify the number of vacation packages to add.*

Task 1B. System Sequence Diagram (SSD)

☐ Draw an **SSD** to show the sequence and the input/output messages associated with the Use Case.

Optional: You can build a screen prototype to identify the input and output messages associated with the use case.

Task 2: Use Case Description with SSD

Use Case: **Reserve a Vacation Package**

Task 2A. Fully-Developed Use Case Description

☐ Write a **Fully-Developed Use Case Description** for the additional background information and scenario described below.

☐ Based on previous background information including **A2 Appendix B**, write a **Fully-Developed Use Case Description** with the additional background information and scenario described below.

- **Additional information:** A group of college students (John, Jake and Jill) went to **Cayo Santa Maria, Cuba** two years ago and they want to take another vacation in **Varadero, Cuba**. Due to their positive vacation experience, Jill wants to reserve another vacation package with **VPRU** again.

- **Test Case:** Jill found a heavily discounted vacation package deal in [Varadero, Cuba](#) and Jill immediately reserved the vacation package. As the primary guest, Jill added her friends (John and Jake). She did not pay the initial deposit because she needs to talk to her friends first. The system returns a success message along with the **VP Booking Number** and **Web ID**.

☐ Add at least one (1) loop to your solution.

- *Hint: The actor must be able to add multiple friends to a VP booking.*

Task 2B. System Sequence Diagram (SSD)

☐ Draw an **SSD** to show the sequence and the input/output messages associated with the Use Case.

Task 3. Activity Diagram (AD)

Scenarios for Activity Diagram:

- ☐ **S1:** For *odd-numbered* teams (Team 11, Team 21, Team 31, etc.), draw an **AD** to show the flow of activities associated with the **Task 1 Use Case: Add Multiple Draft Vacation Package Vouchers**.
- ☐ **S2:** For *even-numbered* teams (Team 12, Team 22, Team 32, etc.), draw an **AD** to show the flow of activities associated with the **Task 2 Use Case: Reserve a Vacation Package**.

Hint: To get started, select and use the verbs (e.g., Enter, Lookup, etc.) that are in Slides 14 to 16 of Chapter 5.

Task 4: CRUD Matrix

☐ Do a **CRUD analysis** based on your current Domain Class Diagram (**DCD**) from **A2** for the *four (4) Use Cases* provided in the table below.

Domain Class	Use Case			
	<UC#>: Add Multiple Draft VP Vouchers	<UC#>: Reserve a Vacation Package	<UC#>: Cancel a Reservation	<UC#>: Approve and Publish a VP
Resort				
Vacation Package				
...				
Student				
VP Booking				
...				

☐ Based on the CRUD analysis technique, fill out the CRUD cells above.

*Note: Analyze each of the four (4) use cases carefully. Your solution must not contradict any of the VPRU background information provided since **A1**.*

☐ Ensure all the relevant domain classes in the CRUD Matrix, use case descriptions, activity diagrams and SSDs all fully support each other.

☐ Copy all the **UML diagrams** to your solution document **A3_VPRU_Team#.docx**.

☐ **Checkpoint:** Use the **A3 marking sheet** to self-evaluate your solution.

Submission Requirements:

☐ Create a **A3_Team#.zip** file that contains **all** the docx and vpp solution files (missing solution = zero mark). Include a copy of **all individual lab vpp files** from **General\A3** folder of your **MS Teams**.

☐ Submit your **A3_Team#.zip** file to the Assignment Dropbox on **eConestoga** (i.e., **A3_Dropbox**).