StarUML Tutorial

Starting the Software
▪ When you click on the StarUML icon, you will be presented with a New Project by Approach window. Choose the **Empty Project** approach.

Creating a new StarUML model and package
· Use File Save as to save your model. Use the naming convention, *projectnameyourinitalsV1.uml*. The top right-hand window alternates between *Model Explorer* and *Diagram Explorer*. Ensure that you see Model Explorer. Right-click on **Untitled** and add a package. The package name should be your business area with BUC added to the end (for example: *FinanceBUC*. BUC stands for <u>Business Use Case</u>. All of your work must be saved in this package.
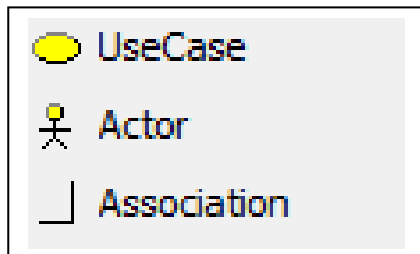
Create a Use Case Diagram
· Right-click on your package and add a Use Case Diagram. The diagram name should be the same as your package, business area with BUC added to the end.

The Business Area and Processes worksheet that you completed contains information you will use to build this StarUML model.

Explore the Toolbox
▪ The toolbox is located on the left hand side of your screen. There should be two toolbox options at the top or bottom of the window: UseCase and Annotation. You can change to a toolbox by selecting its name.
   o **Use Case** – you will use the following symbols located under Use Case.

   o **Annotation** – you will use the Note symbol under annotation.

Now we are going to add Actors to the Use Case Diagram. Review the actors in **Business Use Processes Worksheet.** Add those actors to the diagram as follows:

Open your diagram for use
· Double click on the Business Use Case diagram, (Business Area Name)BUC, so that the empty diagram appears in the main window (its name will appear in the top tab bar).

Create Business Actors and add them to the Business Use Case diagrams
· Click on the toolbox's **Actor** icon, then click to place it on the Business Use Case diagram. The Actor will appear in the left and main windows with a pre-set name.
· Change this name to the name (title or role) of your first Actor.
· Add the other Actors to the Business Use Case diagram.
· Note that everything you add to your diagram is tracked as an object in the package in the right window.

To Delete Actors
· If you want to delete a business actor from a Business Use Case diagram, click on it in the diagram and use the *Delete* key.
· If you want to remove a business actor from the entire model, right-click on the business actor in the package and select *Delete From Model*.

Now we are going to add Business Use Cases to your Diagram. Review the Business Use Cases in Business Area and Processes worksheet. Add those business use cases to the diagram as follows:

Create Business Use Cases in the Business Use Case Diagram
· Click on the use case toolbox's **Use Case** icon, then click on the diagram. The Use Case will appear in the diagram with a pre-set name. Change this to your Business Use Case name.
· Add more Business Use Cases as needed.

To Delete Business Use Cases
· Use the same method as for actors.

Lastly, we have to associate all of the actors to their use cases. We will do this as follows:

Associate Actors to Use Cases
· Click on the use case toolbox's **Association** icon. Then, click either the Actor and drag the connection to the Use Case (or you can start with the Use Case too)

Reminders:
¨ **One actor may be associated with more than one use case and a use case may have an association with one or more actors.**
¨ **Use cases <u>cannot</u> be associated with other use cases, only with actors**
¨ **Actors <u>cannot</u> be associated with other actors**

To Delete an Association
To delete an association between a Business Actor and Business Use Case, click on the association, then use the Delete key on your keyboard.

Continue building the BUC Diagram...
· You can add Actors or Business Use Cases in any order
· Try to avoid crossing association lines when laying out the diagram, but this may be inevitable
· You can rename an Actor or Use Case by double-clicking its name
· You can rearrange the position of actors or use cases by drag and drop -- the association lines will automatically follow the moved elements.

Include a note with your details:
Using the Annotation section of your right-hand toolbox, find the note icon. Choose it and click on your Business Use Case diagram to create a note in the top left-hand corner of your diagram. This note has no impact on the diagram or structure, it is just used to include extra information. Include your name, class with section, date created (or last updated), professor's name, and team information. You can also use a note for other details that you may feel need to be included.

NOTE:
▪ In order to receive 1% for this tutorial, post you *.uml file to your section *students.html* web page.
▪ **Name your StarUML Model *ProjectNameYourInitialsV1.uml*.**