CSC 3380 Enterprise Architect (EA) Homework #1

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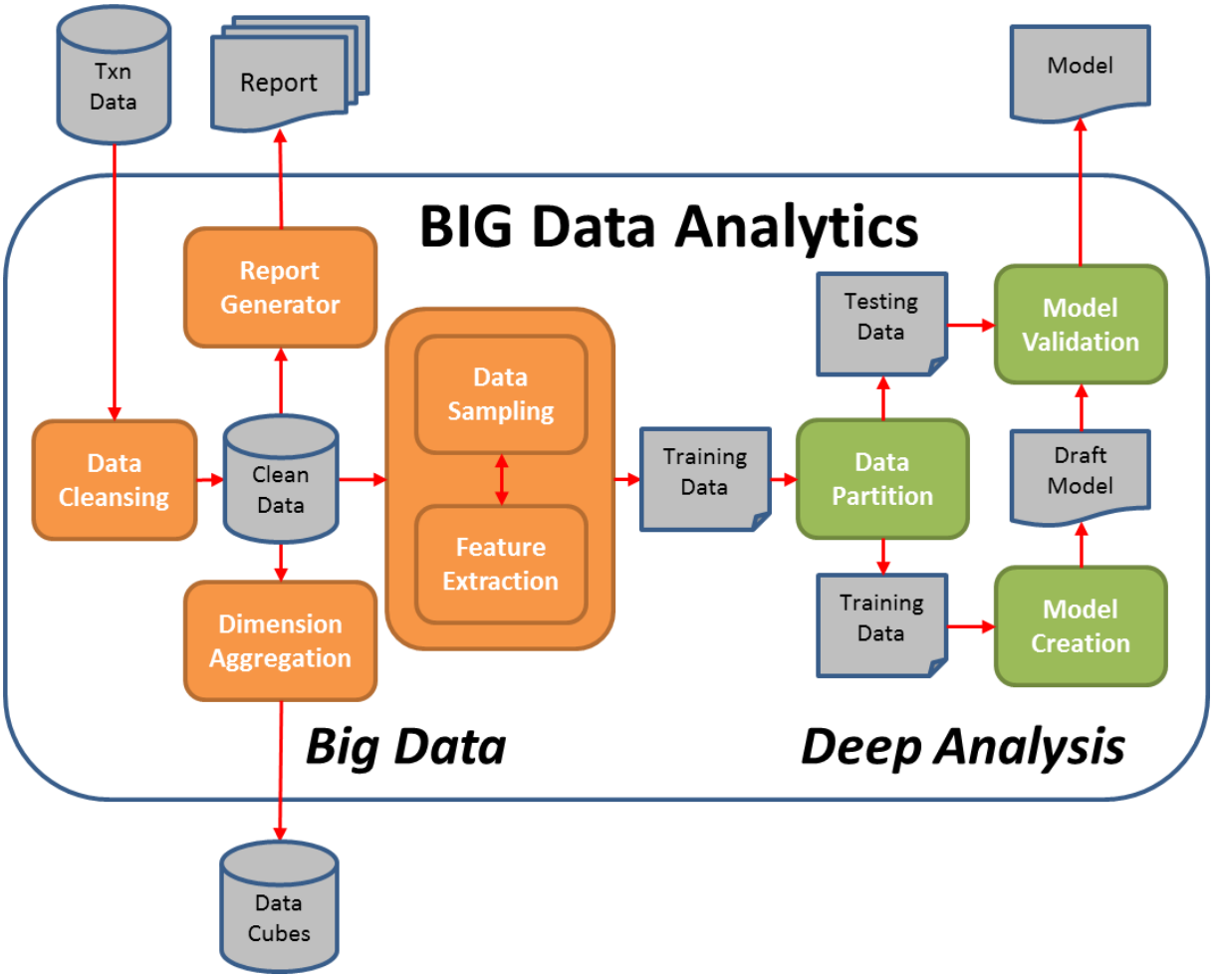
For this assignment, you will create a UML component diagram for the following architecture, using Enterprise Architect (EA).



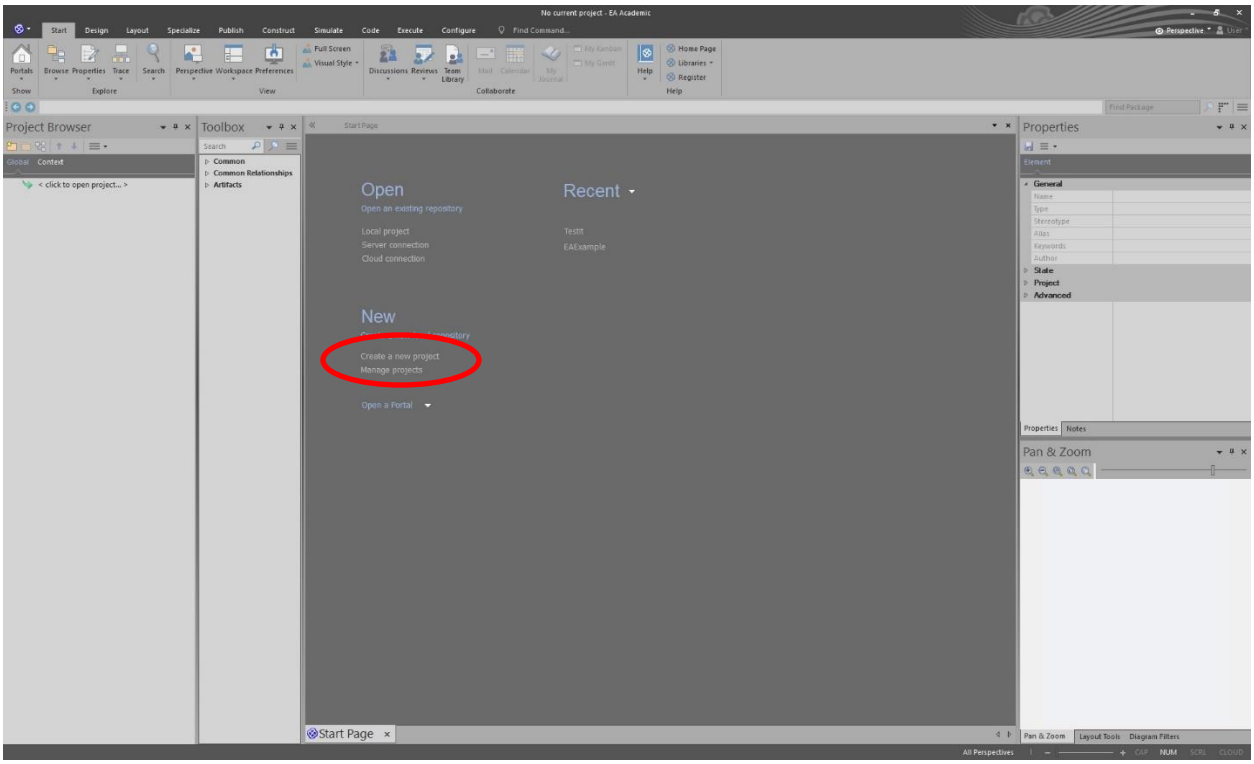
Step 1: Read the CSE Lab Guidelines, which can be found in the Project Resources/Enterprise Architect collection in Moodle.

Step 2: Read the Enterprise Architecture Access Instructions, which can be found in the Project Resources/Enterprise Architect collection in Moodle.

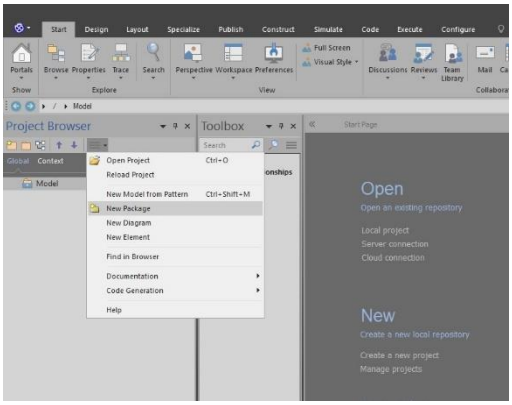
Launch EA

Step 3: Create the UML Diagram.

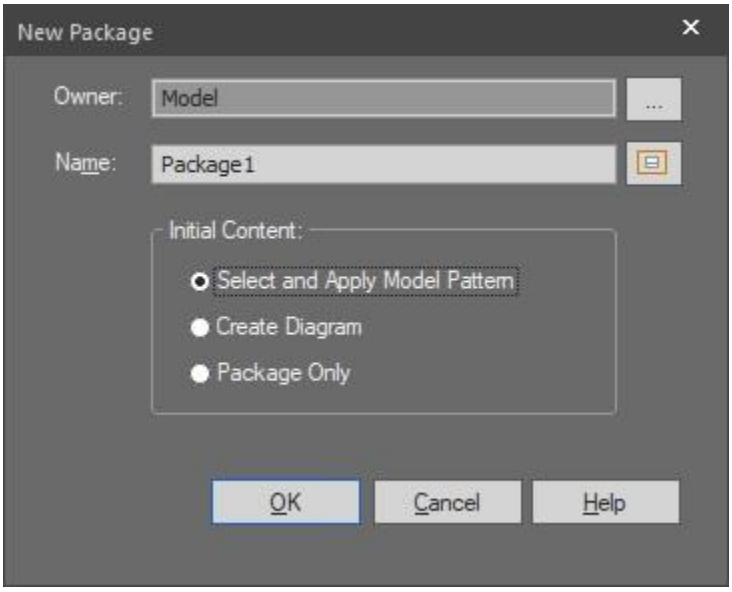
First, will need to create a new Project to work on:



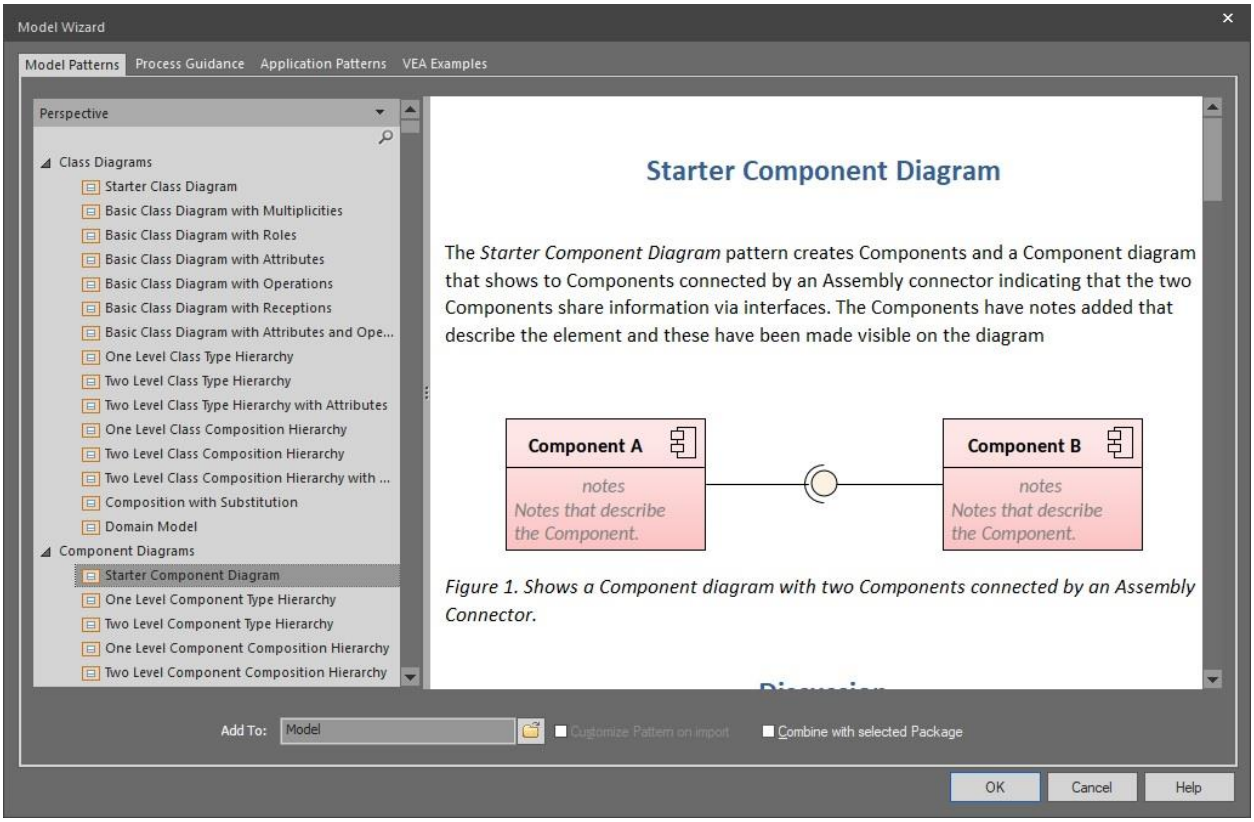
Next, we will need to create a new package to contain our work:



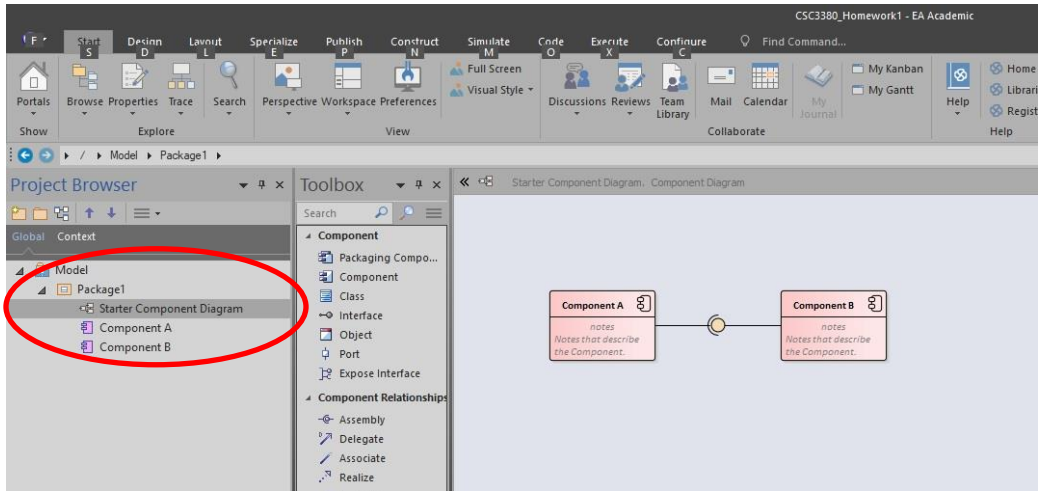
In the New Package dialog box, you can name your package appropriately or use the default Package1.



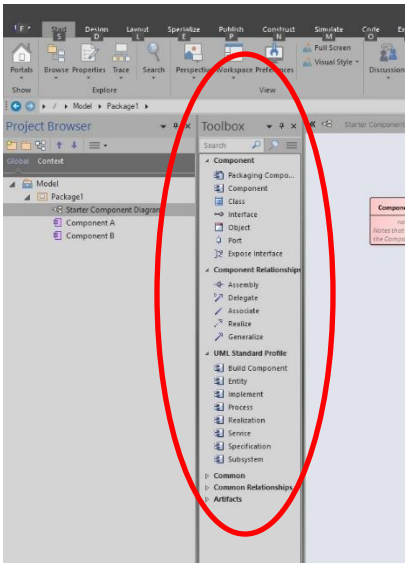
In the Model Wizard, we want to select a Perspective from the Component Diagrams options, since we are creating a component diagram. I recommend starting with the Starter Component diagram:



We can now open the Starter Component Diagram by double clicking on the name in the Project Browser tab:



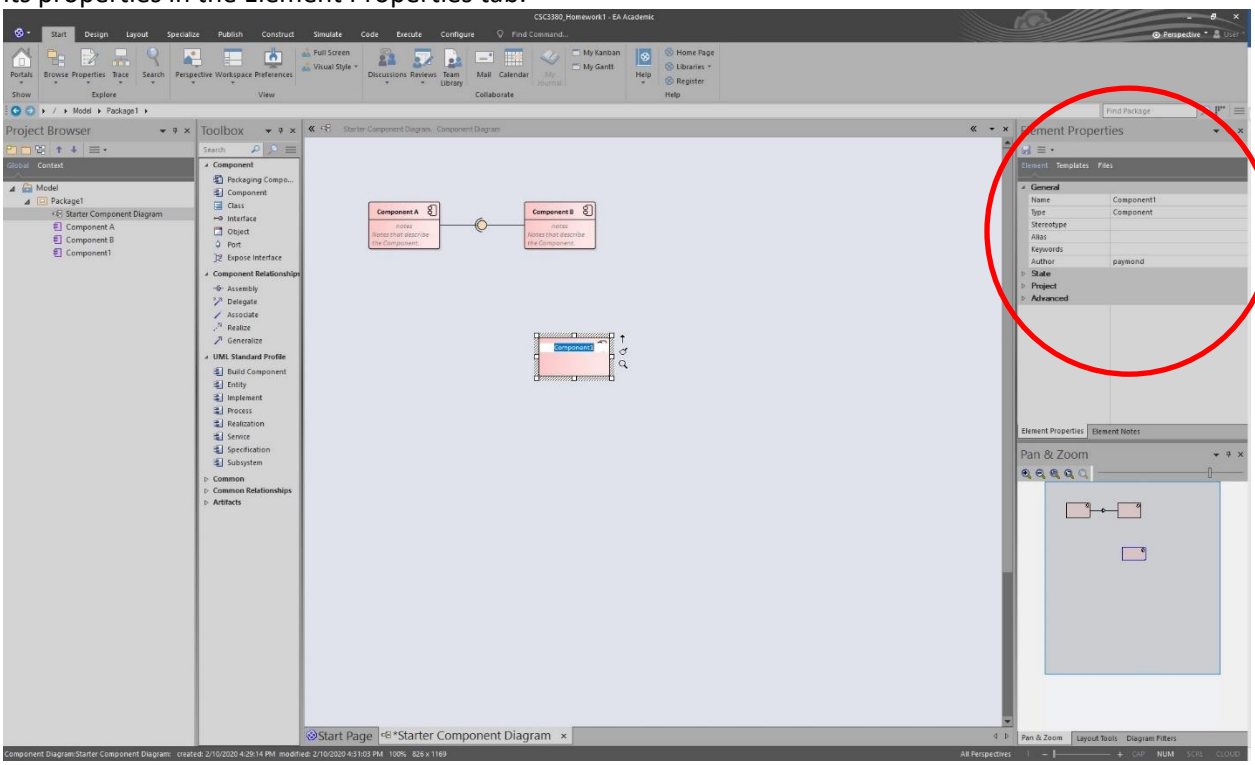
Since we have a component diagram open, the resources typically used in a component diagram is visible in the Toolbox:



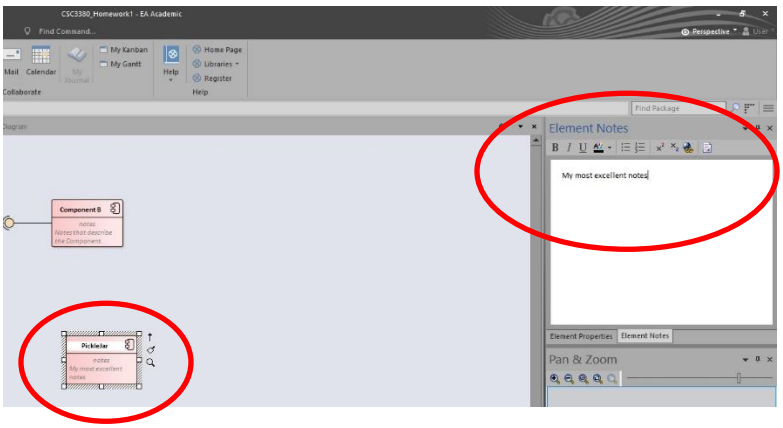
You're ready now to start modifying your starter component diagram to match the architecture above.

Here are some helpful hints:

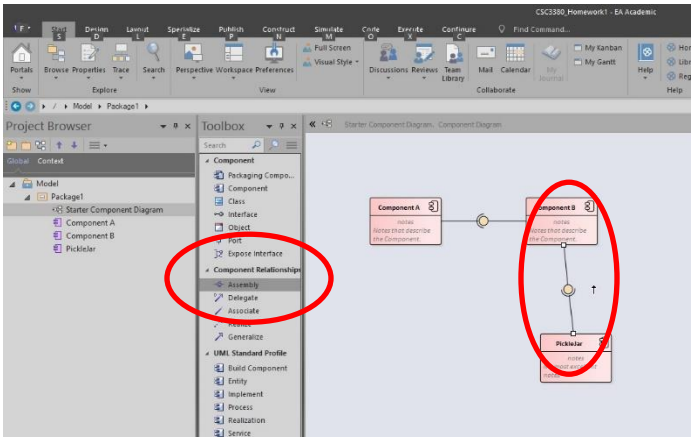
We can create a new component by simply clicking on Component in the Toolbox and clicking on a location in the diagram. We can give the component a name directly in the diagram, or we can change its properties in the Element Properties tab:



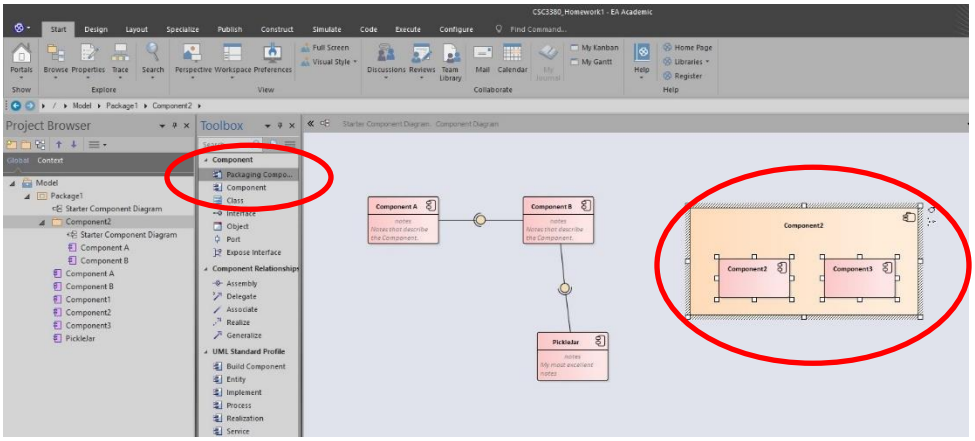
We can also add element notes:



To add relationships to our component diagram, we can click on a Component Relationship in the Toolbox (e.g., Assembly) and then click on the source component and drag the relationship to the target component.



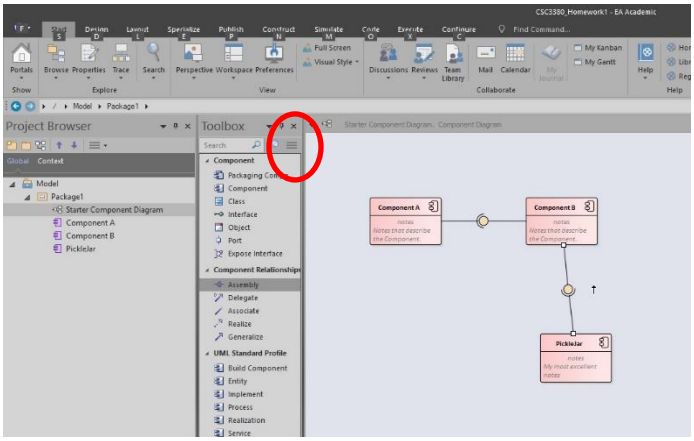
In our architecture, we have subcomponents. To create components with subcomponents, we can create the containing component to be a Packaging Component:



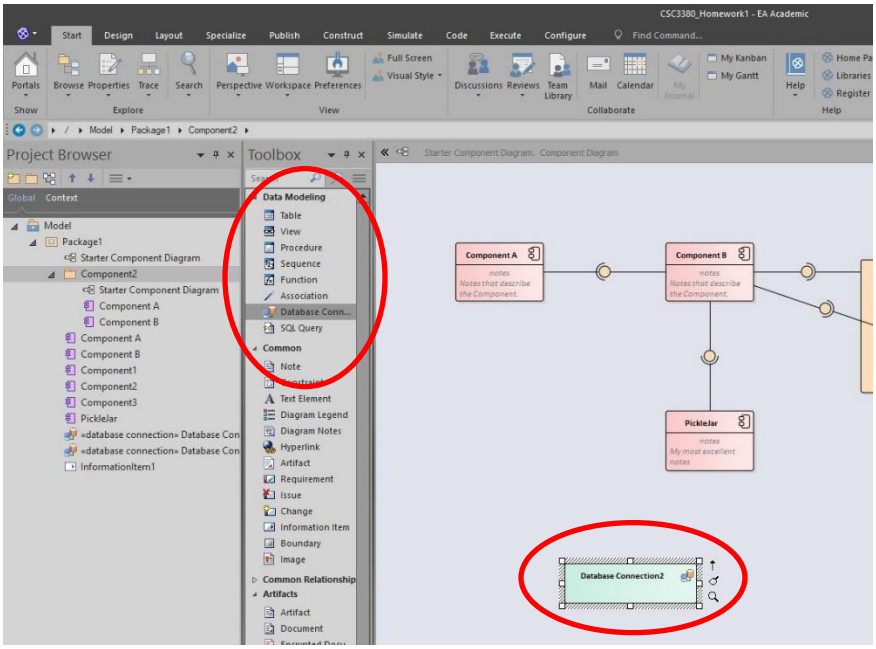
Step 4: Convert the diagram to an image.

In the diagram viewer, click the Ctrl-T keys. This will open a Save As Image dialog box that will allow you to navigate the file system and save the file as various image formats. Save the file as <ModelName>.jpg, where < ModelName > is the name that you give your model.

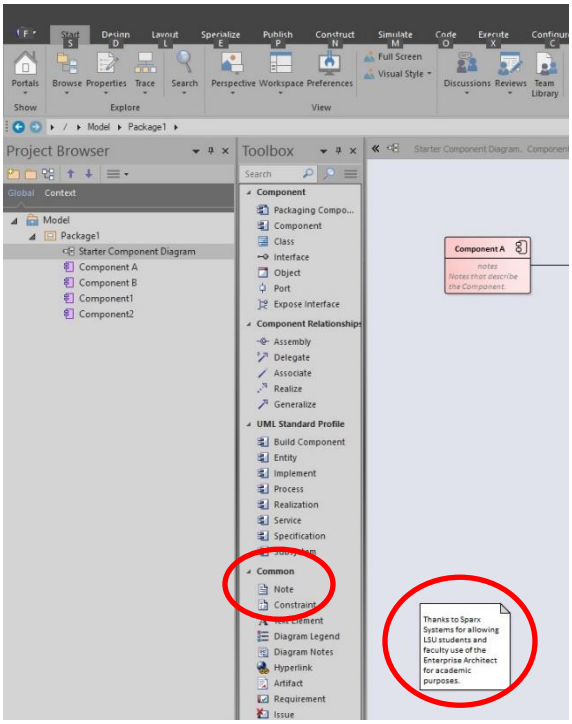
If we need to add a feature to our diagram that is not listed in the Toolbox for the type of diagram we are working on, we can navigate to other diagram types by clicking the three bars on the Toolbox tool bar:



As an example, the Database Connection model feature can be found in the Data Modeling set of tools:



Our diagrams are never complete until we have thanked Sparx Systems for allowing us to use EA. On all artifacts that you create from EA, you will need to add a Note (found in the Common section of the Toolbox) and include this message on the note: “Thanks to Sparx Systems for allowing LSU students and faculty use of the Enterprise Architect for academic purposes.”



Step 5: Upload files to Moodle

Your EA model will save as an eapx file in your workspace. Place a copy of your <ModelName>.jpg and <ModelName>.eapx files in a folder and zip the folder. Rename the folder <PawsID>.zip, where <PawsID> is your LSU PawsID (i.e., the part of your LSU email that preceeds the @ symbol). Upload the zip file to Moodle.