

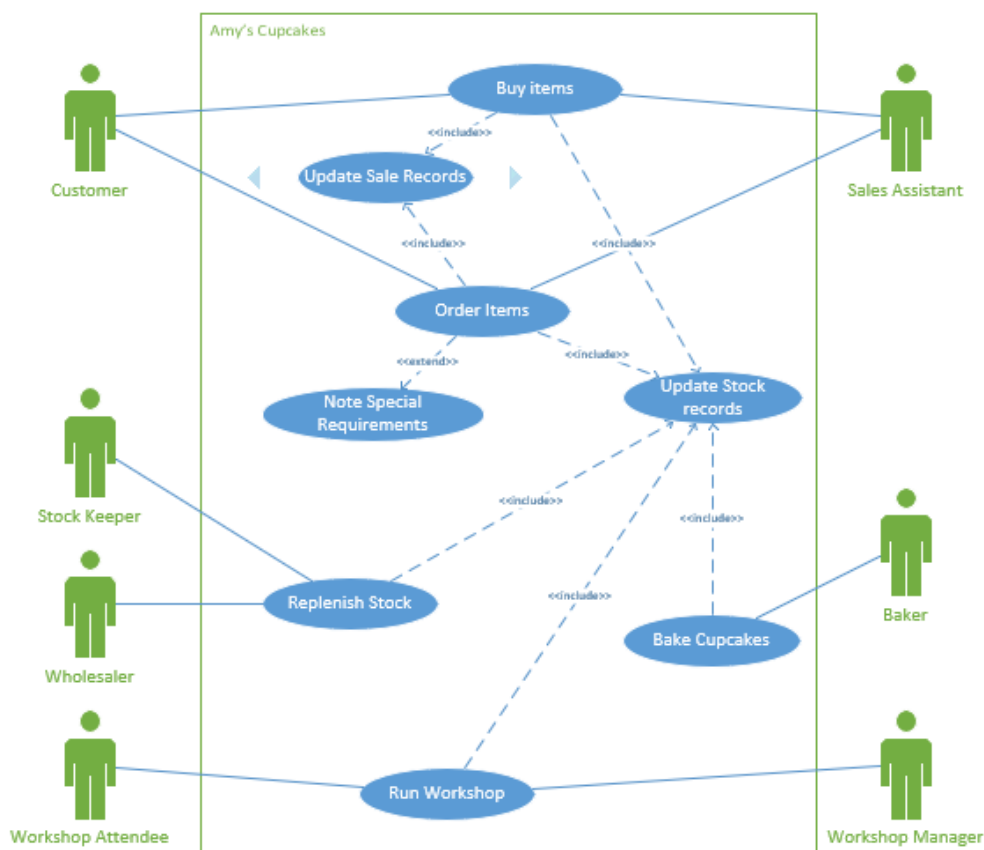
S1.3: UML – Activity Diagrams

For the diagrams this week (and others in the coming weeks) we will be using a piece of software called Microsoft Visio. This should be installed on the lab machines already, however, if not you can install it from the Software Centre. You also have access this at home: download MS Visio from <https://azureforeducation.microsoft.com/devtools> using your UCLan ID to set it up. Alternatively, you can download Argo UML: <https://argouml.en.softonic.com/?ex=BB-1459.1>.

You can work in pairs for today's activities so that you get the opportunity to discuss your answers to the questions with your partner. However, everyone should have a go at creating the diagrams and answering the questions. Your tutor will facilitate a whole class discussion during the session to discuss your answers.

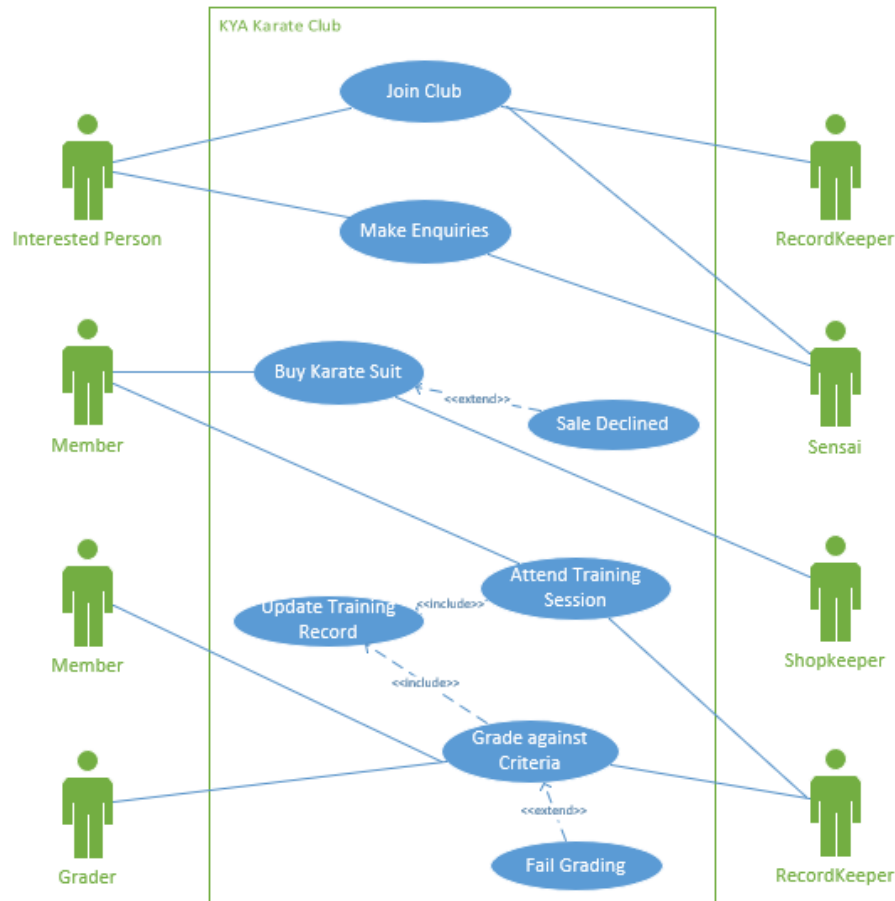
1. Read the **Amy's Cupcakes case study** again carefully. Use Visio to draw an activity diagram for two of the use cases from your use case diagram (from last week) that reflects the way that the system currently operates. Before you start your diagrams write each use case as a story (see example on slide 16).

My example:



2. Read the **KYA Karate Club case study** again carefully. Use Visio to draw an activity diagram for two of the use cases from your use case diagram (from last week) that reflects the way that the system currently operates. Again write each use case as a story before starting the diagrams.

My example:



3. Write 2 or 3 paragraphs describing the purpose of the **decision**, **merge**, **fork**, and **join** nodes. Your explanation should describe the difference between a merge and a join node and include examples of when each would be used.
4. What are **swim lanes** used for in activity diagrams?
5. Write a paragraph outlining the benefits of activity diagrams during the analysis of a software development project.