

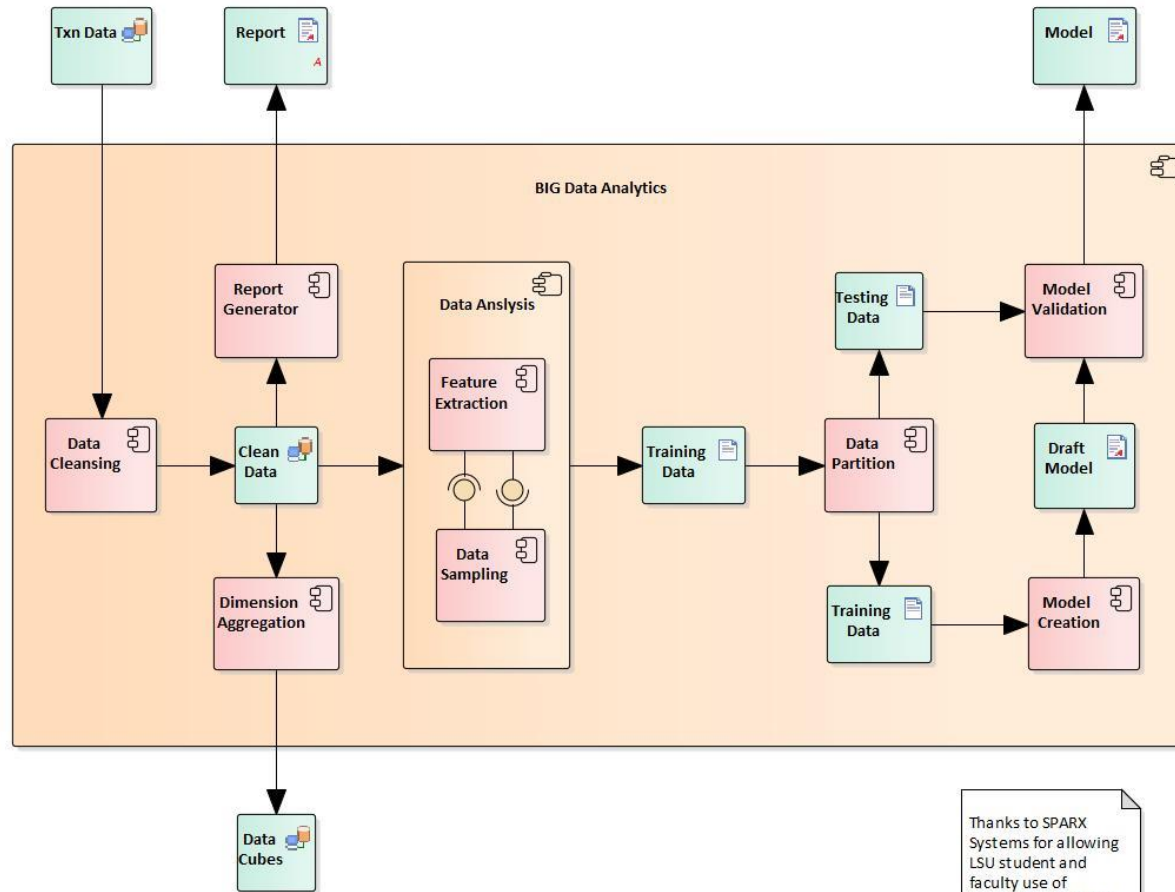
Chat Question from Class

Checkin

- Is there any way you could go over another example like you did in class someday? Like with the twitter api. Over the control flow and interface components.
- Well, I'm going to give it my best...

Twitter API Example

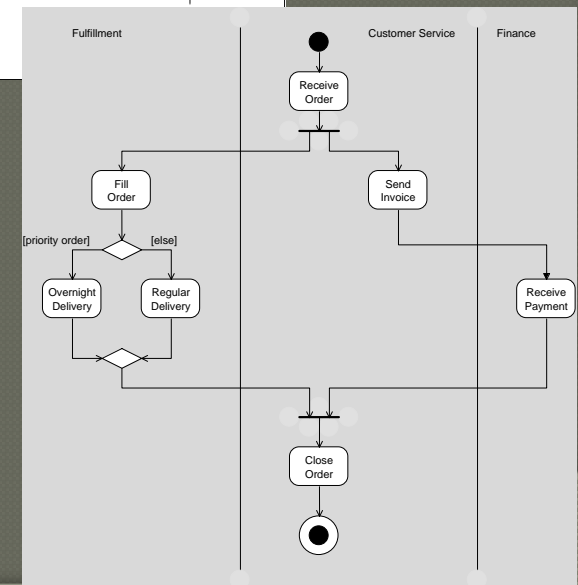
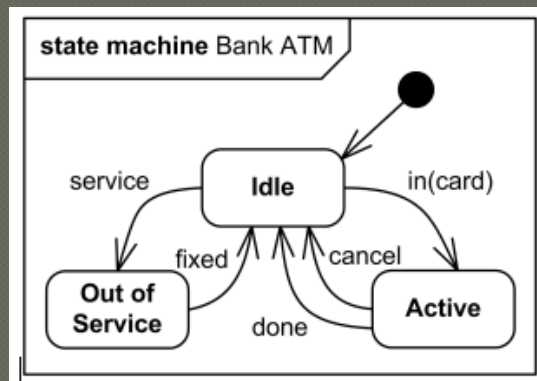
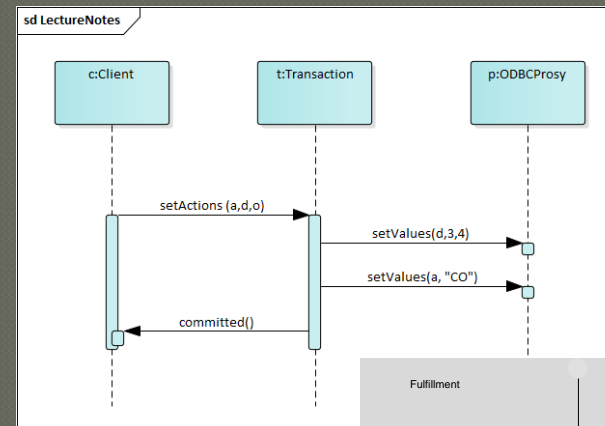
cmp CSC 3380 EA Assignment #1: Component Diagram



Thanks to SPARX Systems for allowing LSU student and faculty use of Enterprise Architect for academic purposes

Control Flow

- Control flow is simply logic flow
- For example,
 - Algorithms
 - Flowcharts
 - Sequence Diagrams
 - Activity Diagrams
 - State Machine Diagrams



Interface Components

- Class Interfaces vs Interfaces vs Component Interfaces vs Interface Components
 - **Class Interface**
 - A class' interface is simply its public methods



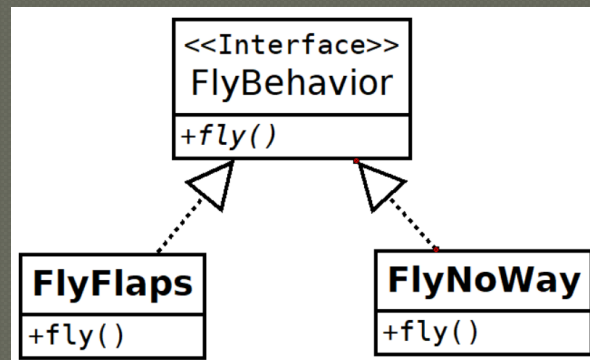
<http://agilemodeling.com/style/classDiagram.htm>

Interface Components

● Class Interfaces vs Interfaces vs Component Interfaces vs Interface Components

• Interfaces

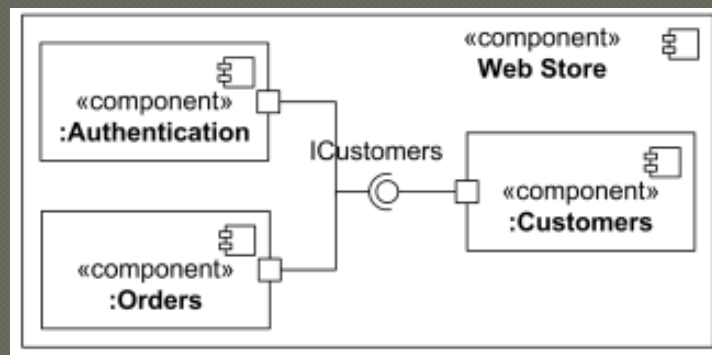
- An abstract class that contains only abstract methods is called an interface
 - It only contains the public method declarations, with no implementation
 - An example of this is the Java interface `Comparable`
 - Classes that implement the class, must implement all of the methods of the abstract class



https://www.researchgate.net/figure/An-example-of-components-and-interfaces-in-UML_fig18_31695877

Interface Components

- Class Interfaces vs Interfaces vs Component Interfaces vs Interface Components
 - **Component Interfaces**
 - A system component is simply a class that is treated like a black-box
 - We don't know anything about the internal workings
 - We only know the published interface (i.e., those public methods)
 - We draw the class as a component, to represent this distinction
 - We draw its interface as a lollipop
 - Other components can connect (literally or figuratively, depending on the implementation) to the component via that lollipop interface only

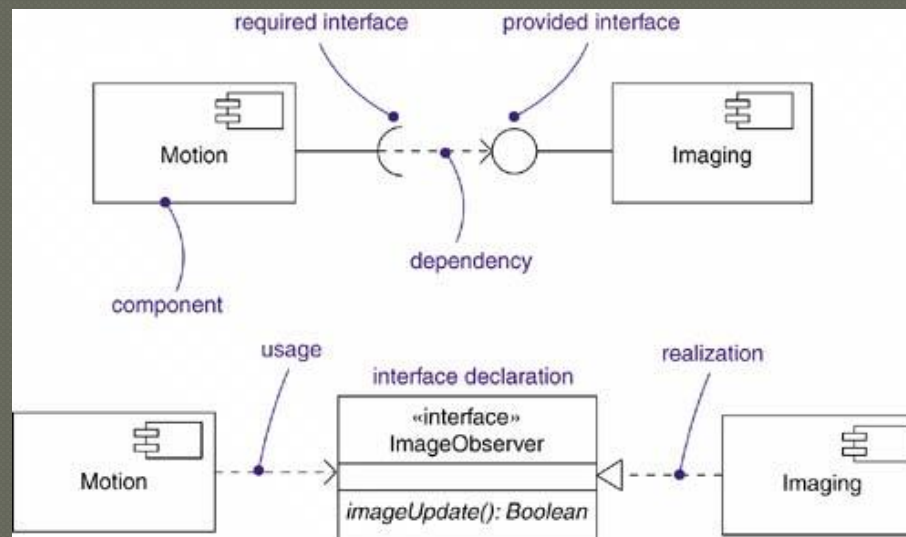


<https://www.uml-diagrams.org/component-diagrams-reference.html>

Interface Components

● Class Interfaces vs Interfaces vs Component Interfaces vs Interface Components

- Interface Components
 - When component diagrams uses an interface and that information is included on the component diagram, this is done so with an Interface Component



<http://umlguide2.uw.hu/ch15lev1sec2.html>