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Assignment #2

* 1. A component based architecture is a collection of loosely coupled components that provide services for each other, where as a service based architecture is similar except the pieces are more separated and implemented as services, or a self-contained program that runs on its own and provides some kind of service for its clients.
  2. Monolithic would work because tic-tac-toe is a simple game and it will have local high scores. Data centric would work for the game to pull possible moves from. User-Interface will be event-driven and could also make the AI event-driven based on player movement. A distributed architecture would probably be overkill for such a simple tic tac toe game, as well as client-server, multitier, component-based, and service-oriented.
  3. The chess game would now become a monolithic rule-based service-oriented application.
  4. It can store drawings in separate files so the OS can handle file management. Most programs like this implement a temporary file that the user is working on while editing, and if the program crashes then it can be restored from that temp file.



6.1 These classes all share the property of drawing a line between a couple points. If the shapes (Rectangle, Ellipse, and Star) and lines need to be colored then they would share that property as well. The would need to store either the point (x,y) coordinates or a width and a height. The text class has special properties because it needs a font type and the string itself to draw.

6.2 C:\Users\NICK\AppData\Local\Microsoft\Windows\INetCacheContent.Word\Untitled Diagram (1).png

6.3



6.6 You would stick Office Salary Boss and Employees into Salaried and get rid of Manager box.

