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1st midterm Exam

1) a) Complexity can be addressed through 3 different means: abstraction, decomposition, and hierarchy. Change can be addressed in several ways but really is a factor that is affected by time and complexity. Agility is also important to change

b) for an entire system to function, implementing subsystems in the forms of activities can be useful for creating implementable functioning parts, that theoretically could then mold together into the entire system

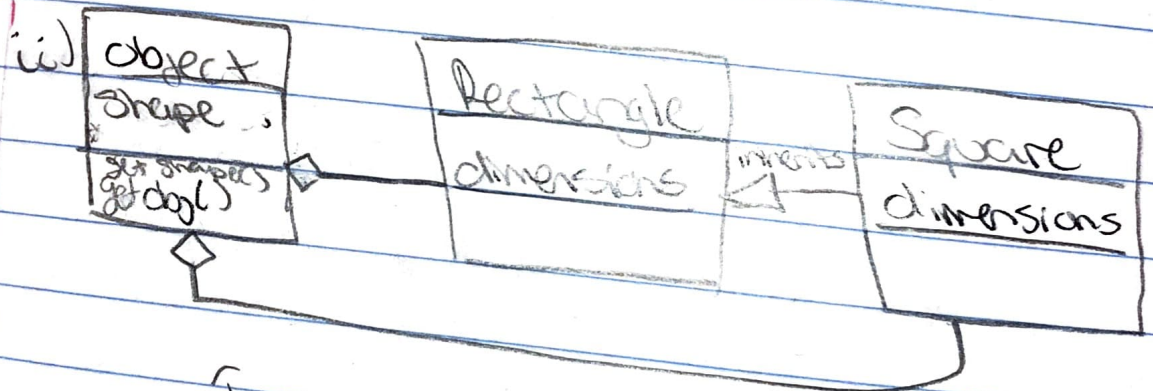
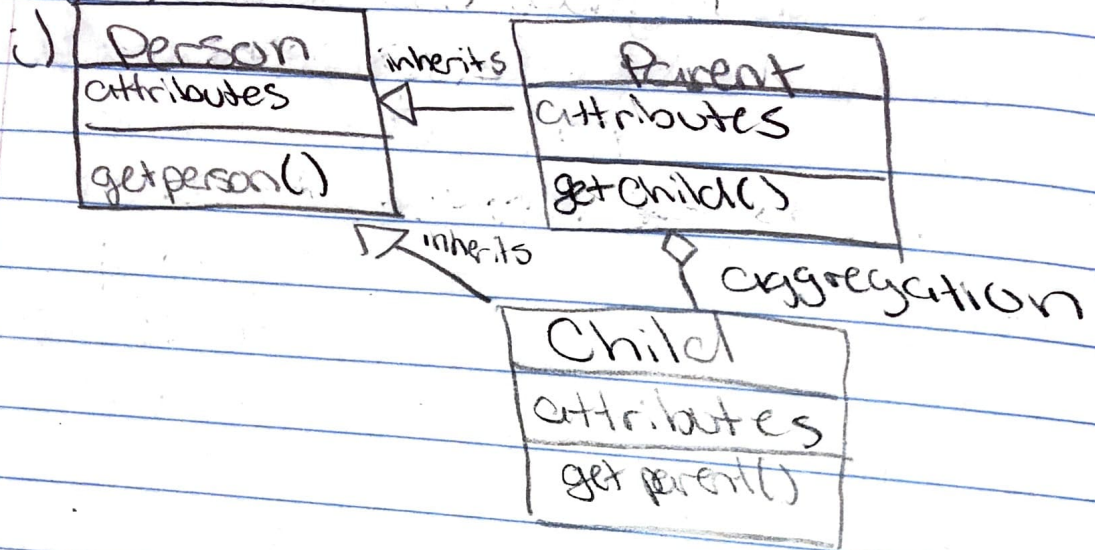
c) Microsofts Security Development lifecycle is a software development process that consists of a set of practices that support security assurance and compliance requirements.

2 Activities:

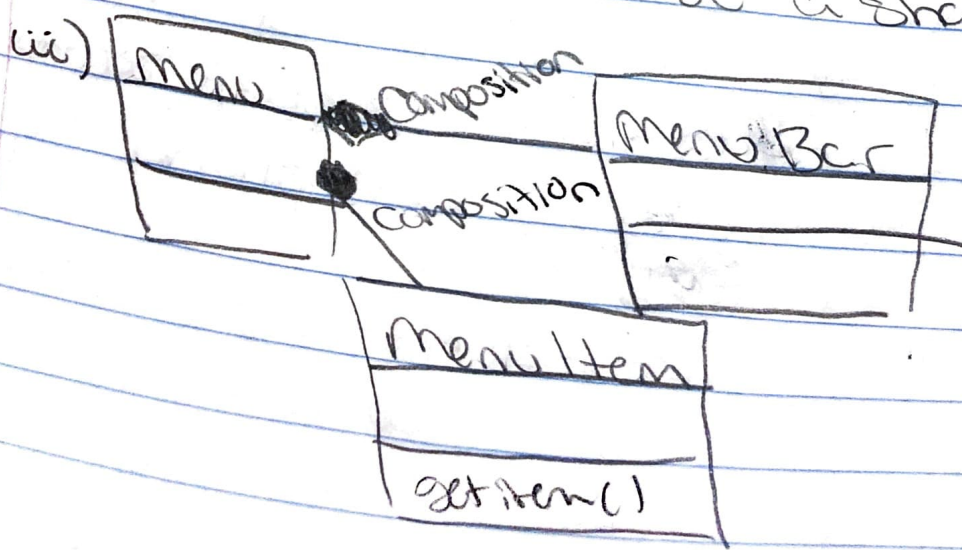
Requirements → establish security requirements

Implementation → use approved tools

2) a)



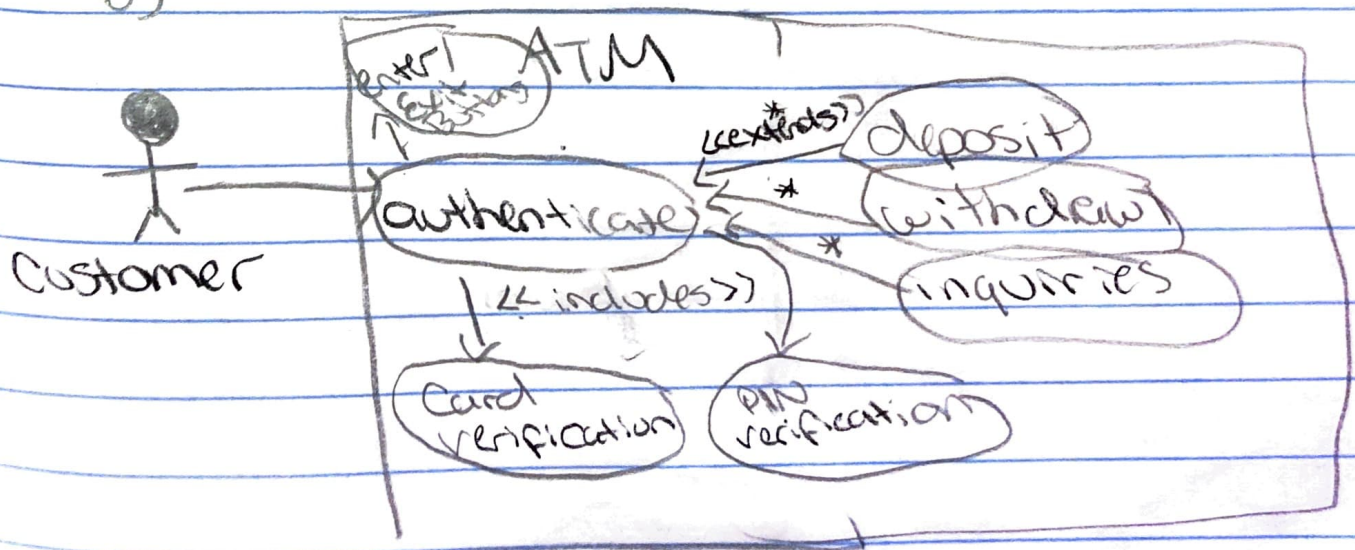
↑
possibly aggregation between rectangle and Square, and object because an object can be a shape



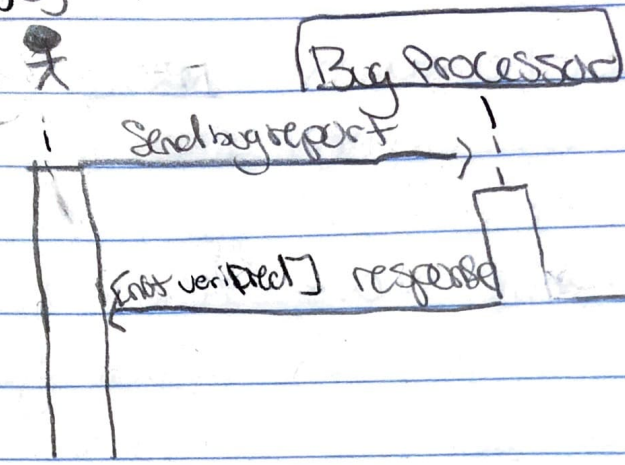
b) A Sequence diagram shows a time oriented view of object interaction during requirement analysis and system design. A state chart describes the sequence of states an object goes through in response to external events. These give a very technical heavy perspective on system design unlike dynamic modeling which shows more user based interaction and general structure.

3/a) three activities in requirement engineering: elicitation, analysis, and validation, which each activity ensures that both the customer and developer are at a mutual understanding

b)



Bug Reporter



5) Verifiability → Can be tested cost effectively

Modifiability → Changes do not affect the structure and style of the Set

Traceability → The Origin of each requirement can be found