

Chapter 13

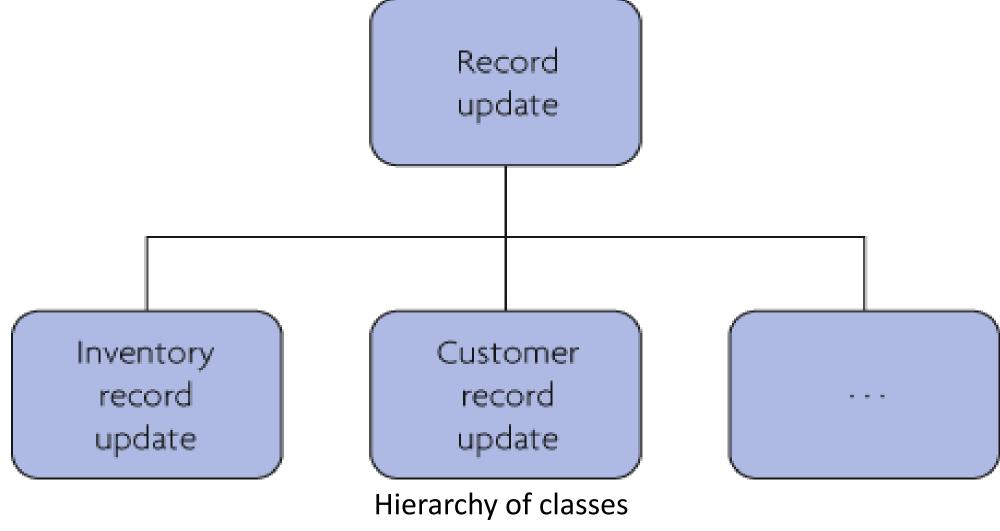
Object-oriented Techniques



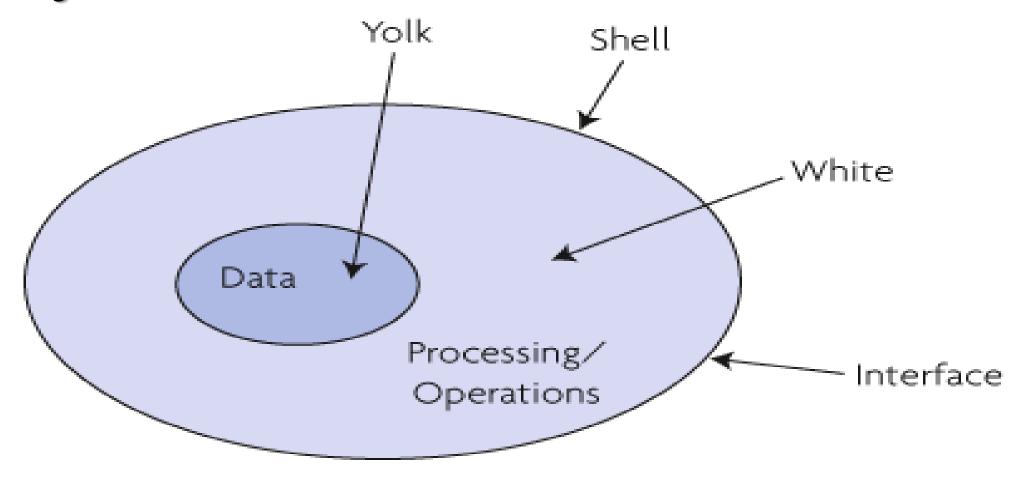
Object oriented programming defines;

- Method of implementation by Booch, 1991
- Object
- Encapsulation



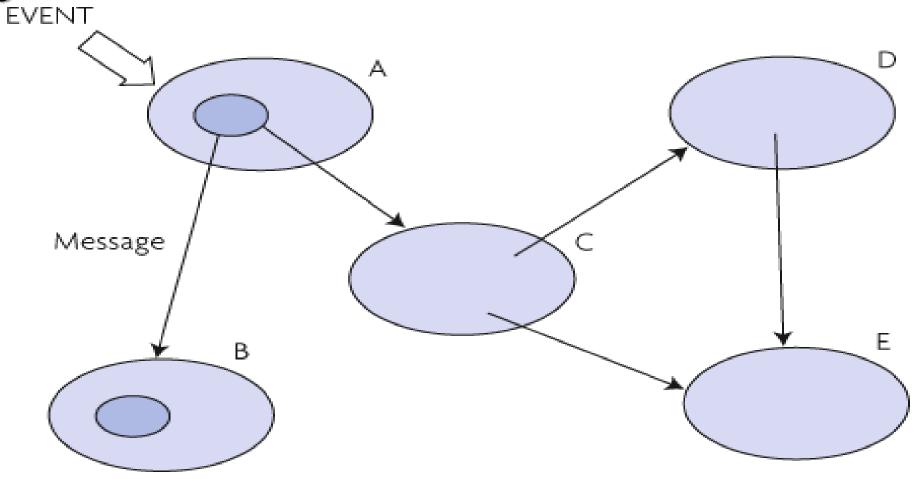






Objects represented by an egg (modified from Daniels and Cook, 1992)





A network of objects make up a program



The seven goals of UML;

- Provide users a ready-to-use, expressive, visual modelling language
- Provide extensibility and specialization mechanisms
- Be independent
- Provide a formal basis for understanding
- Encourage the growth
- Higher-level development
- Integrate best practices and methodologies.



Class diagram

«business»

::Student

RegNumber

Name

Course

ChangeCourse

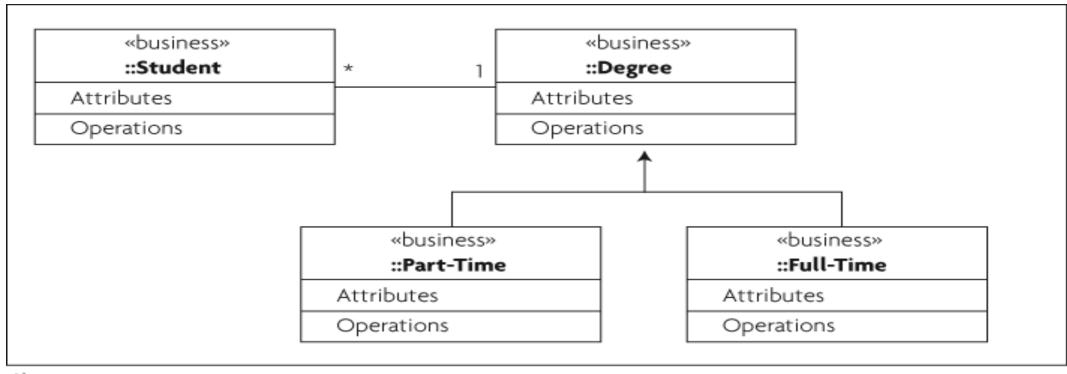
Defer

TerminateReg

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Class diagram



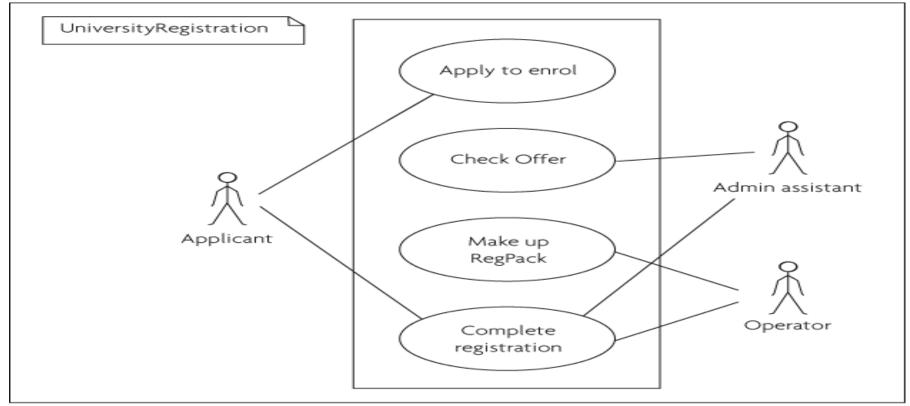
Class Diagram Student Page 1 of 1



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Unified Modelling Language (UML)

Use case diagram



Use Class Diagram Student Page 1 of 1

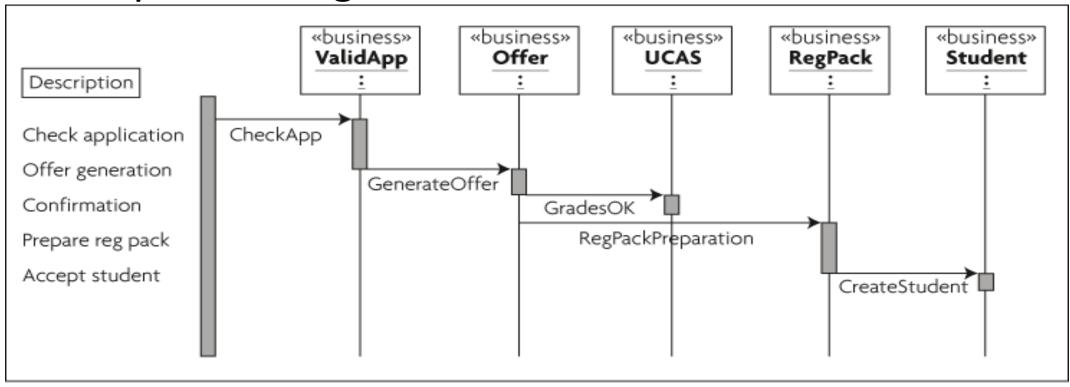


Interaction diagram

- Static
- Two type
 - Sequence diagram
 - Collaboration diagram



The sequence diagram

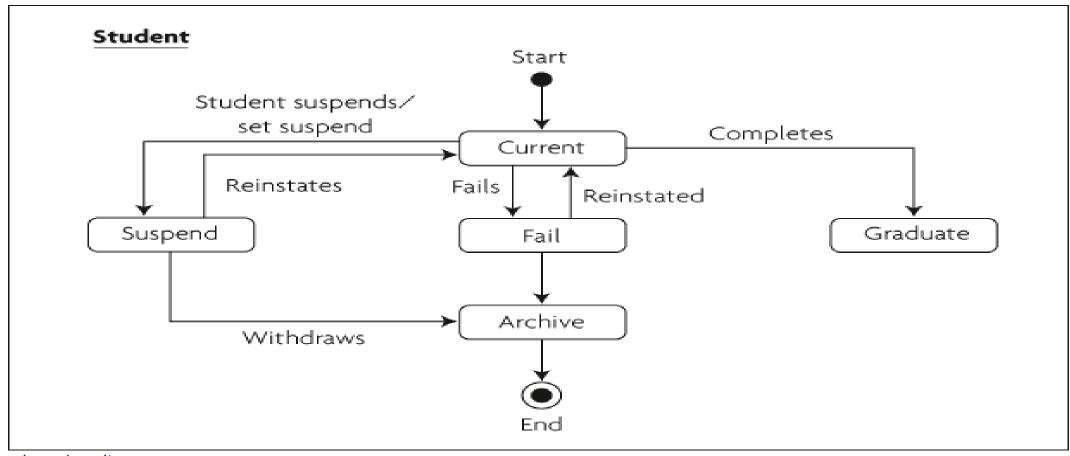


Sequence Diagram Student

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Statechart diagram





Activity diagram

