Object Oriented Analysis

Course Summary

Description

The Unified Modeling Language (UML) is the industry standard notational language for developing object-oriented software. This is an introductory course in object technology. It covers the basic terminology of object-oriented development, focusing on object-oriented analysis of software using the UML. There is no coding in this class and no code examples. A case study of a real software system will be followed throughout the course.
This course is appropriate for anyone interested in learning the basics of object-oriented development. Homework projects are in the form of text documents and UML models of a realistic software system. Use of an OO development tool is encouraged, but not required. Participants should have access to a word processing tool.
This course loosely follows the book "Applying Use Cases Second Edition: A Practical Guide" by Schneider and Winters. The course will be useful for business analysts, managers, marketing professionals, software engineers, test and QA engineers, and technical writers.

Topics

- Business Analysis: Identify the need for change and Understand the existing processes
- Business Analysis: Get input on desired improvements and Define success and how it will be measured
- Eliciting Information
- Finish Business Analysis: Update documentation
- Finish Business Analysis: Identify Requirements
- Business Process to Software
- Software Use Cases
- Advanced Use Cases
- Activity Diagrams
- Review Use Cases
- Key Abstractions and Simple Sequence Diagrams
- Other uses of Use Cases
- Intro to UML and Object Technology
- Use Case Realizations - Collaborations
- Class Diagrams, Packages
- More features of class diagrams
- Reviewing Class diagrams
- Generalization - is a versus has a
- Collaboration Diagrams
- Customizing UML
- Reviewing the analysis model

Prerequisites

There are no prerequisites for this course.

Duration

Five days