Object-oriented modeling and design

Chapter 1

Introduction

Object oriented means a collection of discrete objects that incorporate both data structure and behavior.

The characteristics required by an OO approach include 4 aspects:

Identity, classification, inheritance and polymorphism.

Identity means data is quantized into discrete, distinguishable entities called objects. Objects can be concrete such as a file in a file system. Each object has its own identity. Two objects are distinct even if all there attribute values are identical.

Classification means that objects with the same data structure and behavior are grouped into a class. Each object is said to be an instance of a class. An object has its own value for each attribute but shares the attribute names and operations with other instances of the class.

Inheritance is the sharing of attributes and operations among classes based on a hierarchical relationship. A super class has general information that subclasses refine and elaborate. Each subclass inherits all the features of its super class and adds its own unique features.

Polymorphism means that the same operation may behave differently for different classes. The move operation for example behaves differently for a pawn than for the queen in the chess game.

An operation is a procedure or transformation that an object performs or is subject to. An implementation of an operation by a specific class is called a method.

OO Development:

Development refers to the software life cycle: analysis, design and implementation. The essence of OO Development is the identification and organization of application concepts, rather than their final representation in a programming language.

Modeling Concepts: In the past, much of the programming languages focused on implementation rather than analysis and design.

OO development is a conceptual process independent of a programming language until final stages.OO development is fundamentally a way of thinking and not a programming technique.

Chapter 1 Introduction To Object Oriented Design

Grady Booch, Douglas L. Bryan, Charles G. Petersen

Chapter 1 Introduction To Object Oriented Design:

Learning OOP Design Patterns Lyron Foster, 2023-03-05 This is an essential resource for software developers who want to understand and use object oriented design patterns effectively in their projects The book begins with an introduction to object oriented design patterns and their importance in software development. It then provides an overview of the three main categories of design patterns creational structural and behavioral Each category is explored in detail including specific patterns such as the Singleton Factory Method Adapter and Observer patterns. The book provides best practices for using these patterns in software development and real world examples of their usage. The book also covers advanced design patterns such as the Flyweight Mediator and Visitor patterns as well as anti-patterns and common pitfalls to avoid when using design patterns. Finally the book explores how design patterns can be used in conjunction with popular frameworks and libraries providing examples of their usage in frameworks such as Laravel Spring and React By the end of the book readers will have a solid understanding of object oriented design patterns and how to use them effectively in their software development projects. The book is written in a clear and concise manner making it accessible to developers of all skill levels.

Object-Oriented Programming Understanding Classes and Objects Sunil Kumar Saini, 2023-04-27 Object Oriented Programming Understanding Classes and Objects is a book title that suggests it is a guide to learning about object oriented programming OOP concepts with a focus on classes and objects Object oriented programming is a programming paradigm that emphasizes the use of objects which are instances of classes that encapsulate data and behavior Classes define the structure and behavior of objects while objects are instances of classes that contain data and can perform actions or methods This book likely covers topics such as defining and using classes creating and manipulating objects encapsulation inheritance polymorphism and other OOP principles It may also cover design patterns and best practices for using OOP in software development Overall this book would be a helpful resource for those looking to deepen their understanding of OOP concepts specifically related to classes and objects <u>Practical Object-Oriented Design</u> Sandi Metz, 2018-07-10 The Complete Guide to Writing Maintainable Manageable Pleasing and Powerful Object Oriented Applications Object oriented programming languages exist to help you create beautiful straightforward applications that are easy to change and simple to extend Unfortunately the world is awash with object oriented OO applications that are difficult to understand and expensive to change Practical Object Oriented Design Second Edition immerses you in an OO mindset and teaches you powerful real world object oriented design techniques with simple and practical examples Sandi Metz demonstrates how to build new applications that can survive success and repair existing applications that have become impossible to change Each technique is illustrated with extended examples in the easy to understand Ruby programming language all downloadable from the companion website poodr com Fully updated for Ruby 2 5 this guide shows how to Decide what belongs in a single class Avoid entangling objects that should be kept separate Define flexible interfaces among objects Reduce programming

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inheritance design notations using a simplified form of OMT to describe designs the use of object libraries such as STL creating library classes and the use of design patterns You ll also find useful discussions on advanced language and programming features such as exception handling interprocess communication and debugging tools and techniques

Python: Master the Art of Design Patterns Dusty Phillips, Chetan Giridhar, Sakis Kasampalis, 2016-09-30 Ensure your code is sleek efficient and elegant by mastering powerful Python design patterns About This Book Learn all about abstract design patterns and how to implement them in Python 3 Understand the structural creational and behavioral Python design patterns Get to know the context and application of design patterns to solve real world problems in software architecture design and application development Discover how to simplify Design Pattern implementation using the power of Python 3 Who This Book Is For If you have basic Python skills and wish to learn in depth how to correctly apply appropriate design patterns this course is tailor made for you What You Will Learn Discover what design patterns are and how to apply them to writing Python Implement objects in Python by creating classes and defining methods Separate related objects into a taxonomy of classes and describe the properties and behaviors of those objects via the class interface Understand when to use object oriented features and more importantly when not to use them Get to know proven solutions to common design issues Explore the design principles that form the basis of software design such as loose coupling the Hollywood principle and the Open Close principle among others Use Structural Design Patterns and find out how objects and classes interact to build larger applications Improve the productivity and code base of your application using Python design patterns Secure an interface using the Proxy pattern In Detail Python is an object oriented scripting language that is used in everything from data science to web development Known for its simplicity Python increases productivity and minimizes development time Through applying essential software engineering design patterns to Python Python code becomes even more efficient and reusable from project to project This learning path takes you through every traditional and advanced design pattern best applied to Python code building your skills in writing exceptional Python Divided into three distinct modules you ll go from foundational to advanced concepts by following a series of practical tutorials Start with the bedrock of Python programming the object oriented paradigm Rethink the way you work with Python as you work through the Python data structures and object oriented techniques essential to modern Python programming Build your confidence as you learn Python syntax and how to use OOP principles with Python tools such as Django and Kivy In the second module run through the most common and most useful design patterns from a Python perspective Progress through Singleton patterns Factory patterns Facade patterns and more all with detailed hands on guidance Enhance your professional abilities in in software architecture design and development In the final module run through the more complex and less common design patterns discovering how to apply them to Python coding with the help of real world examples Get to grips with the best practices of writing Python as well as creating systems architecture and troubleshooting issues This Learning Path combines some of the best that Packt

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Object-oriented Programming in C++ Richard Johnsonbaugh, Martin Kalin, 1995 This introduction to object oriented programming in C demonstrates how to implement object oriented design in C It covers current features such as templates multiple inheritance C streams and exception handling Features include assertions and program correctness sample applications and end of chapter sections which discuss common programming errors

Object-oriented Design of

Embedded Systems with Translation to VHDL Gretel Van Lente Coombs, 1998

Developing Assessment Models for Software Reliability at Late Design Phase Bhagyashri Deshpande, 2022-06-03 Doctoral Thesis Dissertation from the year 2021

in the subject Computer Science Software Savitribai Phule Pune University formerly University of Pune Department of Computer Science course Ph D language English abstract In this thesis report the pertinence of the models Neural Network model and Hellinger Net model for better software reliability prediction considering the parameters and software metrics affecting the software design in a real environment is described And a method of software defect detection and software reliability assessment using NN model and Intelligent Water Drop IWD Technique is presented Built on a Neural Network NN two models are developed which predicts the software reliability in a more accurate manner There are two kinds of hybrid models developed One uses IWD with NN and another is IWD with Spiking Neural Network SNN For both the modelling feature selection technique and learning algorithm is implemented and the data representation methods and some metrics associated with software reliability models are discussed Various datasets containing metrics values with software failures are applied to the proposed models These datasets are acquired from variety of software projects Analysis and Design Alan Dennis, Barbara Wixom, David Tegarden, 2020-11-26 Systems Analysis and Design An Object Oriented Approach with UML Sixth Edition helps students develop the core skills required to plan design analyze and implement information systems Offering a practical hands on approach to the subject this textbook is designed to keep students focused on doing SAD rather than simply reading about it Each chapter describes a specific part of the SAD process providing clear instructions a detailed example and practice exercises Students are guided through the topics in the same order as professional analysts working on a typical real world project Now in its sixth edition this edition has been carefully updated to reflect current methods and practices in SAD and prepare students for their future roles as systems analysts Every essential area of systems analysis and design is clearly and thoroughly covered from project management to analysis and design modeling to construction installation and operations The textbook includes access to a range of teaching and learning resources and a running case study of a fictitious healthcare company that shows students how SAD concepts are applied in real life scenarios Introduction to JAVA Programming Y. Daniel Liang, 2007 Programming is above all problem solving This book will help students thoroughly understand real world programming problems and solve those problems guickly and efficiently using Java's sophisticated design and coding facilities A System to Support Object-oriented Design Evolution Jane Ching-Ying Wang, 1997 Abstract In large scale software development design occurs in an evolutionary manner This is particularly true in object oriented development During the design evolution process many changes will be performed to different sets of objects Manually performing these changes and maintaining propagation of changes is a tedious and often quite complicated task In this thesis we present a framework for supporting design evolution We describe a uniform way to define the semantics of object change operators present a set of change operators that can be used to manage and control design evolution of an object oriented system and describe a uniform mechanism to define change operators

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