

Chapter 4 Exercises and Labs

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Section: 000000

1. Analyze the code and determine whether the code illustrates an application of the design principle of **Modularity** and **Encapsulation**.



Figure 4. The structure diagram.

Note in the code that all methods are implemented in the superclass **Account** and the classes **Savings** and **Checking** do not override superclass methods.

1. Does the code illustrate the design principle of **Modularity** and **Encapsulation**?
2. Explain your answer. Be sure to describe the code that illustrates the design principle.
3. Explain how the code illustrates the design principle of **Modularity** and **Encapsulation**.
4. Explain how the code illustrates the design principle of **Modularity** and **Encapsulation**.
5. Explain how the code illustrates the design principle of **Modularity** and **Encapsulation**.
6. Explain how the code illustrates the design principle of **Modularity** and **Encapsulation**.
7. Explain how the code illustrates the design principle of **Modularity** and **Encapsulation**.
8. Explain how the code illustrates the design principle of **Modularity** and **Encapsulation**.

Showing software structure does not mean that you spend all your time in analysis. Below are some design questions.

Problem	What are the design goals?	Is the software structure (UML)
Account	Account	Account
Bank	Bank	Bank
Savings	Savings	Savings
Checking	Checking	Checking
Problem	What are the design goals?	Is the software structure (UML)
Account	Account	Account
Bank	Bank	Bank
Savings	Savings	Savings
Checking	Checking	Checking
Problem	What are the design goals?	Is the software structure (UML)
Account	Account	Account
Bank	Bank	Bank
Savings	Savings	Savings
Checking	Checking	Checking
Problem	What are the design goals?	Is the software structure (UML)
Account	Account	Account
Bank	Bank	Bank
Savings	Savings	Savings
Checking	Checking	Checking

2. Write a brief report. **Requirements**—Analyze the software requirements for software structure. **Design**—Analyze the design for software structure. **Implementation**—Analyze the implementation for software structure.

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Xiang Xie



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Table of Contents Chapter 4 Exercises Msi

1. Understanding the eBook Chapter 4 Exercises Msi
 - The Rise of Digital Reading Chapter 4 Exercises Msi
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 Exercises Msi
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 4 Exercises Msi
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4 Exercises Msi
 - Personalized Recommendations
 - Chapter 4 Exercises Msi User Reviews and Ratings
 - Chapter 4 Exercises Msi and Bestseller Lists
5. Accessing Chapter 4 Exercises Msi Free and Paid eBooks
 - Chapter 4 Exercises Msi Public Domain eBooks

- Chapter 4 Exercises Msi eBook Subscription Services
- Chapter 4 Exercises Msi Budget-Friendly Options
- 6. Navigating Chapter 4 Exercises Msi eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 4 Exercises Msi Compatibility with Devices
 - Chapter 4 Exercises Msi Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 4 Exercises Msi
 - Highlighting and Note-Taking Chapter 4 Exercises Msi
 - Interactive Elements Chapter 4 Exercises Msi
- 8. Staying Engaged with Chapter 4 Exercises Msi
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 4 Exercises Msi
- 9. Balancing eBooks and Physical Books Chapter 4 Exercises Msi
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 4 Exercises Msi
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 4 Exercises Msi
 - Setting Reading Goals Chapter 4 Exercises Msi
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 4 Exercises Msi
 - Fact-Checking eBook Content of Chapter 4 Exercises Msi
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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