Started on Wednesday, 24 April 2024, 10:33 AM

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Time taken 7 mins 19 secs

Grade 81.67 out of 100.00

## QUESTION 1

Correct

Mark 10.00 out of 10.00

SOLID are five basic principles that help to create good software architecture. SOLID is an acronym where:-

A parent class object should be able to refer child objects seamlessly during runtime polymorphism.

A class should take care of only one responsibility.

The Client should not be forced to use an interface if it does not need it.

High-level modules should not depend on low-level modules but should depend on abstraction.

The extension should be preferred over modification.



## QUESTION 2

Correct

Mark 10.00 out of 10.00

This class satisfies the 'Single responsibility principle'?

```
public class Order
{
    public Guid ID { get { /*...*/ } }
    public decimal Total { get { /*...*/ } }
    public List<Item> Items { get { /*...*/ } }
    public User User { get { /*...*/ } }
    public void Load() { /*...*/ }
    public void Save() { /*...*/ }
    public void Update() { /*...*/ }
    public void Remove() { /*...*/ }
}
```

Select one:

True

■ False

QUESTION 3				
Correct				
Mark 10.00 out of 10.00	Mark 10.00 out of 10.00			
What is mean by "Module" and "Reason to change" in explanation?				
Reason to change	Responsibility			
Module	May be class, function, namespace   ✓			
Every Modules should contain only one responsibility. Here the word responsibility depends on the context where we are talking like, when we say module as class responsibility indicates "database responsibility", "reporting responsibility" etc., when we say module as function it indicates "Generating xml from list", "using generated xml for inserting multiple records into sql".				
QUESTION 4				
Correct				
Mark 10.00 out of 10.00				
If you have a library containing a set of classes there are many reasons for which you will prefer to extend it without changing the code that was already written (backward compatibility, regression testing). This is why we have to make sure our modules follow the				
Answer: Open/Cl	osed Principle	<b>~</b>		
QUESTION 5				
Correct				
Mark 10.00 out of 10.00				
According to Robert Martin there are 3 important characteristics of a bad design that should be avoided:				
Select one or more:				
a. Mobility				
□ b. Safity				
☑ c. Rigidity 🗸				
☑ d. Fragility 🗸				
>				
QUESTION 6				
Correct				
Mark 10.00 out of 10.00				
SOLID is a Design Pattern				
Select one:				
○ True				
False   ✓				

QUESTION 7			
Correct			
Mark 10.00 out of 10.00			
This principle states that if we have two reasons to change for a class, we have to split the fu	nctionality into two classes.		
Answer: Single Responsibility Principle	<b>~</b>		
QUESTION 8			
Partially correct			
Mark 6.67 out of 10.00			
What cases can explain Liskov's Substitution Principle?			
What cases can explain ciskov's substitution Principle:			
Select one or more:			
extstyle  ext			
<ul> <li>□ b. The new derived classes should not be able to replace the base classes without any change in the code.</li> </ul>			
c. We must make sure that new derived classes are extending the base classes without changing their behavior.			
<ul> <li>☑ d. The new derived classes should be able to replace the base classes without any change in the code.</li> </ul>			
Base types must be completely substitutable for their derived types.			
QUESTION 9			
Incorrect			
Mark 0.00 out of 10.00			
Due to the Interface Segregation Principle 'Clients should be forced to depend upon interface.	ces that they don't use'.		
Select one:			
□ True      ★			
○ False			
QUESTION 10			
Partially correct			
Mark 5.00 out of 10.00			
Dancardon as las consists Driverials about a that we should describe high level of a second level.	form law law law along interesting		
Dependency Inversion Principle states that we should decouple high-level   modules from low-level modules, introducing an abstraction layer between the high-level   classes and low-level classes. Furthermore, it inverts the dependency: instead of writing our			
details × based on abstractions × , then we should write the details based on abstractions.			
high-level abstractions details			
▼ Tasks. SOLID principles (part 2)			
Jump to			
	DB Design ►		

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