

In code bad smells, a _____ is a pointless code whose absence would result in a cleaner, more efficient and more understandable code.

CS603 Final : Software Architecture and Design By Black Vigo



Choices:

Coupler

Dispensable

Change Preventers

Bloaters

_____ is a bad smell, it occurs when a method requires a lot of information from some other class and is also considered as a symptom of behavioral form of 'god class'.

Choices:

Inappropriate intimacy

Middle man

Message chain

Feature envy

_____ is helpful to apply in a situation where a method is using more features of another class than the class on which it is defined.

Choices:

Copy method

Extract method

Move method

Cohesion

By using state design pattern, when an action is called, it is delegated to the _____ state.

Choices:

Next



Current



Previous



Next-to-Next



The _____ allows an object to alter its behavior when its internal state changes.

Choices:

Observer Design Pattern

Strategy Design Pattern

State Design Pattern

Façade Design Pattern

Observer design pattern defines a _____ dependency between objects.

Choices:

One-to-one

One-to-many

Many-to-many

Both one-to-one and many-to-many

Which of the following code smells is not a type of object-orientation abusers?

Choices:

Switch statement



Temporary field



Refused bequest



Shotgun surgery



_____ is the process of changing a software system.

Choices:

Data Mining

Debugging

Data Modeling

Refactoring

Which of the following code smells is not a type of object-orientation abusers?

Choices:

Switch statement



Temporary field



Refused be quest



Shotgun surgery



Any class that can be attached to a user-interface but is oblivious to the user-interface is referred to as a _____.

Choices:

 Model Interactor Monolithic UI Relationship

_____ improves the performance and responsiveness of your application.

Choices:

Exception Management

Logging and Instrumentation

Caching

Navigation

_____ is a major drawback of using Monolithic User Interfaces(UI) in a software application.

Choices:

Lazy Class

Code Duplication

Data Class

Comments

At the time of designing navigation strategy, consider _____ in a master page, so that it is consistent across pages.

Choices:

Primary navigation



Top Bar Navigation



Encapsulating navigation



Hierarchical website navigation



The _____ of your Web application displays the User Interface (UI) and facilitates user interaction.

Choices:

Service Layer

Business Layer

Data Layer

Presentation Layer

At the time of designing the _____ for your Web application, consider how to implement the business logic and long-running workflows.

Choices:

Service Layer



Data Layer



Business Layer



Presentation Layer



MVC in the MVC architectural pattern stands for Model, View and _____.

Choices:

Connector



Console



Controller



Characteristics



The architecture is a bridge between _____ and the final (concrete) resulting system.

- A. Design
- B.
- C.
- D.

Choices:

Design

Development goals

Developer

Business goals

An architecture can lead us through the path from abstract goals to a/an _____

Choices:

Concrete system

Business goal

Initial system

Design of a system

We can use load balancing when we deploy our Web application on _____ .

Choices:

Single Server



Client side



Local Host



Multiple Servers



Pooling of cloud computing resources can help to efficiently serve _____ .

Choices:

A Single consumer only

Exactly two consumers

Only homogeneous hosts

Multiple consumers

A/An _____ is a part of a software application that performs a specific task, providing functionality to other parts of the same software application or to other software applications.

Choices:

Server



Data



Service



Architecture



A microservice should be a _____ to the consumers of the service in terms of its implementation and complexity.

Choices:

White Box



Black Box



Grey Box



Transparent



A/An _____ takes requests from clients and routes them to the appropriate microservice through its routing configuration.

Choices:

SMTP server



HTTP server



FTP server



UDP server



The two concepts that are related to polyglot microservices are polyglot programming and _____ .

Choices:

Polyglot application

Polyglot language

Polyglot persistence

Polyglot implementation

An architecture is a/an _____ of a system that selects certain details and suppresses others.

Choices:

Abstraction

Study

Breakdown

Analysis

Different views of the human body: the skeletal, the vascular, and the X-ray together they describe the _____ of the human body.

Choices:

Reliability



Element



Architecture



Quality



The architecture should be evaluated for its ability to deliver the system's important _____ attributes.

Choices:

Functionality



Quality



Interface



Control



Wherever possible, design your application so that it can _____ over time to address new requirements and challenges.

Choices:

Consistent



Steady



Change



Stable



_____ add details to the design over multiple passes to make sure that you get the big decisions right first, and then focus on the details.

Choices:

 Incrementally Iteratively Step wise At once

The _____ demonstrates how a typical application might interact with its users, external systems, data sources, and services.

Choices:

Candidate architecture

Reference application architecture

Baseline architecture

Incremental architecture

Module patterns show _____.

Choices:

Components

Designs

Architecture

Modules

The Software architecture design satisfies _____.

Choices:

Coding

Software Testing

Architectural drivers

Software Maintenance

The _____ drive and guide the design of the software architecture.

Choices:

Programming tools

Architectural drivers

Software requirements

System specifications

The Client part of the application contains the _____ code and the Server contains the _____ in Client Server Architecture.

Choices:

User interface, database

Database, user interface

Database, business code

Database, business logic

Segments of the _____ layer are not allowed to use each other, but segments of the _____ layer are.

Choices:

Top, bottom

Bottom, top

Second, first

Last, first

_____ is also known as architectural pattern.

Choices:

Template

Integrated Development Environment (IDE)

Architectural style

Design

Removing temp variable is good thing because they often cause the need for _____ where none are required.

Choices:

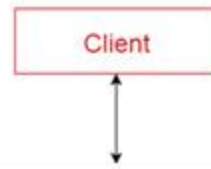
Logic

Code

Parameters

Functions

Which component and connector pattern will be used in the below system's view?



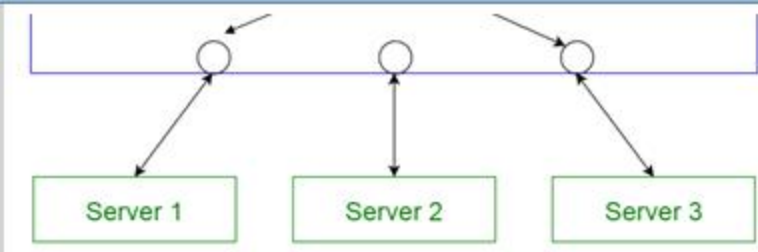
Choices:

Broker pattern

Systematic pattern

MVC pattern

Pipe and filer pattern



Choices:

- Broker pattern
- Systematic pattern
- MVC pattern
- Pipe and filer pattern

The shared-data store is also potentially _____.

Choices:

A no failure

A single point of failure

Always succeed

A double point failure

A _____ is one in which a software application is designed to work as a single, self-contained unit.

Choices:

Micro Services Architecture

Monolithic Architecture

Network Architecture

C-Panel Architecture

Which of the following are the possible refactorings applied on duplicated code?

- 1.Extract method
- 2.Move method
- 3.Extract class
- 4.Abstract class
- 5.Pull Up method
6. Inherited class

Answer:



Martin Fowler has divided the known twenty two bad smells into five categories and "Bloaters" is one of them. Write down the names of any three bad smells that fall in the Bloaters category.

Answer:



You should design a data layer for your web application to abstract the logic which is necessary to access the database. What are the benefits of using a separate data layer?

Answer:



Which Structure is strongly tied to the achievement of performance, availability, and security goals?

Answer:



Patterns can be characterized according to the type of architectural elements they use.
You are required to enlist any two allocation type patterns.

Answer:



Define the concept sidecar with the help of a diagram.

Answer:



Dispensable is a category of bad smell in code, identify the different types of dispensables in code from the given options.

1. Comments
2. Move method
3. Extract method
4. Duplicate code
5. Lazy class
6. Abstract class

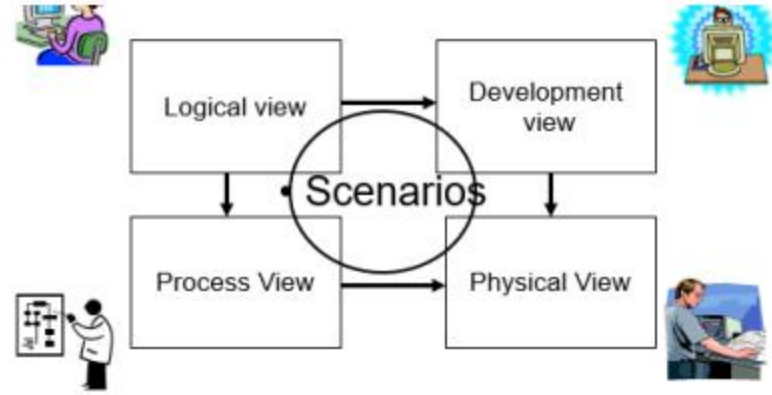
Answer:



Which types of guidelines should be followed at the time of designing request processing strategy for a web application? Explain.

Answer:





Answer:



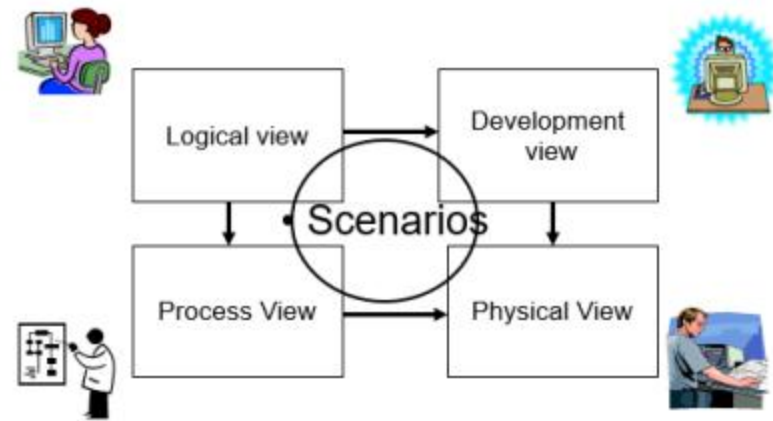
Enlist at least four uses of Software Architecture Patterns?

Answer:



A large, empty white rectangular area intended for the user to type their answer to the question.

4+1 View Model of Architecture is given below which represents the four different views, you are required to identify the viewers of each type of view and mention their names.



Answer:

