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# Final\_Questions

## Question

7.0 points possible (graded, results hidden)
Look at this model folder containing these classes.

```
Class Phone{
     bool wired()
     string ageOfInnovation()
 }
 Class CellPhone extends Phone{
     bool wired(){
         return false;
     string ageOfInnovation(){
         return "1970's"
     }
     int thickness(){
         return 0;
 }
 Class SmartPhone extends CellPhone{
     bool wired(){
         return false;
     string ageOfInnovation(){
         return "1990's"
     }
     string popularlyCalled(){
         return "mobile"
     }
     string mainFeature(){
         return "Internet Capability";
 }
What's the depth of inheritance for mobile phones?
How many methods are overridden/overloaded altogether?
What is the number of inherited methods?
```

Dispose you are thinking of making something like Facebook where users can only upload videos, images and recordings and add a caption to it. Other users can view those and react, comment and share. Based on that each user will have a popularity rating which will be automatically updated by the system. This app will be both mobile based and web based. Now, based on the above scenario answer the following questions - Which architectural pattern should be used for the overall development of the project?    Repository   Client-server   Cli	Let us know the Specialization I	ndex for to 2 decimal places?(count NMO as overload+override)
what is NMA of this code snippet?  What is NMA of this code snippet?  ets say while building this api QA team got 25 problem while testing it and when the api is released you got 5 bug reports. Would please use a software metrics system to measure your Defect removal efficiency? (Answer to 2 decimal places)  Wultiple Choice  O points possible (graded, results hidden) Suppose you are thinking of making something like Facebook where users can only upload videos, images and recordings and add a caption to it. Other users can view hose and react, comment and share. Based on that each user will have a popularity ating which will be automatically updated by the system. This app will be both mobile based and web based. Now, based on the above scenario answer the following questions - Which architectural pattern should be used for the overall development of the project?  Repository  Client-server		
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ets say while building this api QA team got 25 problem while testing it and when the api is released you got 5 bug reports. Vould please use a software metrics system to measure your Defect removal efficiency? (Answer to 2 decimal places)  **Submit** You have used 0 of 1 attempt*  **Multiple Choice**  **O points possible (graded, results hidden)**  **Suppose you are thinking of making something like Facebook where users can only upload videos, images and recordings and add a caption to it. Other users can view hose and react, comment and share. Based on that each user will have a popularity rating which will be automatically updated by the system. This app will be both mobile based and web based. Now, based on the above scenario answer the following questions - Which architectural pattern should be used for the overall development of the project?    Repository   Client-server   Cli		
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Repository  Client-server	those and react, com rating which will be a	ment and share. Based on that each user will have a popularity utomatically updated by the system. This app will be both
Client-server	• ,	·
	Repository	
O Pipe filter	Client-server	
	Pipe filter	

22, 9:02 PM	Final_Questions   Fall2021_final   CSE470 Courseware   buX   BRAC University
Layered	
-	y to expand this system and add multi language features and res in the long run. In that case which architectural pattern would be
Repository	
Client-server	
Pipe filter	
Layered	
If you want to inshould you follow	tegrate the Analytics module with this, which architecture pattern w?
should you follow	·
should you follow	·
should you follow Repository Client-server	·
should you follow Repository Client-server Pipe filter Layered	·
should you follow Repository Client-server Pipe filter Layered Which part of M	w?
should you follow Repository Client-server Pipe filter Layered Which part of M'	w?

Present	ation layer
Busines	s layer
Persiste	nce layer
O Databa	se layer
	the patterns increase system overhead for incompatible data structure?
Reposit	ory Pattern
Client s	erver Pattern
opipe filt	er pattern
	you got a job in microsoft and they want to rebuild their Visual Studio
.et's say E#/C++	you got a job in microsoft and they want to rebuild their Visual Studio platform.What architectural pattern do you think should be used to do it?
.et's say C#/C++	you got a job in microsoft and they want to rebuild their Visual Studio
Let's say  C#/C++  Reposit  Client s	you got a job in microsoft and they want to rebuild their Visual Studio platform.What architectural pattern do you think should be used to do it? ory Pattern
Let's say  C#/C++  Reposit  Client s	you got a job in microsoft and they want to rebuild their Visual Studio platform.What architectural pattern do you think should be used to do it?  ory Pattern  erver Pattern
Let's say  C#/C++  Reposit  Client s  pipe filt	you got a job in microsoft and they want to rebuild their Visual Studio platform.What architectural pattern do you think should be used to do it?  ory Pattern  erver Pattern  er pattern
Let's say  C#/C++  Reposit  Client s  pipe filt  None o	you got a job in microsoft and they want to rebuild their Visual Studio platform.What architectural pattern do you think should be used to do it ory Pattern  erver Pattern  er pattern  f these pattern
Let's say C#/C++  Reposit Client s pipe filt None of	you got a job in microsoft and they want to rebuild their Visual Studio platform.What architectural pattern do you think should be used to do it ory Pattern  erver Pattern  er pattern  f these pattern

ctivity	Duration	Predecessors				
	10					
	0					
	8	Α				
)	1					
	10	D				
:	0	С				
i	9	A, B				
he follow	ving <b>specifi</b>	ied nodes.		Early Finish (EF), Late	Start (LS), Late Finish (L ert 7 only)	F) and Slack Time o
ctivity		ES	EF	LS	LF	Slack Time
:						
:						
i						
Subm	it You h	ave used 0 of 1 at	tempt			
Questi	on					
		ded, results hidden				
Vhich	of the	tollowing is	s an example (	of refactoring?		
refa	actoring to	change external	authentication proto	ocol from LDAP to SAM	1L	
refa	actoring to	change API auth	nentication from custo	om protocol to JWT ba	ased	

9:02 PM	Final_Questions   Fall2021_final   CSE470 Courseware   buX   BRAC University  o use repository pattern for ORM encapsulation
relactoring t	ruse repository pattern for Only encapsulation
all of the abo	ve
none of the	bove
Submit You	have used 0 of 1 attempt
Question	
.0 point possible (gı	aded, results hidden)
Vhich of the	following is an example of refactoring?
refactoring t	b block SSRF (Server-side request forgery) attacks
refactoring t	o increase SSRF (Server-side request forgery) protection
refactoring t	b block CSRF (Cross-Site Request Forgery) attacks
refactoring t	o alter CORS (Cross-Origin Resource Sharing) policy
all of the abo	ve
none of the	ibove
Submit You	have used 0 of 1 attempt
Question	
	aded, results hidden)
Consider the	code below and select which

```
public class FileUploader {
    protected boolean status = null;
    protected final string basePath;
    protected storageType;
    protected storagePath;
    public FileUploader (string storageType, string storagePath) {
        this.storageType = storageType;
        this.storagePath = storagePath;
        this.basePath = findBasePath();
    }
    protected findBasePath () {
        FileStorage storage = new FileStorage(this.storageType);
        return storage.getBasePath();
    }
    public function storeFile (FileReader file) {
        FileStorage storage = new FileStorage(this.storageType);
        storage.storeFile(file, this.storagePath);
        return storage.getFilePath();
    }
}
```

What what should be done to remove the code smells?

Give proper names to variables and methods
Extract method
Rename method
Introduce param object
Move method
Move field
Pull up field

Submit

You have used 0 of 1 attempt

## Question

1.0 point possible (graded, results hidden)

You are reviewing a system which allows employees to view their evaluations, enter reports under specific categories and read reports under specific categories. The classes responsible for evaluations, writing reports and reading reports all have a method which checks for permissions to be able to perform the actions. All these method first check the access level of the employees (normal, department head, administrative or system admin) and then matches it to the access level of the resource. If the access level of the resource is lower or eqal to the access level of the employee, then the resource is returned. In case of evaluations, the evaluation is returned, for writing a report a form is returned and for reading a report the report is returned. In this scenario what should be done?

Leave things as it is, since changing things might lead to an error
Create an abstract class for the permission checker and have the other classes implement them
Create a utility class which checks for the permission and returns a boolean
There is insufficient information to decide
None of the above
There would be no code smell so nothing needs to be done
Submit You have used 0 of 1 attempt

#### **Question**

1.0 point possible (graded, results hidden)

In any kind of web application, having a database and a database connection is necessary. In modern computing, the database connection is persisted and public within the application system. What kind of desing pattern must be implemented here?

Observer pattern
Singleton pattern
Adapter pattern
Repository pattern
None of the above
Submit You have used 0 of 1 attempt

#### Question

2.5 points possible (graded, results hidden)
Consider the following code snippet -

```
public class Test {
        public void Run() {
                int a, b ,c;
                a = 2, b = 7, c = 7;
                for(int i = 0; i < 2; i++) {
                        b = a + c;
                for(int i = 0; i < 4; i++) {
                        print("Something else");
                        print("Hello World");
                if(c > b) {
                        print("Hello World");
                        print(c++);
                        print(b - a);
                }
        }
}
```

Now, Number the Program Lines and Draw the Control Flow Graph of the program. Then, Insert the following values-

Insert the **Number of Predicate Nodes** in the graph -

	clomatic Complexity Value of the g	•	
Submit	You have used 0 of 1 attempt		
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