GitHub is a code versioning tool and collaboration platform for software developers.

pool(get,check out) and push(check in)

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- 1. Exam for this subject is already scheduled on this date.
- 2. Date is already assinged for this subject Exam

Daily Activity

- 1. Get Latest code from GitHub
- 2. Check FDTS for new Task/Bug/Change Request/Ticket.
- 3. Check out required files from GitHub to resolve the bug or work on new task.
- 4. Develop code to fix bug or implement new functionality
- 5. Develop Unit testcase if required
- 6. Unit Test functionality.
- 7. Get code review done if required.(ARAXIS tool)
- 8. Compare code and remove any hard coding or debug statement before check-in the code.
- 9. Send status email to Project Lead.
- 10. Fill Time sheet before leaving for the day.

Modules

- 1. College Management
- 2. Student Management
- 3. Marksheet Management
- 4. User Management
- 5. Faculty Management
- 6. Course Management
- 7. Time Table Management
- 8. Role Module
- 9. Subject Module

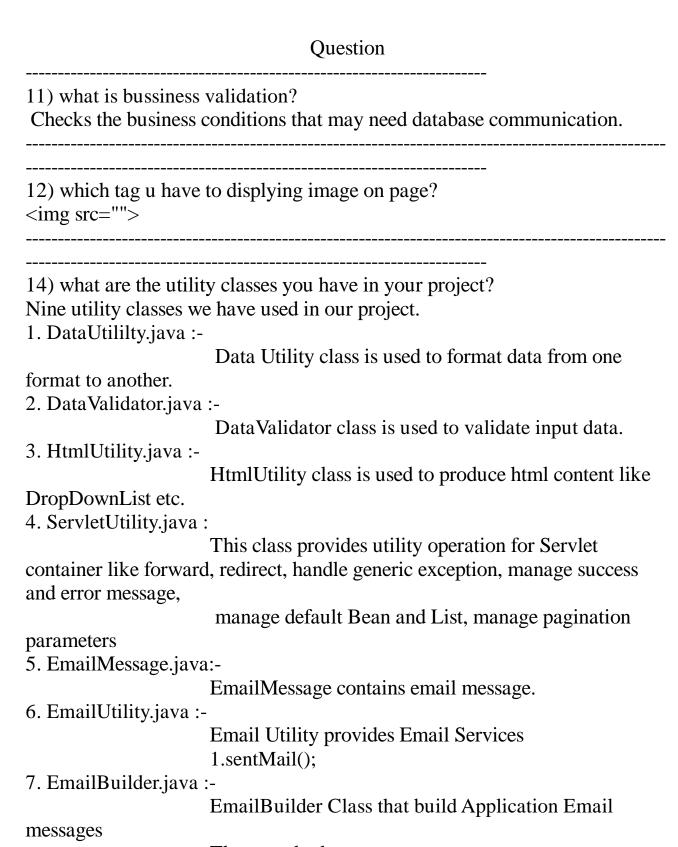
⁻Technologies

	Question	
1.	JDK 1.8	
2.	JSP 2.2(2.3 latest version)/Servlet 3.1(4.2) bita version	
3.	JDBC 3.0 (4.2 latest version)	
4.	MySQL 5.1.6	
5.	Java Mail API 1.4.7	
6.	Log4j 1.2.17	
Tools		
1.	Eclipse Mars 1	
2.	SQLYog 9.0	
3.	ArgoUML	
4.	ER Win	
======	======================================	
_	attern: Builder Pattern builds complex objects using simple object by step approach.	
Abstract Factory:- it is pattern work around a super factory which create other factories.		
Use Case: one complete functionality is called UseCase.		
Modules:- set of related use case is called Modules.		
who creat	e the release note?	
Ans) Deloyepment leader.		
we are not change db as we use native SQL.		
How to start server on tomcat server? Tomcat +bin+startup.batch		
Tomcat +bin+shutdown.batch		
_		
How to start server on JBoss server?		
JBoss +bin+standlone.batch		
Ctrl+C and press Y		

Tomcat Tomcat + config +server.xml <connector connectiontimeout="20000" port="8080" protocol="HTTP/1.1" redirectport="8443"></connector>
JBoss JBoss + configuration + stantlone.xml Keep alive timeout Socket binding portNumber
=== Copy Write : - ©
Why we create custom exception? Ans) to generate self Exception. it can be understand by developer.
DML - it is used to perform CRUD operation. DDL :- it is used to perform create table, alter table, drop table. DCL :- it is used to rollback and commit.
Actor is responsible to perform action.
BUILD QUESTIONS
O1) what is ORS ? Ans) ORS is a online Web Application that manage the student and marksheet records.
02) dependencies in pom.xml?

	Question	
Ans)	JavaMail 1.4.7	
	Servlet 3.1.0	
	Log4J 1.2.17	
	MySql 5.1.6	
	c3p0 0.9.5-pre8	
03) types	s of validation in the project?	
Ans)	There are two types of validations in our Projects.	
1 1113)	Validations	
	1.ServerSideValidations	
	1.1.InputValidations	
	1.Decarative	
	2.Programative Validations	
	1.2.Business Validations(Check from Database)	
	2.ClientSide Validations	
	Use JavaScript	
Ans) Jav	you can apply the client side validation? aScript	
	SSSS	
05) write	e the modeules yout have worked on in the projet?	
1.UserBe	ean.java	
	2.UserModel.java	
3.UserView.jsp		
4.UserCtl.java		
5.UserListCtl.java		
6.UserLi	stView.jsp	
•	fileCtl.java	
8.MyProfileView.jsp		

9.ChangePasswordCtl.java 10.ChangePasswordView.jsp
11.ForgotPasswordCtl.java 12.ForgotPasswordView.jsp
13.UserRegistrationCtl.java 14.UserRegistrationView.java
Q) Write the component of ForgetPassword ? UserBean.java UserModel.java ForgetPasswordView.jsp ForgetPasswordCtl.java
O6) what is pom.xml? Ans) It is a Xml file that contains information about the project and contains confriguration details used by maven to build the project.
O7) what is web.xml? Ans) it is Xml file that contains application confrigurations and it is also called Deployment Descriptor.
09) success messages flow?
10) how you are performing bussiness validation? firstly we have propagated exception on model and we have catched and Set on ctl and get on view.



Three method

1.getUserRegistrationMessage();

2. getForgotPasswordMessage();

3.getChangePasswordMessage();

8. JDB0	CDataSource.java :-
9 Prope	it is a DATA CONNECTION POOL. ertyReader.java :-
7.11opc	Read the property values from application properties
file usin	g Resource Bundle
31.	···
Ans)	Utility classes is used to reusability and reuseable services.
16) how	u r sending email?
,	By using some custom class first name EmailMessage,
EmailU	tility, EmailBuilder.
17) wha	at are the classes you have used to sending emails?
	We have used six classes for sending email those are used in Email
utiltiy C	Class which are following:
	1.Message
	2.Transport 3.PassportAuthentication
	4.MimeMessage
	5.Session
	6.InternetAddress
18) whe	ere you have placed sendMail() in your project? EmailUtility
*	te the method siganature of all method of one module?
Ans)	public Integer nextPK(){}
	public long add(FacultyBean bean) { }
	<pre>public FacultyBean findByPk(long pk){ } public FacultyBean findByEmail(String email){ }</pre>
	paono i acampoan imadybinan(bung chan) ()

Question public void Delete(FacultyBean bean){} public void Update(FacultyBean bean){} public List search(FacultyBean bean){} public List search(FacultyBena bean,int pageNo,int pageSize){} public List list(){} public List list(int pageNo,int pageSize){ } Q.20) Command Design Pattern: follow on controller. O.21) How can you achieve data abstration? Data Abstraction is process of hiding the implementation details Ans) and showing only the functionality. 2. Data Abstration in java is achieved by using interface and abstract class. Q.22) How can you achieve full abstration in your application? by using interface. Ans) Q.23) What is Abstract Class? Ans) Abstract class is used when parent need to provide default behavior along with abstract method. It enforces child classes to impletment specialized behavior of abstract methods. It can never be instantiated. Q.24) What is Business Primarey key? Ans) It contains Business information and it is related with database records. _____ Q.25) What is Non Business Primary Key? Ans) It does not contain business information and it is not related with database. _____

Referencial Integrity Ans) it ensure that relationship between two tables remains synchronized during update or Delete operations.	
-	
2. Ans)	What is input validation and bussness validation? Input validations checks inputs data entered by user. Checks the business conditions that may need database nication.
3. Ans) generic	Why override service method? We create custom ctl in which we write service method to provide operation flow. we are not override the service method.
4. Ans) impleme	MVC is a framework technology. It separates code entation of an application into three component Model, View and
5. Ans) understa	What is javadoc.? Javadoc is a documentation which helps other developer to and the project.
6. Ans) exception	What is customize exception? Custom exception is created by developer .we have created own on classs by extends Exception classe .we have created four customize

exception like ApplicationException,RecordNotFoundException,DuplicatedException,Data BaseException. What is tomcat directory sturucture.? 7. /AppRoot 1./WEB-INF 1.1 /classes 1.2 /tags 1.3 /lib 1.4 web.xml 2.JSP Page HTML ,CSS,JS file ,Images,Media files What is jboss directory sturucture.? 8. /AppRoot 1./WEB-INF 1.1 /classes 1.2 /tags 1.3 /lib 1.4 web.xml 2.JSP Page HTML ,CSS,JS file ,Images,Media files What is all tag of jsp? 9. 1. Scripting tag Ans) Scripting tag is used to provide the ability to execute java code inside the jsp 2.Derective tag it is used to inject additional programming statements in source

program.

3.Action tag

it is used to perform some action and task.

1.1 Scriptlet tag<%%>

Ans) it is used to write java control statements

inside JSP page.

1.2 Expression tag<%=%>

it is used to add result of one line expression in the

html response.

1.3 Declaration tag

Ans) it is used to declare variable or methods of Jsp.<%!%>. when Jsp is translated into servlet then contents of declaration tag are copied outside _jspService() mehtod

1.4 JSP comments<%-- --%>

Ans) JSP comment tag is used to add developer's comment for developed jsp code.

2. Directive Elements

2.1 Page directive : it is used to configure

properties of current jsp page.

2.2 Include directive: it is used to include

content of the file on current jsp page.

2.3 Taglisb directive : it is used to create

custom jsp tags.

3.1 The jsp:include

- 3.2 The jsp:forward
- 3.3 The jsp:useBean
- 3.4 The jsp:setProperty
- 3.5 The jsp:getProperty

3.6 The jsp:plugin action tag	
10. Ans)	How many types of session tracikng.? Cookie HiddenForm URL Rewriting
Q Ans)	How many way to destroy session? There are three way of destroy session 1.session.invalidate(); 2. <session-config></session-config>
11. Ans)	How many types of create servlet.? There are three type to create servlet 1.Servlet Interface 2.GenericServlet Class 3.HttpServlet Class
12. Ans)	What is servlet lifecycle.? init() service() destroy()
13. Ans) tomcat	Defference between jboss and tomcat,? 1.JBoss is a Application server whereas Tomcat is a WebServer. 2. JBoss follows distributes transations like as EJB where as follows jsp and servlet. 3.JBoss is havely weight as compare to tomcat.

	4.JBoss works as slow as compare to tomcat.
14.	Defference between web server and application server.?
Ans)	Web server contains only web or servlet container. It can be used
for servlet	, jsp, struts, jsf etc. It can't be used for EJB.
	Application server contains Web and EJB containers. It can be
used for se	ervlet, jsp, struts, jsf, ejb etc. It is a component based product.
15.	Defference between checked exception and unchecked exception.?
Ans)	1
,	classes and their subclasses are uncheked exceptions.
and Entor	Checked exceptions are mandatory to handle.
	The keyword throws is mandatory to propagate checked
exceptions	s and optional for unchecked exceptions.
1.6	
16.	Defference between comparable and comparator.?
Ans)	Comparable has default nature of sorting order. it has a
-	o() method.
2. javax.la	
2.javax.ut	Compartor is customized and it has compare().
17.	Defference between generic servelt and http servlet.?
Ans)	GenericServlet defines a generic and protocol independent servlet
it impleme	ents Servlet interface that has lifecycle methods of a servlet.
	HttpServlet defines an HTTP protocol specific servlet. it inherits
the Generi	icServlet class.
	HttpServlet provides service methods such as doGet() and
doPost() fo	or handling HTTP specific services.

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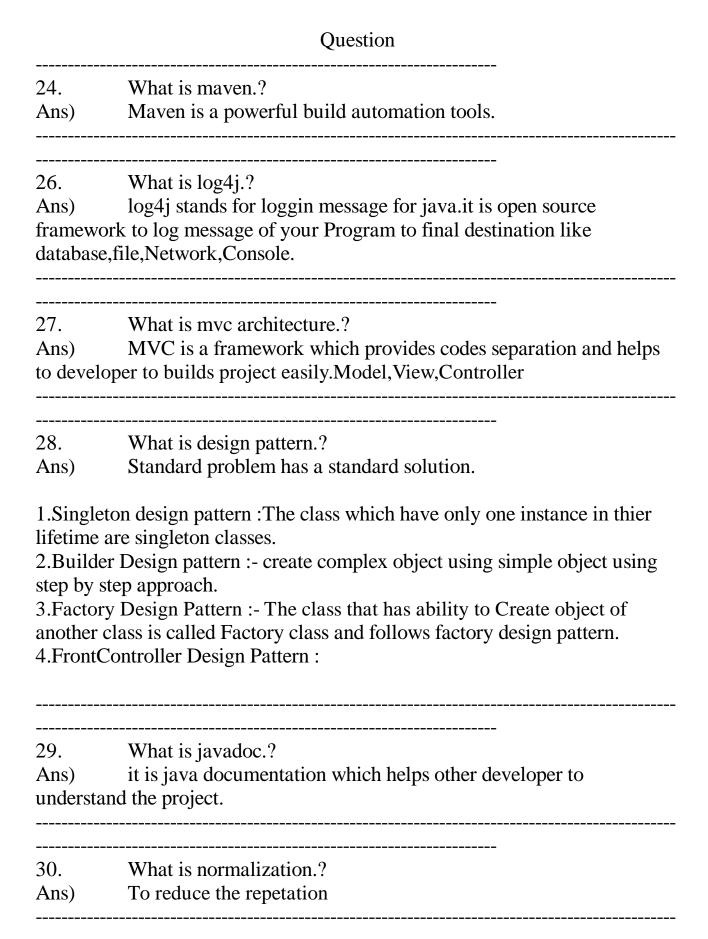
Method forward() of request dispatcher object is used to forward

Defference between forword and send redirect.?

18.

Ans)

request from one servlet to another servlet. Method sendRedirect of request dispatcher object is used to generate new request always and sent to another servlet.	
19. Ans) user syster single user	StringBuilder is Asychronized and not thread safe and used in
20. polymorph	Defference between static polymorphism and dynamic nism.? one by overloadding and dynamic is done method overriding.
21. Ans) resource is false.	Defference between url,uri.? URL has a particular resource in request where as URI check only exist or not. URL brings particular resource where as URI return true and
22. Ans) attributes.	What is base bean .? BaseBean is a parent class of all bean and it contains generic
What is basectl. And all methods.? Ans) BaseCtl is parent ctl of all ctl and it contain generic work flow, generic operation, generic constants. Generic Work flow provides by services method. Generic Operation provides by basectl method. such as preload, validate, populateBean, getView(). Generic Constants provides by all buttons.	



	QuestionQ) What is <jsp:usebean>?</jsp:usebean>
Ans)	
32.	How many scopes in jsp? application
Ans)	session request page (default)
33. Ans)	How many interface have you used in your project? DropDownListBean.java ORSView.java AppRole.java
34. Ans)	How many abstract class have you used in your project.? BaseBean (implement ddlb) BaseModel(getTableName) BaseCtl(getView)
36. Ans)	When run service method.? and who called validate method? every request of user and service called validate method
37.	What is acid properties.
Ans)	Atomicity means all or nothing Consistency means it makes sure that data is in consistent state. Isolation means Transactions are independent Durability means Committed data never lost
38. Ans)	How to call in service method preload and validate.

Question
39. What is the build ? Ans) it is holl complie code of entire application.
How to create a war? Ans) pom.xml me build ki plugin add karte hai 2. Right click on maven and select the update project and forcefully update project. 3. run as me clean maven 4. run as maven install 5. run as maven build and goal set clean install and select skip test 6. apply and run crate on two place 1. target folder me 2. c drive me .m2 file ke under
How to deploy war. target folder se copy karo then standlone ke deployment folder me paste karo and bin me standlone.bat file ko run karo deploymen folder me build file generate hoti hai.
How to create javaDoc? first we put message on method and classs by Alt + Shift+J and then select project menu and choose generate javaDoc. then congifure javadoc.exe path and select destination. select visibility as private And apply and run

40. Who generates the war file?

Ans) I 14 Fouthnig	Deployment Lead gtly
Ans) Develo	many environment are there in Log4j framework? opment (Debug Level), Quality Assurance(Info Level) and environment(Warn Level).
42. why I Ans)	BaseBean is abstract class in your project? Because we do not define two method of DropDownListBean d getValue().
Ans) there a 1.presentation 2.navigation	many layers are present in the mvc architecture? are four layers in mvc on layer (view logic) a layer (controll logic) ayer (business logic, Data access logic, integration logic)
Ans) There	are the implicit objects in jsp? are some implicit objects in jsp 1.request(HttpServletRequest) 2.response(HttpServletResponse) 3.session(HttpSession) 4.application(PageContext) 5.page(current jsp) 6.pageContext(PageContext) 7.out(JspWriter) 8.exception(Trowable) 9config(ServletConfig)
45. how v	will you do file attachment along with email?

45. how will you do file attachment along with email?

Multipart mp = new MimeMultipart();

MimeBodyPart file = new MimeBodyPart();

file.attachFile(); mp.addBodyPart(file);
how many design patterns you have used in your application explain? 1.FrontController Design Pattern(FrontController) 2.Singleton Design Pattern(JDBCDataSource) 3.Builder Design pattern(EmailBuilder) 4.Factory Design Pattern(c3p0)
write the code for search method? select * from st_user where 1=1 AND NAME 'bean.getName()"+"%" opend(order by id desc) opend("limit"+pageNo+","+pageSize);
write the code to make frontcontroller?
what is debugging? Debugging is a process by which developer check the flow of am\operation.
how to perform debugging using keys explain? ctrl +shift+B = to add and remove break point F11= to start debugging F5 source code to source code F6 Attribute and variable debugging F7 Single steping F8 Breakpoint to Breakpoint ctrl+F8 to switch prospective window

52. what is service method? is it compulsary to ovveride it? Ans) service is called at every user request and it is not advisable to over the service method.	ride
53. what is the jsp page life cycle? Ans) jspInit()(JspPage interface) _service() (HttpJspPage) jspDestroy()(JspPage interface)	
54. what is rolling file appender in Log4J? Ans) rolling file appender configured to create new log file every da create a file when given file size is finished.	ay or
55. what is appender in Log4j and types of appender? Ans) Appender is an object that sends log messages to their final destination All the possible appender options are: 1. Console Appender 2. RollingFile Appender 3. DailyRollingFileAppender 4. ExternalRollingFileAppender 5. FileAppender 6. JDBCAppender 7. NullAppender 8. SMTPAppender 9. SocketAppender 10. TelnetAppender	ion.

log4j has three component

- 1.Logger: Responsible for capturing logging information.
- 2. Appender: Responsible for publishing logging information to various preferred destinations.
- 3.layouts: Responsible for formatting logging information in different styles.

Question
56. what is layout in Log4j and types of layouts?
Ans) 1.DateLayout
2.HTMLLayout
3.PatternLayout
4.SimpleLayout
5.XMLLayout
57. what is Logger in Log4j and its levels?
Ans) .Logger : Responsible for capturing logging information.
Level of Log4J:
1.Debug Level(Lowest priroty and Development phase)
2.Info Level(QA)
3.Warn Level(PE)
4.Error Level (QA)
5.Fatal Level
58. what is the pattern layout in Log4j and its symbolic representation
explain?
Ans) layouts: Responsible for formatting logging information in
different styles.
log4j.appender.file.layout.ConversionPattern=%d{yyyy-MM-dd
HH:mm:ss} %-5p %c{1}:%L - %m%n
59. How many exceptions classes you have in your project? Ans)
ApplicationException,DataBaseException,RecordNotFoundException,Dupl

cateException

60. how to create custom exceptions?

Ans) by extends Exception class in our class

62. how to enable session?

sessio	HttpSession session = request.getSession(true); method of Session on.setAttributes(); on.getAttributes();
	difference between session(true) and session(false); HttpSession session = request.getSession(); if any session is existed in application it will get otherwise it will e new session. HttpSession session = request.getSession(true); it always create new session.
	how to format the code? Shift +F
Ans) resol devel	what is release note in build process? release note is documentation which contains Applications version, lved bug, open bug and working functionality. and it is created by loyment lead. creating war.
66.	how to disable Log4j messages? By using OFF by replace DEBUG level
67. Ans)	what if there is not an entry of welcome file in web.xml explain? The index.jsp file is existed in webapp folder so application is run.
68.	how to set timeout for session in web.xml? <session-config> <session-timeout>20<session-timeout></session-timeout></session-timeout></session-config>

69.	what is the default timeout for session? web.xml 30 minutes(Server.xml)
70. Ans)	difference between session and cookies? session stored on server side and cookies stored in browser.
	how to identify user on server? by using session
73. Ans)	list out the name of web server and application server? WebServer List 1.Aparche Tomcat 2.Resin 3.Klone 4.Oracle Web Tier Application Server List 1.JBoss 2.WebLogics 3.GlassFish 4.Websphere 4. Jttey
74. Ans)	how u r performing encapsulation in your project? encapsulations means gather all related infomation.
	how you r using ovveriding concept in your project? All basectl method

76. Ans)	how u are identify ur exception classes are checked aur uncheked? Checked exception is mandatory to handle and unchecked not.
77.	write the folder structure of Tomcat and JBoss ? Tomcat
	bin\config\liberary\log\webapps\temp\work JBoss
	llions\appclient\bin\docs\domain\modules\standlone(configruation)(deplent)\welcome-content
oyme	ent)\welcome-content
	ent)\welcome-content thor
oyme	ent)\welcome-content thor
oyme	ent)\welcome-content chor rsion cyright
oyme	ent)\welcome-content chor rsion oyright urn
oyme @aut @ver @cop @ret	ent)\welcome-content chor rsion oyright urn ows
oyme @aut @ver @cop @ret @thr @par	ent)\welcome-content chor rsion oyright urn ows

preload means already define data on jsp