

d. ServletUtility: This class provides utility operation for servlet container like forward, redirect,

manage success and error message, handle generic exception, manage default bean and list, manage pagination parameters.

- e. EmailMessage: Email Message contain email message.
- f. EmailBuilder: EmailBuilder class that build Application Email Messages.
- g. EmailUtility: Email Utility provide Email Services.
- h. PropertyReader: Read the property values from application properties file using Resource Bundle.
- i. JDBCDataSource: It is a DATA CONNECTION POOL.

Q8: DCP (Data Connection Pool)

A8: It Provide connection reusability and limit of maximum connection.

- a. Add c3p0 (0.9.1.2) dependency
- b. JDBC Datasource class ko singleton bnai ComboPoolDataSource ka object banaya (cpds)
- c. cpds = null kiya
- d. cpds me sare parameter ko set kiya
- e. And connection provide kiya (return getInstance().cpds.getConnection();)

System.properties pr parameter live hai:-

url = jdbc:mysql://localhost:3306/project4

driver = com.mysql.cj.jdbc.Driver

username = root

password = root

acquiereIncrement = 10

initialPoolSize = 10

maxPoolSize = 100

minPoolSize = 10

timeout = 10

Q9: What is Advantage DCP?

A9:

- a. High performance. b. It controls number of connection create.
- c. It allow application to handle more concurrent user.

Q10: What is Non Business Primary Key?

A10: It dose not contain business information and it related with database.

Q11: What is Business Primary Key?

A11: It contain business information and it is related with database communication.

Q12: What is customize exception?

A12: Custom exception is created by developer. We have created own exception classes by extends Exception class.

- Q13: What is transaction handling?
- A13: Transaction is a atomic unit to be commit or rolled-back in a single attempt.

Q14: What is servlet lifecycle?
A14:
a. init()
b. service() c. destroy()
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Q15: Full Form? A15:
URL -> Unified Resource Locator
URI -> Unified Resource Identifier
XML -> Extensible Markup Language
SMTP -> Simple Mail Transfer Protocol
POP -> Post Office Protocol IMAP -> Internet Mail Access Protocol
HTTP -> Hyper Text Transfer Protocol
WAR -> Web Archive
DDL -> Data Definition Language
DML -> Data Manipulation Language
DCL -> Data Control Language
Q16: What is JSP lifecycle? A16: a. jspinit() b. jspservice() c. jspdestroy()
Q17: What is BaseBean? A17: BaseBean is parent class of all beans and it contain generic attribute.
Q18: What is BaseCtl? A18: BaseCtl is parent controller of all controller and it contain generic work flow, generic operation, generic constant.
Q19: Why we create custom exception? A19: To generate self Exception. It can be understand by developer.
Q20: What is Maven?
A20: Maven is powerful build automation tool.
Q21: Types of Validation in the project? A21: There are two types of Validation in the Project:-
a. Sever Side Validation
-Input Validation
-Business Validation
b. Client Side Validation

Q22: How you are performing Business Validation? A22: We have propagate exception on model and we have checked and set on controller and get on view. Q23: How many types of servlet? A23: There are three types of servlet:a. Servlet Interface b. GenericServlet Class c. HttpServlet Class Q24: What is Abstract Factory? A25: It is pattern work around a super factory which create other factories. Q25: How your are sending email? A25: By using some custom classes like:a. EmailMessage b. EmailBuilde c. EmailUtility Q26: What are the classes you have used to sending emails? A26: We have used six classes for email those are used in Email Utility Class which are following:b. Session a. Message c. MimeMessage d. PassportAuthentication f. InternetAddress e. Transport Q27: Why override service method? A27: We create custom ctl in which we Override service method to provide generic operation flow. Q28: How many Dependency in pom.xml? A28: There are six dependency in pom.xml:a. junit (3.8.1) b. MySQL (8.0.29) c. log4j (1.2.17) d. javax.mail (1.4.7) e. c3p0 (0.9.1.2) f. javax.servlet (3.0.1) Q29: Difference between JBoss and Tomcat server? A29: JBoss is an Application Server -> Tomcat is a Web Server JBoss supports distributed transactions like EJB -> Tomcat supports JSP and Servlets JBoss is heavyweight compared to Tomcat -> Tomcat is lightweight JBoss works slower compared to Tomcat -> Tomcat is faster in execution Q30: Difference between static polymorphism and dynamic polymorphism? A30: Static Polymorphism is done by overloading and Dynamic Polymorphism is done method overriding.

Q31: Difference between string buffer and string builder?

A31: StringBuffer-> Synchronized and thread-safe StringBuilder-> Not synchronized and not thread-safe StringBuffer-> Suitable for multi-user environments StringBuilder->Suitable for single-user environments Q32: Tools you used in your application? A32: a. Eclipse Mars 1 b. SQLYog 9.0 c. ArgoUML d. ER Win Q33: What are the differences between Statement and PreparedStatement? A33: PrepaedStatemen preserved passed queries and reused the same queries with deference parameters where as Statement queries are passed every database call. O34: What are the MVC Guidelines? A34: a. One screen will have one view. b. One view will have one controller. c. User cannot directly access a view; it is always accessed via a controller. d. View always submits requests to its own controller. e. For navigation to the next view, the request is forwarded to the controller of the next view. Q35: What is the difference between DoGet and DoPost? A35: DoGet -> Performs view logic DoPost -> Performs submit logic DoGet -> Can be cached DoPost -> Cannot be cached DoGet -> Can be bookmarked DoPost -> Cannot be bookmarked DoGet -> Can send only text and numbers DoPost -> Can send binary data DoGet -> Can be saved in browser history (part of URL) DoPost -> Cannot be not saved in browser history Q36: View kisko dekh kar banaya hai? A36: Wireframe diagram ko dekh kar.

Q38: Model kisko dekh kar banaya hai?

Q37: Controller kisko dekh kar banaya hai? A37: Controller view ko dekh kar banaya hai.

A38: Model database ko dekh kar banaya hai.

Q39: Database kisko dekh kar banaya hai?
A39: Database ER diagram ko dekh kar banaya hai.

Q40: Bean kisko dekh kar banaya hai?
A40: Bean UML diagram ko dekh kar banaya hai.

Q41: How to map Javadoc?
A41: /doc/index.html

Q42: What is a filter?
A42: A filter performs pre-processing and post-processing on client requests and responses.

Q43: What is DML, DDL, and DCL?
A43:
DML (Data Manipulation Language): Used for CRUD operations.

DDL (Data Definition Language): Used to create, alter, and drop tables.

DCL (Data Control Language): Used to perform commit and rollback operations.