DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 19CS2107 ENTERPRISE PROGRAMMING WORKBOOK

HIBERNATE-SPRING INTEGRATION #12

Date of the Session://	Time of the Session:to
Prerequisite: Basic knowledge on hibernate and spring in	ntegration

Pre-Lab Task:

1. Explain the concept of Integration of Spring-Hibernate Framework.

Answer: In hibernate framework, we provide au the database number of hibernate of xml file. But it we are going to integrate the hibernate application with spring, we don't need to create the hibernate of your file we can need to create the hibernate of goxml file we can provide au the information in the application Content. Xml.

2. List out few advantages of Integration.

Answer :- Services Layer

The most important bentit is the Spring framework

The most important bentit is the Spring framework

Hself. Because of Spring integration, application can

leverage all the featheres of spring frame rook. For

example PoJo style Serve interfale, Ioc, Aspects,

Remaingete.

Hibernate Template: account numb Spring provides template for managing sessions, transcation across the application without the hibernate template, applications need to manage those on their own Hibernate Das Supportso-aunu Spring provide class Called Hilbernate Dao Support. DAD implementation class implement this class to get all the Convenience methods that Hibernate Templete provides. If applications are not wing thibernate Templete, then it's Josel to take advantaged Hilbernate Dao Support. DAO Exception Translation: Hibernate 3-throws Runtime exceptions unlike Checked exaptions thrown in previous releases. Spring can translate those exceptions into spring DAO

Exceptions and map exception hierarty. But you have to use one of the following to get this I. Usc Hibernate Templete 2. @ Reposio tory

3. List out Methods of Hibernate-template class and write description about it.

Sno 1	Method Description void Persist Persistes the given object (obsertential)
8	Serializable Save Persiste the given Object and returns id
3.	void Saveor persists or updates the given deject. update (it i'd i's found it updates the lobject entity) record otherwise Saveruprel
4	voi al update Opdate the given Object (object enfits)
5.	void du lete Deldes the given Objection the Cobject entity) basis id.
6.	Object getClass Roturns the presistent objet entity Class, Sonalizhe id) on basis of green id.
7.	Object coad (Class Returns persistent Object entity class, Seriliable ia) on the basis of governid.
8.	hist loae/All(class Deturns authoristent enting class) Objects.

<u>In Lab Task:</u>

1. The NavodayaJohar school is wanting to direct a get-together of their 2014-2015 batch students. To design this occasion and oversee, principal appointed a student from a similar batch. To do this the student needed to make hibernate application with spring application. He initially made a table in database to store the subtleties of his companions who are going to the gathering. He made the table with the name Reunion with properties ID No, Name, Contact Number, Amount paid, and Status. ID.NO being the primary key has the most extreme size of 4 digits and Status speaks to how much sum has been paid i.e; completely paid, or partially paid, or not paid. Note that the sum should be paid to go to the gathering is 2000 rupees. Now he needs to make a java project with springs and hibernate integration. Help him in Creating three unique classes for inserting subtleties in database. First make a class for inserting the details of the students who are going to the get-together gathering. Presently make another class for retrieving the amount paid by the students.

Po Jo class

Parkage mypackage;

Public class Reunions

Private int sid;

private String Sname; private double contact;

Prievate ent amounts
prievate String Status;

Public int getsides

return sid }

12 ublic Strings grate void setsid (int sid) {

this.sid = sid; 7

Prexblic String get Sname et &

return Sname; 6

Public void set SName US

this sname = sname;

Public double getContant () of return Contact; } Public void Set Contact (clouble contact) ? + his. Contact = contact; public int get Amount() 5 sctum amounts Public void setAmount (intamount) & this amount = annount; Public String get Status DE setum status; 4 Public vard set Status (String Status) & this status = status; Mapping file. Z? Xorl version = "1.0" encoding = "Off-8"?> 11 Doctype hibernate-mapping public "-1/ Hibernate / Hilbernate Mapping DID 30/EN http://hibernate.Source forge, not/hibernate-mapping-3.0 dtd">

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   (property name = amount"> 2/property>
   L property
    [property name = "steetus" [/property)
  L/Class >
  I (hibernade - mapping)
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                               10cal bost : 1552; xe">
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ontant; Sloing Status: Boulean Continoues d'une; whole (continous) f Reunion e=new Reunion(), System.outoposotla L" Enterth ed number."); id = Sconeat Intl); System. Out. priortle ("Enter the Contact number?"); Phone = Sconent Double () 6 System.out. prontin l'Enter the amount tobe paid "); System. out . Pointlh ("Enter - In status"); Status = Sconentes; e. setId (id ; e. Set Name (name)? C. set Someant Phones E. set Amount (amt); C. Set Status (Status); clao. Save De union (e); System. But priestin l'Do you want to insert (49/16)') Strong proceed = sconent(); et (proce de equals ((' xe")))s continous = true

else s Controdues = table Retiève . avan -Package my Package? import jana. util. #9 in port org. Spreagframe work. beans. factory. Been factory. Emport org. Spring frame work o bears of actory. Xm1. # import org. Sprøgfame work. Core. 900 40 class Refores Public Public static void main (String [] orgs) } Resource rinew Class porth Resourcel'application Godest. Xml (Beantactory factory = new Xml Bean factory (1); (Reamon e=new Reuniounc)o, System out. proofin l'Enterth od of the steedent whose aldais are required), int vid= sc.nentIntelo Reunion. h = dao get By Idirid) System. out. println1" the amount paid by student is "); System out. prentin l'Amount Duid "thoget Amount())"

Post Lab Task:

Now to the extension to the last question create a class file in the same java project for undating the database If the student want to pay the amount then undate the control undating the database If the student want to pay the amount then undate the control undates Now to the database If the student want to pay the amount then update the amount in data updating the total amount he paid till then and if he had paid the total updating the data amount he paid till then and if he had paid the total amount the change base and print the total amount he show the amount that need to be a sixty to fully paid. If not then show the amount that need to be a sixty to fully paid. base and plant to fully paid. If not then show the amount that need to be paid by him. Also create a the status to fully paid the details of students who cancelled their also is the status to land the details of students who cancelled their plan of going go get-together class file for some issues. as a result of some issues.

Writing space for the Problem:(For Student's use only)

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import org. Spring frame work beans, factory . **

import org. Spring frame work core . io, Class path Desource;

import org. Spring frame work core . io. Resume y

import org. Spring frame work core . io. Resume y Public class Opdated Rublic Static vord maiol Stringer orgs) (Re source r = new Class Poth Resource l'application Contens Bean Factory - factory = nece Xm1 Bean Factores; Reuniour Dao dao = (Reunion Dao) factory. get Rean (Fd")0 Scanner Sc= new Scanner (System: in); Boolean Continues - tomes,

while (continues) & Reunioun e = new Reanions, System. out . Protte ("Any upolates required (Yes/No)") Strong Change : Sconeste) it (change equals ("Yes")) & System. out. Prontin l'Enter i'd orumber et student "); not wed = Sconeat Intelly Reunion h = das getById (uid) int wst = h. get Amount(); Sptem-out Prentin L'the amount paid by the student is : + tot) System-out. Proortin ("Do you want to Pay (Ya/No)"); String Pay = Sc. nently it (pay. equals (" xg")) C System out . Proofin 1" Enter - In amount paid mow ")0 int now: Sc. nent Int(); cost = cost + now; h. Set Amount (cost); dao. up dote Preunito N; ist Cost == 1000) S. Status ("taky paid") 3 clas update Reunion (W);

else & System.oct. Proofin ("the amount Studenthan to
Pay" + (2000 +) } y

System.out- Pronth ("upclate ore about") by Contonues = face y by y y

Delete Java

Package myPackage; import java utol. *; import Org. Springframe beans. Lactor . *; import org. Springframe works Core. io. xo

Public class Delete &

Public Static void main LString() angs)

Resource = now class PathResource

while (Continues) {

l'application. 201)

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a la Douglas l"the cletai's of Student
System-out. prentin l'Do you want tolerete Some
more Yes (NO)
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