

Repository.java

```
1 package project;
2
3 import java.util.ArrayList;
4
5 /* This class simulates the functionality of the Persistence Storage
6  * It is an In-Memory collection of Specific entities */
7 public class Repository {
8
9     /* Define the data structure to store the respective objects */
10    ArrayList<Participant> participantList=new ArrayList<Participant>();
11    ArrayList<Interests> interestList=new ArrayList<Interests>();
12    ArrayList<Relationships> relationshipsList=new ArrayList<Relationships>();
13
14    public Repository(){
15
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18
19
20    /* This method add the given Participant object to the Participant List
21     * As Participant is the Aggregate Root to the Interests and Relationships
22     objects,
23     * Interests and Relationships objects will be added to the respective List as
24     well */
25    public void addParticipant(Participant p){
26
27
28
29    /*This method add the newly created Participant Object into the IN-Memory
30    Collection
31    * and it is correctly extracted from the Questionnaire object*/
32    public void add(Object object){
33
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46    /*This method remove existing Participant Object from the IN-Memory Collection
47    */
48    public void remove(Participant participant){
49
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55
56    /* Retrieval of all Participants objects from the In-Memory Collection*/
57    public ArrayList<Participant> getParticipants(){
58
59
60
61
62    /* Retrieval of single Participant object by using it's ID */
63    public Participant getParticipant(int id){
64
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68
69
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71
72    /* Clear the Collection */
73    public void clear(){
74
75
76
77
78    /* Created Participant objects for simulating the retrieval of data from
79    Persistence storage
80    * In-Memory data created for testing */
81    private void createParticipants(){
82
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105    /* Created Interests objects for simulating the retrieval of data from
106    Persistence storage
107    * In-Memory data created for testing */
108    private void createInterests(){
109
110
111
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116
117    /* Created Relationships objects for simulating the retrieval of data from
118    Persistence storage
119    * In-Memory data created for testing */
120    private void createRelationships(){
```

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146
147  /* Retrieval of single Relationships object by using it's ID */
148  private Relationships getRelationship(int id){
156
157  /* Retrieval of single Interests object by using it's ID */
158  private Interests getInterests(int id){
166
167  /* This method retrieve the Participant objects in two dimensional array
format*/
168  public Object[][] getParticipantsArray(){
187
188  /* This method return the Participant attributes name as one dimensional array
format*/
189  public String[] getParticipantsAttributes(){
192
193 }
194
```