

QuestionnaireTest.java

```

1 package Test;
2
3 import static org.junit.Assert.*;
13
14 public class QuestionnaireTest {
15
16     @Test
17     public void addNewQuestionnaireTest() {
18
19         Questionnaire q=new Questionnaire();
20         Participant p=q.getParticipant();
21         Relationships r=p.getRelationship();
22         Interests i=p.getInterest();
23
24         /* For testing, only three attributes of Participant,Relationship,Interest
used */
25         /* set Participant entity related attributes */
26         q.setAge(30);
27         q.setGender("Male");
28         q.setEthnicity("British");
29
30         /* set Relationships entity related attributes */
31         q.setFirstRelationshipAge(25);
32         q.setStatus("Single");
33         q.setChildren(2);
34
35         /* set Interests entity related attributes */
36         q.setAchievement("Nothing");
37         q.setAlcoholUnits(10);
38         q.setBooks("Thriller");
39
40         /* For Participant entity */
41         assertEquals(p.getAge(), 30);
42         assertEquals(p.getGender(), "Male");
43         assertEquals(p.getEthnicity(), "British");
44
45         /* For Relationships entity */
46         assertEquals(r.getFirstRelationshipAge(), 25);
47         assertEquals(r.getStatus(), "Single");
48         assertEquals(r.getChildren(), 2);
49
50         /* For Interests entity */
51         assertEquals(i.getAchievement(),"Nothing");
52         assertEquals(i.getAlcoholUnits(),10);
53         assertEquals(i.getBooks(),"Thriller");
54     }
55
56     @Test
57     public void AddNewQuestionnaireIDTest(){
58         Questionnaire q=new Questionnaire();
59         Participant p=q.getParticipant();
60         Relationships r=q.getRelationship();
61         Interests i=q.getInterest();
62
63         /* For testing, only three attributes of Participant,Relationship,Interest

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QuestionnaireTest.java

```
used */
64     /* set Participant entity related attributes */
65     q.setAge(30);
66     q.setGender("Male");
67     q.setEthnicity("British");
68
69     /* set Relationships entity related attributes */
70     q.setFirstRelationshipAge(25);
71     q.setStatus("Single");
72     q.setChildren(2);
73
74     /* set Interests entity related attributes */
75     q.setAchievement("Nothing");
76     q.setAlcoholUnits(10);
77     q.setBooks("Thriller");
78
79     /*This will create 15 Records of Questionnaire in Memory
80     * that is last record's ID=15*/
81
82     Repository repository=new Repository();
83
84     /* It is expected , adding New record must have ID=16 */
85     repository.add(q);
86
87     assertEquals(p.getId(),16);
88 }
89
90 @Test
91 public void AddNewQuestionnaireRetrievalTest(){
92     Questionnaire q=new Questionnaire();
93
94     /* For testing, only three attributes of Participant,Relationship,Interest
used */
95     /* set Participant entity related attributes */
96     q.setAge(30);
97     q.setGender("Male");
98     q.setEthnicity("British");
99
100    /* set Relationships entity related attributes */
101    q.setFirstRelationshipAge(25);
102    q.setStatus("Single");
103    q.setChildren(2);
104
105    /* set Interests entity related attributes */
106    q.setAchievement("Nothing");
107    q.setAlcoholUnits(10);
108    q.setBooks("Thriller");
109
110    /*This will create 15 Records of Questionnaire in Memory
111    * that is last record's ID=15*/
112    Repository repository=new Repository();
113
114    /* It is expected , adding New record must have ID=16 */
115    repository.add(q);
116
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QueetionnaireTest.java

```
117     /* Retrieve the Participant from Repository using its ID */
118     Participant p=repository.getParticipant(16);
119
120     /* Participant Have references to Relationships,Interests Objects
121      * access these use two objects using Participant object*/
122     Relationships r=p.getRelationship();
123     Interests i=p.getInterest();
124
125     /* For Participant entity */
126     assertEquals(p.getAge(), 30);
127     assertEquals(p.getGender(), "Male");
128     assertEquals(p.getEthnicity(), "British");
129
130     /* For Relationships entity */
131     assertEquals(r.getFirstRelationshipAge(), 25);
132     assertEquals(r.getStatus(), "Single");
133     assertEquals(r.getChildren(), 2);
134
135     /* For Interests entity */
136     assertEquals(i.getAchievement(),"Nothing");
137     assertEquals(i.getAlcoholUnits(),10);
138     assertEquals(i.getBooks(),"Thriller");
139
140 }
141
142 }
143
```