test.txt

example_code/Interaction.java

```
1
  package socialmedia;
2
3
      * An abstract class for Post, Comments and Endorsements to extend.
     * Allows the storage of each of them inside a single ArrayList
6
      * Also contains a static integer for finding the last created interaction to
7
8
      * save computation.
  9
      * Used to prevent re-use of deleted account comments.
  10 |
      * @author Jack Bundy
11 |
12 | * @version 1.0
13 l
14 | public abstract class Interaction implements java.io.Serializable {
         // Used to be an interface but lastCreatedInteractionId was needed
15 l
         // to NOT be final.
16
17 l
         // The lack of database is so great /s
18
19
         private Integer id;
20 l
         private Integer ownerId;
21
          * static integer for the last created interaction ID.
22 |
          \mbox{\ensuremath{\star}} For finding out what the next ID should be in timeline
23 l
24
25 |
         public static Integer lastCreatedInteractionId = 0;
26 |
27
28 |
          * Constructor for Interaction
29 |
          * @param ownerId
30 I
31 l
         public Interaction(Integer ownerId) {
32 l
33 |
            this.id = ++lastCreatedInteractionId;
34 |
35 |
             this.ownerId = ownerId;
36 |
         }
37 |
38 l
39 |
          * Get interaction ID
40 l
          * @return Interaction ID
41
          * /
42
          public Integer getId() {
43
            return id;
44
45
          }
46 |
47 |
          * Get interaction owner ID
48
49 |
50 |
          * @return Interaction Owner ID
```

```
51 |
          * /
52 |
         public Integer getOwnerId() {
53 |
            return ownerId;
54 |
55 |
56
          * Sets a new owner ID
57 l
58 |
          * @param ownerId
59 |
          * /
60 l
         public void setOwnerId(Integer ownerId) {
61
            this.ownerId = ownerId;
62
63 |
64 | }
65 |
```

example_code/Post.java

```
1
      package socialmedia;
2
3
      import java.util.ArrayList;
4
5
   * A class for posts. It store its message, id, comments, and endorsements.
6
7
       * Comments extend this class.
8
       * @author Jack Bundy
   * @version 1.0
10
       * /
11
12 | public class Post extends Interaction {
13
       private String message;
14
          private ArrayList<Comment> comments = new ArrayList<Comment>();
15
          private ArrayList<Endorsement> endorsements = new ArrayList<Endorsement>();
16
          /**
17
          * Post constructor
18
19
           * @param ownerId
20
21
           * @param message
22
           * @throws InvalidPostException
23
           * /
24 |
         public Post(String message, Integer ownerId) throws InvalidPostException {
25
            super(ownerId);
26
27
             if (message.isEmpty() || message.length() > 100) {
                 throw new InvalidPostException();
28
              } else {
29
30
                  this.message = message;
31 |
              }
          }
32
33
34
35
           * Get list of comment IDs
36
37
           * @return arraylist of comment IDs
38
39
          public ArrayList<Comment> getComments() {
             return comments;
40
41
          }
42
43
          * Set the comment IDs
44
45
           * @param comments
46
           */
47
48
          public void setComments(ArrayList<Comment> comments) {
49
             this.comments = comments;
50
```

```
51
52
53
            * Add a new comment to the end of the list
54
55
            * @param comment_id
56
57
           public void addComment(Comment comment) {
               comments.add(comment);
58
59
           }
60
61
            * Get list of endorsement
62
63
            \ensuremath{^{\star}} @return array list of endorsement IDs
64
65
66
           public ArrayList<Endorsement> getEndorsements() {
67
              return endorsements;
68
69
           /**
70
            * Set the endorsement IDs
71
72
73
            * @param endorsements
74
75
           public void setEndorsements(ArrayList<Endorsement> endorsements) {
76
               this.endorsements = endorsements;
77
           }
78
79
80
            * Add new id to endorsement ids
81
            * @param endorsement
82
            * /
83
84
           public void addEndorsement(Endorsement endorsement) {
               endorsements.add(endorsement);
85
           }
86
87
88
            * Sets a new post message
89
90
            * @param message
91
92
            * @throws InvalidPostException
93
94
           public void setMessage(String message) throws InvalidPostException {
95
              if (message.isEmpty() | | message.length() > 100) {
96
                   throw new InvalidPostException();
97
               } else {
98
                   this.message = message;
99
100 |
           }
101 |
102
103 |
            * Gets the Post message
104
            * @return
105 L
106 |
            * /
107
           public String getMessage() {
108
               return message;
109
           }
110 | }
```

```
example_code/Comment.java
```

```
1  | package socialmedia;
2  |
3  | // And this is a super long comment to test formatting
4  | // 0123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525
  | 3545556575859606162636465666768697071727374757677787980
```

```
5 | /**
\ensuremath{\text{6}} \ensuremath{\text{|}} * A class for comments. Stores comments and endorsement IDs that are made
7 \mid * relating to it by inheriting them from Post.
8 | *
9 | * @author Jack Bundy
10 | * @version 1.0
     */
11 |
12 | public class Comment extends Post {
13 | Integer commentedPost;
14 |
       /**
15 |
        * Constructor for Comment.
16 |
17 |
         * @param message
18 |
         * @param ownerId
19 |
20
         * @param commentedPost
         * @throws InvalidPostException
21 |
         * @throws PostIDNotRecognisedException
22
         * /
23
24 | public Comment(String message, Integer ownerId, Integer commentedPost)
25 |
               throws InvalidPostException, PostIDNotRecognisedException {
           super(message, ownerId);
26
27
            // Comment is almost functionally the same as post
28 |
            this.commentedPost = commentedPost;
29 |
        }
30 |
31 |
        public Integer getCommentedPost() {
32 |
            return commentedPost;
33 |
34 | }
```