

[View Javadoc](#)

```

1  package model.element.motionless;
2
3  import java.awt.Image;
4  import java.io.IOException;
5
6  import javax.imageio.ImageIO;
7
8  import contract.ElementType;
9  import contract.IElement;
10 import contract.ILevelMap;
11 import model.element.LevelMap;
12
13 /**
14  * The Class Diamond.
15  *
16  * @author Group 5
17  */
18 public class UnbreakableBlock implements IElement {
19
20     /** The score */
21     private int score = 0;
22
23     /** The exist boolean */
24     private boolean exist = true;
25
26     /** The elementType */
27     private ElementType elementType = ElementType.UNBREAKABLEBLOCK;
28
29     /** The x */
30     private int x;
31
32     /** The y */
33     private int y;
34
35     /** The levelmap */
36     private ILevelMap levelmap;
37
38     /** The image */
39     private static Image image;
40
41     /** The imageName */
42     private String imageName = "bedrock";
43
44     /**
45      * constructor to build and place UnbreakableBlock
46      *
47      * @param x
48      *         The x.
49      * @param y
50      *         The y.
51      * @param levelMap
52      *         The levelMap
53      */
54     public UnbreakableBlock(final int x, final int y, ILevelMap levelMap) {
55         this.setX(x);
56         this.setY(y);
57         this.setImageName(imageName);
58         this.loadImage();
59         this.setLevelmap(levelMap);
60     }
61
62     /**
63      * Get x position of UnbreakableBlock
64      *
65      * @return x
66      */
67     @Override
68     public int getX() {
69         return this.x;
70     }
71
72     /**
73      * Set x position of UnbreakableBlock
74      *
75      * @param x
76      *         The x.
77      */
78     @Override
79     public void setX(int x) {
80         this.x = x;
81     }
82
83     /**
84      * Get y position of UnbreakableBlock
85      *
86      */

```

```

92      * @return y
93      *
94      */
95      @Override
96      public int getY() {
97
98          return this.y;
99      }
100
101      /**
102       * Set y position of UnbreakableBlock
103       *
104       * @param y
105       *         The y.
106       *
107       */
108      @Override
109      public void setY(int y) {
110
111          this.y = y;
112      }
113
114      /**
115       * Move up the player when up key are pressed
116       *
117       */
118      @Override
119      public void moveUp() {
120
121          this.setY(this.getY() - 1);
122
123          this.levelmap.setElement(this.getX(), this.getY(), this);
124          this.levelmap.removeElement(getX(), getY()+1);
125
126      }
127
128      /**
129       * Move down the player when down key are pressed
130       *
131       */
132      @Override
133      public void moveDown() {
134          this.setY(this.getY() + 1);
135
136          this.levelmap.setElement(this.getX(), this.getY(), this);
137          this.levelmap.removeElement(getX(), getY()-1);
138      }
139
140      /**
141       * Move left the player when left key are pressed
142       *
143       */
144      @Override
145      public void moveLeft() {
146          this.setX(this.getX() - 1);
147
148          this.levelmap.setElement(this.getX(), this.getY(), this);
149          this.levelmap.removeElement(getX()+1, getY());
150      }
151
152      /**
153       * Move right the player when right key are pressed
154       *
155       */
156      @Override
157      public void moveRight() {
158          this.setX(this.getX() + 1);
159
160          this.levelmap.setElement(this.getX(), this.getY(), this);
161          this.levelmap.removeElement(getX()-1, getY());
162      }
163
164      /**
165       * do nothing the player when player don't move
166       *
167       */
168      @Override
169      public void doNothing() {
170          this.setY(this.getY());
171
172          this.levelmap.setElement(this.getX(), this.getY(), this);
173      }
174
175      /**
176       * Get image of UnbreakableBlock
177       *
178       * @return image
179       *
180       */
181      @Override
182      public Image getImage() {
183
184          return UnbreakableBlock.image;

```

```

185     }
186
187     /**
188      * Set image of UnbreakableBlock
189      *
190      * @param image
191      *             The image.
192      */
193
194     @Override
195     public void setImage(Image image) {
196
197         UnbreakableBlock.image = image;
198     }
199
200     /**
201      * Load image of UnbreakableBlock
202      *
203      */
204
205     @Override
206     public void loadImage() {
207
208         Image img = null;
209         try {
210             img = ImageIO.read(getClass().getClassLoader().getResourceAsStream("images/" + this.getImageName() + ".png"));
211         } catch (IOException e) {
212             e.printStackTrace();
213         }
214         this.setImage(img);
215     }
216
217     /**
218      * Get image name of UnbreakableBlock
219      *
220      * @return imgaName
221      *
222      */
223
224     @Override
225     public String getImageName() {
226
227         return this.imageName;
228     }
229
230     /**
231      * Set image name of UnbreakableBlock
232      *
233      * @param imageName
234      *             The image name.
235      */
236
237     @Override
238     public void setImageName(String imageName) {
239
240         this.imageName = imageName;
241     }
242
243     /**
244      * check existing of UnbreakableBlock
245      *
246      * @return exist
247      *
248      */
249
250     @Override
251     public boolean isExist() {
252
253         return this.exist;
254     }
255
256     /**
257      * set exist verification of UnbreakableBlock
258      *
259      * @param exist
260      *             The exist state.
261      */
262
263     @Override
264     public void setExist(boolean exist) {
265
266         this.exist = exist;
267     }
268
269     /**
270      * Get Level
271      *
272      * @return Level map
273      *
274      */
275
276     public ILevelMap getLevelmap() {
277         return levelmap;
278     }
279
280     /**

```

```
278      * Set Level
279      *
280      * @param Levelmap
281      *           The LevelMap.
282      *
283      */
284      public void setLevelmap(ILevelMap levelmap) {
285          this.levelmap = levelmap;
286      }
287
288      /**
289       * Get score of collected diamond
290       *
291       * @return score
292       *
293       */
294      @Override
295      public int getScore() {
296          return score;
297      }
298
299      /**
300       * Set score of collected diamond
301       *
302       * @param score
303       *           The score.
304       *
305       */
306      @Override
307      public void setScore(int score) {
308          this.score = score;
309      }
310
311      /**
312       * Get element type of UnbreakableBlock
313       *
314       * @return element type
315       *
316       */
317      @Override
318      public ElementType getElementType() {
319          return elementType;
320      }
321
322      /**
323       * Set element type of UnbreakableBlock
324       *
325       * @param elementType
326       *           The elementType.
327       *
328       */
329      @Override
330      public void setElementType(ElementType elementType) {
331          this.elementType = elementType;
332      }
333  }
334 }
```

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