View Javadoc

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package model.element.mobile;
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             import java.awt.Image;
             import java.io.IOException;
             import javax.imageio.ImageIO;
              import contract.ElementType;
              import contract.IElement;
              import contract.ILevelMap
              import model.element.LevelMap;
                * The Class Diamond.
                 * @author Group 5
             public class Rock implements IElement {
                             /** The score */
                          private int score = 0;
                           /** The exist boolean */
                          private boolean exist = true;
                           /** The elementType */
                          private ElementType elementType = ElementType.ROCK;
                           /** The x */
                          private int x;
                           /** The y */
                          private int y;
                           /** The Levelmap */
                          private <u>ILevelMap</u> levelmap;
                           /** The image */
                          private static Image image;
                           /** The imageName */
                          private String imageName = "Rocher";
                            * constructor to build and place Rock
                              * @param x
                                                                             The x.
                             * @param y
                                                                            The y.
                                   @param levelMap
                                                                             The LevelMap.
                          public Rock(final int x, final int y, LevelMap levelMap) {
                                                     this.setX(x);
                                                    this.setY(y);
                                                    this.setImageName(imageName);
                                                   this.loadImage();
                                                    this.setLevelmap(levelMap);
                          }
                             * Get x position of Rock
                              * @return x
                           @Override
                          public int getX() {
                                                   return this.x;
                             * Set x position of Rock
                              * @param x
                                                                             The x.
                           @Override
                          public void setX(int x) {
                                                   this.x = x;
                            * Get y position of Rock
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            * @return y
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           @Override
           public int getY() {
                     return this.y;
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           * Set y position of Rock
            * @param y
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                               The y.
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           @Override
           public void setY(int y) {
                     this.y = y;
            * Move up the player when up key are pressed
           @Override
          public void moveUp() {
                     this.setY(this.getY() - 1);
                     this.levelmap.setElement(this.getX(), this.getY(), this);
                     this.levelmap.removeElement(getX(), getY()+1);
           }
            * Move down the player when down key are pressed
           @Override
          public void moveDown() {
                     this.setY(this.getY() + 1);
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                     this.levelmap.setElement(this.getX(), this.getY(), this);
                     this.levelmap.removeElement(getX(), getY()-1);
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            * Move left the player when left key are pressed
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           public void moveLeft() {
                     this.setX(this.getX() - 1);
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                     this.levelmap.setElement(this.getX(), this.getY(), this);
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                     this.levelmap.removeElement(getX()+1, getY());
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            * Move right the player when right key are pressed
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           @Override
           public void moveRight() {
                     this.setX(this.getX() + 1);
                     this.levelmap.setElement(this.getX(), this.getY(), this);
this.levelmap.removeElement(getX()-1, getY());
          }
            * do nothing the player when player don't move
           @Override
           public void doNothing() {
                     this.setY(this.getY());
                     this.levelmap.setElement(this.getX(), this.getY(), this);
          }
            * Get image of Rock
            * @return image
           @Override
           public Image getImage() {
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                     return Rock.image;
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           }
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          * Set image of Rock
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          * @param image
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                                     The image.
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         @Override
         public void setImage(Image image) {
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                  Rock.image = image;
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          * Load image of Rock
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@Override
         public void loadImage() {
                  Image img = null;
                  try {
                            img = ImageIO.read(getClass().getClassLoader().getResourceAsStream("images/" + this.getImageName() + ".png"));
                  catch(IOException e) {
                            e.printStackTrace();
                  this.setImage(img);
          * Get image name of Rock
          * @return imgaName
         @Override
         public String getImageName() {
                  return this.imageName;
          * Set image name of Rock
          * @param imageName
                                               The image name.
         @Override
         public void setImageName(String imageName) {
                  this.imageName = imageName;
          * check existing of Rock
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          * @return exist
         @Override
         public boolean isExist() {
                  return this.exist;
         }
          * set exist verification of Rock
          * @param exist
                                     The exist state.
         @Override
         public void setExist(boolean exist) {
                  this.exist = exist;
          * Get level
          * @return level map
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         public ILevelMap getLevelmap() {
                  return levelmap;
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          * Set Level
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          * @param levelmap
                                     The LevelMap.
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public void setLevelmap(ILevelMap levelmap) {
                   this.levelmap = levelmap;
          * Get score of collected diamond
*
          * @return score
         @Override
         public int getScore() {
                  return score;
          * Set score of collected diamond
          * @param score
                                     The score.
         @Override
         public void setScore(int score) {
                   this.score = score;
          * Get element type of Rock
          * @return element type
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330 }
         @Override
         public ElementType getElementType() {
                  return elementType;
          * Set element type of Rock
          * @param elementType
                                               The elementType.
         public void setElementType(ElementType elementType) {
                   this.elementType = elementType;
```

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