**Added the inv.renderEnergies method to the Inventory if statement in the GameState class.**

**package** sonar.gamestates;

**import** java.awt.Graphics;

**import** java.awt.image.BufferedImage;

**import** java.io.IOException;

**import** javax.imageio.ImageIO;

**import** sonar.gamestates.states.Inventory;

**import** sonar.gamestates.states.levels.stages.entities.SpriteManager;

**import** sonar.gamestates.states.levels.stages.entities.animations.tiles.Tile;

**import** sonar.gamestates.states.levels.stages.entities.animations.tiles.TileManager;

**public** **abstract** **class** GameState

{

//The base class Template for all the gamestates in the game.

**private** StateBuilder buildState;

**private** GSM gsm;

**private** Keyboard key;

**private** SpriteManager smanage;

**private** TileManager tmanage;

**private** **int**[] tiles;

**private** **int** width, height;

**private** String identity;

**protected** GameState(StateBuilder buildState, String path, String identity, GSM gsm)

{

**this**.buildState = buildState;

**this**.gsm = gsm;

**this**.identity = identity;

**if**(buildState.stateType().equals("Single"))

{

key = **new** Keyboard(gsm);

smanage = **new** SpriteManager(identity);

tmanage = **new** TileManager(smanage);

}

**if**(!identity.equals("Starter")) createGameState(path);

}

**private** **void** createGameState(String path)

{

**try**

{

BufferedImage image = ImageIO.*read*(GameState.**class**.getResource(path));

width = image.getWidth();

height = image.getHeight();

tiles = **new** **int**[width \* height];

image.getRGB(0, 0, width, height, tiles, 0, width);

}

**catch** (IOException e){e.printStackTrace();}

}

**protected** **void** update()

{

}

**protected** **void** render(**int** xScroll, **int** yScroll, Screen screen, Graphics g)

{

screen.setOffset(xScroll, yScroll);

drawTiles(xScroll, yScroll, screen);

drawWeapons(screen);

drawEnergies(screen);

}

**private** **void** drawEnergies(Screen screen)

{

**if**(identity.equals("Inventory"))

{

Inventory inv = (Inventory) gsm.getCurrentState();

inv.renderEnergies(screen);

}

}

**private** **void** drawWeapons(Screen screen)

{

**if**(identity.equals("Inventory"))

{

Inventory inv = (Inventory) gsm.getCurrentState();

inv.renderWeapons(screen);

}

}

**public** **void** drawTiles(**int** xScroll, **int** yScroll, Screen screen)

{

**if**(tmanage != **null**)

{

**int** x0 = xScroll / tmanage.voidTile.getWidth(); //divided by 16

**int** x1 = (xScroll + screen.getWidth() + tmanage.voidTile.getWidth()) / tmanage.voidTile.getWidth();

**int** y0 = yScroll / tmanage.voidTile.getHeight();

**int** y1 = (yScroll + screen.getHeight() + tmanage.voidTile.getHeight()) / tmanage.voidTile.getHeight();

drawGameState(x0, x1, y0, y1, screen);

}

}

**private** **void** drawGameState(**int** x0, **int** x1, **int** y0, **int** y1, Screen screen)

{

**for**(**int** y = y0; y < y1; y++)

{

**for**(**int** x = x0; x < x1; x++)

{

getTile(x, y).render(x, y, screen);

}

}

}

Tile getTile(**int** x, **int** y)

{

Tile tile = tmanage.voidTile;

**if**(x < 0 || y < 0 || x >= width || y >= height) **return** tile;

**if**(identity.equals("Menu"));

**if**(identity.equals("Password")) tile = invpassCommons(identity, x, y, tile);

**if**(identity.equals("Inventory")) tile = invpassCommons(identity, x, y, tile);

**if**(identity.equals("Starter"))

{

**if**(tileColour(x, y) == TileManager.***grassColour***) tile = tmanage.grass;

}

**return** tile;

}

**private** Tile invpassCommons(String identity, **int** x, **int** y, Tile tile)

{

**if**(tileColour(x, y) == TileManager.***cornerUpLeftColour***) tile = tmanage.cornerUpLeft;

**if**(tileColour(x, y) == TileManager.***cornerUpRightColour***) tile = tmanage.cornerUpRight;

**if**(tileColour(x, y) == TileManager.***cornerDownLeftColour***) tile = tmanage.cornerDownLeft;

**if**(tileColour(x, y) == TileManager.***cornerDownRightColour***) tile = tmanage.cornerDownRight;

**if**(tileColour(x, y) == TileManager.***lineUpColour***) tile = tmanage.lineUp;

**if**(tileColour(x, y) == TileManager.***lineDownColour***) tile = tmanage.lineDown;

**if**(tileColour(x, y) == TileManager.***lineLeftColour***) tile = tmanage.lineLeft;

**if**(tileColour(x, y) == TileManager.***lineRightColour***) tile = tmanage.lineRight;

**if**(tileColour(x, y) == TileManager.***squareColour***) tile = tmanage.square;

**return** tile;

}

**private** **int** tileColour(**int** x, **int** y){**return** tiles[x + y \* width];}

StateBuilder getBuildState(){**return** buildState;}

**protected** GSM getGsm(){**return** gsm;}

**protected** Keyboard getKey(){**return** key;}

**protected** **void** resetKeyboard(){key = **null**;}

**protected** **void** initKey(){key = **new** Keyboard(gsm);}

**public** SpriteManager getSmanage(){**return** smanage;}

**public** TileManager getTmanage(){**return** tmanage;}

**protected** **void** resetSmanage(){smanage = **null**;}

**protected** **void** setSmanage(SpriteManager manage){smanage = manage;}

**protected** **void** resetTmanage(){tmanage = **null**;}

**protected** **void** setTmanage(TileManager manage){tmanage = manage;}

**protected** String getIdentity(){**return** identity;}

**public** **void** setTiles(**int**[] tiles){**this**.tiles = tiles;}

**public** **void** setWidth(**int** value){width = value;}

**public** **void** setHeight(**int** value){height = value;}

}