**Initialized the local inv DualStateBuilder variable to the value of pastState.getStateBuilder call in the loadState method and also set the local variable inv.setPath method to the inventory file located in the GSM class.**

**package** sonar;

**import** java.awt.Graphics;

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

**import** java.awt.image.DataBufferInt;

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

**import** sonar.gamestates.states.MenuState;

**import** sonar.gamestates.states.PasswordState;

**import** sonar.gamestates.states.StarterStage;

**public** **class** GSM

{

//The GSM class that allows us to switch between different gamestates.

**private** **static** Game *game*;

**private** **static** GameState *currentState*, *pastState*;

**private** **static** BufferedImage *image*;

**private** **static** Screen *screen*;

**private** GSM(){} //Prevents multiple gsms from being created

**final** **static** GSM createGSM(**final** Game cGame)

{

*game* = cGame;

*screen* = Screen.*createScreen*(Game.*getWindowWidth*(), Game.*getWindowHeight*());

*image* = **new** BufferedImage(Screen.*getWidth*(), Screen.*getHeight*(), BufferedImage.***TYPE\_INT\_RGB***);

GSM gsm = **new** GSM();

//GSM is readily available here

GameState.*setGSM*(gsm);

*setState*(StateHolder.***menuState***, gsm);

**return** gsm;

}

**public** **final** **static** **void** switchStates(**final** GameState active, **final** GameState passive)

{

**if**(*pastState* != **null**)

{

*currentState* = active;

*pastState* = passive;

}

}

//A gsm is in charge of loading and setting states

**private** **final** **static** **void** loadState(**final** **int** state, **final** GSM gsm)

{

*currentState* = **null**;

//Menu and build states are the only ones that stay

//Path only exists for single states

//Regardless of state gsm is set

**if**(state == StateHolder.***menuState***) *currentState* = **new** MenuState(**new** SingleStateBuilder("Menu", "/textures/states/Menu.png"));

**if**(state == StateHolder.***passwordState***) *currentState* = **new** PasswordState(**new** SingleStateBuilder("Password", "/textures/states/Password.png"));

**if**(state == StateHolder.***starterStage***) *currentState* = **new** StarterStage(**new** DualStateBuilder("Starter"));

**if**(*currentState*.getBuildState().stateType().equals("Dual"))

{

*pastState* = **new** Inventory(**new** DualStateBuilder("Inventory"), "/textures/states/Inventory.png", "Inventory", **this**);

DualStateBuilder inv = (DualStateBuilder) *pastState*.getBuildState();

inv.setPath("/textures/states/Inventory.png");

}

}

**public** **final** **static** **void** setState(**final** **int** state, **final** GSM gsm)

{

*loadState*(state, gsm);

}

**public** **void** update()

{

*currentState*.update();

}

**public** **void** render(Graphics g)

{

**int** xScroll = 0;

**int** yScroll = 0;

*screen*.clear();

*currentState*.render(xScroll, yScroll, *screen*, g);

**int**[] pixels = ((DataBufferInt) *image*.getRaster().getDataBuffer()).getData();

**for**(**int** i = 0; i < pixels.length; i++)

{

pixels[i] = *screen*.*getPixels*()[i];

}

g.drawImage(*image*, 0, 0, *game*.getWidth(), *game*.getHeight(), **null**);

}

**public** **final** **static** Game getGame(){**return** *game*;}

**public** **final** **static** GameState getCurrentState(){**return** *currentState*;}

**public** **final** **static** GameState getPastState(){**return** *pastState*;}

}