

| Class | VariableName : type | Comment | |
|------------|---|---|--|
| | | | |
| AddBooks | available : boolean | //Describe if the book is available or not | |
| | book : Books | //Represent a book | |
| | centerPanel : JPanel | //Represent the panel | |
| | data : String[] | //Represent the data of the book addition | |
| | informationLabel : JLabel[] | //Represent the label of information | |
| | informationLabelPanel : JPanel | //Represent the information label panel | |
| | informationString : String[] | //Represent the information informed by the user | |
| | informationTextField : JTextField[] | //Represent the information textField | |
| | informationTextFieldPanel : JPanel | //Represent the text field panel to write the information | |
| | insertInformationButton : JButton | //Represent the button to insert the information | |
| | insertInformationButtonPanel : JPanel | //Represent the panel to the insert information button | |
| | lblShelfNo : JLabel | | |
| | northLabel : JLabel | | |
| | northPanel : JPanel | | |
| | OKButton : JButton | // Represent de OK button | |
| | southPanel : JPanel | | |
| | txtShelfNo : JTextField | | |
| | | | |
| AddMembers | centerPanel : JPanel | //Represent the center panel | |
| | data : String[] | //Represent the data of the addition operation | |
| | informaionString : String[] | //Represent the information informed by the user | |
| | informationLabel : JLabel[] | //Represent the label where the user isert the information | |
| | informationLabelPanel : JPanel | //Represent the panel of the label information | |
| | informationPasswordField : JPasswordField[] | //Represent the information Password field | |
| | informationTextField : JTextField[] | //Represent the information text field where the user put the information | |
| | informationTextFieldPanel : JPanel | //Represent the information text field panel | |
| | insertInformationButton : JButton | //Represent insert information button | |
| | insertInformationButtonPanel : JPanel | //Represent the insert information button panel | |
| | member : Members | //Represent the member | |
| | northLabel : JLabel | //Create the North Label | |
| | northPanel : JPanel | //Create the North Panel | |
| | OKButton : JButton | //Create the OK button | |
| | southPanel : JPanel | //Create the South Panel | |
| | | | |
| Books | author : String | //Represent the author of the book | |
| | available : boolean | //Inform if the book is available or not | |
| | bookID : int | //Represent the book ID | |
| | connection : Connection | //Represent the connection status | |

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| | copyright : int | //Represent the copyright | |
| | edition : int | //Inform the edition of the book | |
| | ISBN : String | | |
| | library : String | //Inform the name of the library | |
| | numberOfAvailableBooks : int | //Inform the number of books available | |
| | numberOfBooks : int | //Inform the number of books in the library | |
| | numberOfBorrowedBooks : int | //Inform the number of borrowed books | |
| | pages : int | //Inform the number of pages of the book | |
| | publisher : String | //Represent the name of the publisher | |
| | resultSet : ResultSet | | |
| | statement : Statement | | |
| | subject : String | | |
| | title : String | //Represent the title of the book | |
| | URL : String | | |
| | | | |
| Borrow | bookID : int | //Inform the book ID | |
| | connection : Connection | //Inform the connection status | |
| | dayOfBorrowed : Date | //Represent the day of the borrowing | |
| | dayOfReturn : Date | //Represent the day of the return | |
| | memberID : int | //Represent the member ID | |
| | resultSet : ResultSet | | |
| | statement : Statement | | |
| | URL : String | | |
| | | | |
| BorrowBooks | book : Books | //Inform the book that is going to be borrowed | |
| | borrow : Borrow | //Represent the borrowing | |
| | borrowButton : JButton | //Represent the borrow button | |
| | borrowButtonPanel : JPanel | //Represent the borrow button panel | |
| | cancelButton : JButton | //Represent the cancel button | |
| | centerPanel : JPanel | | |
| | data : String[] | | |
| | date : String | | |
| | informationLabel : JLabel[] | | |
| | informationPanel : JPanel | | |
| | informationString : String[] | | |
| | informationTextField : JTextField[] | | |
| | member : Members | //Represent the member | |
| | northPanel : JPanel | | |
| | southPanel : JPanel | | |
| | title : JLabel | //Inform the title of the book that is going to be borrowed | |

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|-------------|----------------------------------|--|--|
| Center | I : JLibrary | | |
| JLibrary | addBooks : AddBooks | //creates objects from others classes to use in the ActionListener | |
| | addMembers : AddMembers | //creates objects from others classes to use in the ActionListener | |
| | borrowBooks : BorrowBooks | //creates objects from others classes to use in the ActionListener | |
| | desktop : JDesktopPane | //variable to add objects from others classes | |
| | desktopScrollPane : JScrollPane | //does nothing... | |
| | goButton : JButton | //represents a button in the search tool bar | |
| | listBooks : ListBooks | //creates objects from others classes to use in the ActionListener | |
| | listMembers : ListMembers | //creates objects from others classes to use in the ActionListener | |
| | menu : Menubar | //creates objects from others classes to use in the ActionListener | |
| | returnBooks : ReturnBooks | //creates objects from others classes to use in the ActionListener | |
| | search : SearchBooksAndMembers | //creates objects from others classes to use in the ActionListener | |
| | searchLabel : JLabel | //represents a label in the search tool bar | |
| | searchPanel : JPanel | //represents a panel in the search tool bar | |
| | searchTextField : JTextField | //represents a text field in the search tool bar | |
| | searchToolBar : JToolBar | //represents a toolbar in the search tool bar | |
| | splitPane : JSplitPane | //does nothing... | |
| | statusbar : StatusBar | //creates objects from others classes to use in the ActionListener | |
| | toolbar : Toolbar | //creates objects from others classes to use in the ActionListener | |
| | treeScrollPane : JScrollPane | //does nothing... | |
| ListBooks | DATABASE_URL : String | //constant of the database url | |
| | DEFAULT_QUERY : String | | |
| | JDBC_DRIVER : String | //database related | |
| | centerPanel : JPanel | //for the creation of center panel | |
| | column : TableColumn | //for the creation of the tablem column | |
| | northLabel : JLabel | //label creation | |
| | northPanel : JPanel | //panel creation | |
| | printButton : JButton | //button creation | |
| | scrollPane : JScrollPane | //scroll pane creation | |
| | table : JTable | //table creation | |
| | tableModel : ResultSetTableModel | //storing an object of the ResultSetTableModel class | |
| ListMembers | DATABASE_URL : String | //constant of the database url | |
| | DEFAULT_QUERY : String | | |
| | JDBC_DRIVER : String | //database related | |
| | centerPanel : JPanel | //for the creation of center panel | |
| | column : TableColumn | //for the creation of the tablem column | |

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| | label : JLabel | //label creation | |
| | northPanel : JPanel | //panel creation | |
| | printButton : JButton | //button creation | |
| | scrollPane : JScrollPane | //scroll pane creation | |
| | table : JTable | //table creation | |
| | tableModel : ResultSetTableModel | //storing an object of the ResultSetTableModel class | |
| | | | |
| ListSearchBooks | centerPanel : JPanel | //panel creation | |
| | column : TableColumn | //Table Column creation | |
| | label : JLabel | //label creation | |
| | northPanel : JPanel | //panel creation | |
| | printButton : JButton | //button creation to print in the search | |
| | scrollPane : JScrollPane | //scroll pane creation | |
| | table : JTable | //table creation | |
| | tableModel : ResultSetTableModel | //storing an object of the ResultSetTableModel class | |
| | | | |
| ListSearchMembers | centerPanel : JPanel | //panel creation | |
| | column : TableColumn | //Table Column creation | |
| | label : JLabel | //label creation | |
| | northPanel : JPanel | //panel creation | |
| | printButton : JButton | //button creation to print in the search | |
| | scrollPane : JScrollPane | //scroll pane creation | |
| | table : JTable | //table creation | |
| | tableModel : ResultSetTableModel | //storing an object of the ResultSetTableModel class | |
| | | | |
| Members | connection : Connection | //Connection status | |
| | email : String | //Member's email | |
| | expired : Date | //Date of the expiration | |
| | ID : int | //Member ID | |
| | major : String | | |
| | memberID : int | | |
| | mony : int | | |
| | name : String | //Member's name | |
| | numberOfBooks : int | //Number of books borrowed by this member | |
| | password : String | //Member's password | |
| | resultSet : ResultSet | | |
| | statement : Statement | | |
| | URL : String | | |
| | | | |
| Menubar | addBook : JMenuItem | //Book addition | |

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|---------------------|-----------------------------------|---|--|
| | addMember : JMenuItem | //Member addition | |
| | bookMenu : JMenu | //Represent the book menu | |
| | borrowBook : JMenuItem | //Book borrowing | |
| | exit : JMenuItem | //Exiting the menu | |
| | fileMenu : JMenu | //Menu creation | |
| | icons : ImageIcon[] | //Icon creation | |
| | imageName16 : String[] | // | |
| | listBook : JMenuItem | //List the books | |
| | listMember : JMenuItem | //List the members | |
| | loanMenu : JMenu | //Create the loan menu | |
| | memberMenu : JMenu | //Create member menu | |
| | returnBook : JMenuItem | //Returning a book | |
| | searchBooksAndMembers : JMenuItem | //Searching books and members | |
| | searchMenu : JMenu | //Create the seach menu | |
| | | | |
| PrintingBooks | TAB_SIZE : int | //Tab size | |
| | connection : Connection | //Connection status | |
| | lines : Vector | //Create the lines | |
| | resultSet : ResultSet | //ResultSet from the statement which comes from the data base | |
| | statement : Statement | //Creating the statement | |
| | textArea : JTextArea | //Create the text area | |
| | URL : String | //Constant of the URL from the database | |
| | | | |
| PrintingMembers | TAB_SIZE : int | //Constant to check number os spaces in the Vector method | |
| | connection : Connection | //Connection status | |
| | lines : Vector | //Create the lines | |
| | resultSet : ResultSet | //ResultSet from the statement which comes from the data base | |
| | statement : Statement | //Creating the statement | |
| | textArea : JTextArea | //Creating text area | |
| | URL : String | //Constant of the URL from the database | |
| | | | |
| ResultSetTableModel | connectedToDatabase : boolean | //Keep track of database connection status | |
| | connection : Connection | //Connection status | |
| | metaData : ResultSetMetaData | //Getting the metaData from the ResultSet Class | |
| | numberOfRows : int | //Number of rows from the ResultSet | |
| | resultSet : ResultSet | //ResultSet from the statement which comes from the data base | |
| | statement : Statement | //Creating the statement | |
| | | | |
| ReturnBooks | book : Books | //Represent a book | |
| | borrow : Borrow | //Represent the borrowing | |

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|-----------------------|-------------------------------------|--|--|
| | cancelButton : JButton | //Create the cancel button | |
| | centerPanel : JPanel | //Create the center panel | |
| | data : String[] | //Data of the returning | |
| | informationLabel : JLabel[] | //Create the information label | |
| | informationPanel : JPanel | //Create the information panel | |
| | informationString : String[] | //Information string | |
| | informationTextField : JTextField[] | //Creating information text field | |
| | lblFinePerDay : JLabel | | |
| | lblTotalFineAmt : JLabel | | |
| | member : Members | //Member that is returning a book | |
| | northPanel : JPanel | //Create a north panel | |
| | returnButton : JButton | //Create return button | |
| | returnButtonPanel : JPanel | //Create return button panel | |
| | southPanel : JPanel | //Create south panel | |
| | title : JLabel | //Book title | |
| | txtFinePerDay : JTextField | | |
| | txtTotalFineAmt : JTextField | | |
| | | | |
| SearchBooksAndMembers | book : Books | //Book to be searched | |
| | booksData : String[] | //Create an array of sting to store data | |
| | booksKey : JLabel | //Create a label for the book key | |
| | booksKeyTextField : JTextField | //Create the book key textfield | |
| | booksTypes : String[] | | |
| | cancelButton : JButton | //Create the cancel button | |
| | center : JPanel | //Create center | |
| | centerBooksPanel : JPanel | //Create center panel | |
| | centerMembersPanel : JPanel | //Create the Center Panel | |
| | listBooks : ListSearchBooks | //Create a list of books | |
| | listMembers : ListSearchMembers | //Create a list of members | |
| | member : Members | //Create a member | |
| | membersData : String[] | //Create an array to store data | |
| | membersKey : JLabel | //Create the label for the key | |
| | membersKeyTextField : JTextField | //Create the text field | |
| | membersTypes : String[] | //Create an array of strings | |
| | northPanel : JPanel | //Create north panel | |
| | searchBooksButton : JButton | //Create the button search | |
| | searchBooksButtonPanel : JPanel | //Create an Internal Panel in the center panel | |
| | searchBooksLabel : JLabel | //Create the search book label | |
| | searchBooksPanel : JPanel | //Create the search book panel | |
| | searchBooksTypes : JComboBox | //Create the serach book combo box | |

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| | searchMembersButton : JButton | //Create the members button | |
| | searchMembersButtonPanel : JPanel | //Create an Internal Panel in the center panel | |
| | searchMembersLabel : JLabel | //Create the table | |
| | searchMembersPanel : JPanel | //Create an Internal Panel in the center panel | |
| | searchMembersTypes : JComboBox | | |
| | southPanel : JPanel | //Create the south panel | |
| | title : JLabel | //For criating the tile label | |
| | | | |
| StatusBar | statusBar : JLabel | //Create a label | |
| | | | |
| Toolbar | button : JButton[] | //Create the buttons to use them in ToolBar | |
| | imageName24 : String[] | //Create the name of the image file 24*24 | |
| | tipText : String[] | //Create the tipText for the toolbar | |
| | | | |
| xxxxxxxxxxxxxxxxxxxxxx | xx | xx | |
| | | | |
| | | | |
| Entity | image : BufferedImage | //Image in buffered | |
| | loc : Node | //Represent on place in the map | |
| | map : Map | //Represent the map | |
| | seenByPlayer : boolean | //Describe if the player can see or not | |
| | visibleToPlayer : boolean | //Describe if can be visible for the player or not | |
| | | | |
| Actor | acted : boolean | //Represent if something was done in the player's turn | |
| | atk : int | //Represent the attack force | |
| | attacked : boolean | //Describe if the player was attacked or not | |
| | damageDealt : int | //Quantity of damage caused in other | |
| | damageTaken : int | //Quantity of damage caused in player | |
| | hp : int | //Life of the Player | |
| | initialPathSize : int | //Actual place of the player in map | |
| | level : int | //Represent the Player's level | |
| | maxHP : int | //Represent maximum amount of hp | |
| | moved : boolean | //Describe if the player was moved or not | |
| | myTurn : boolean | //Describe if the current turn is the Player's turn | |
| | path : List<Node> | //List contains all map's places | |
| | previousNode : Node | //Saves the previous place | |
| | sm : SoundManager | //Sound Manager | |
| | stance : boolean[] | //Describes the conditions: normal, attacking, hit and shooting | |
| | timers : int[] | //Represent the timers of the game | |
| | turnsOnNode : int | //Turns on node | |

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| ActorQueue | queue : List<Actor> | //Represent the queue of the Actors | |
| Enemy | awareOfPlayer : boolean targeted : boolean xpReward : int | //Describe if the enemy is aware of player //Describe if the enemy is the target //Represent the amount of experience reward | |
| EnemyGroup | enemies : List<Enemy> map : Map | //List of enemies in the map //Represents the game's map | |
| Player | blink : boolean cancel : boolean close : boolean dl : boolean dn : boolean dr : boolean enemiesDefeated : int explode : boolean fireArrow : boolean getTargets : boolean gotTargets : boolean hasKey : boolean lt : boolean newEnemies : boolean nextTarget : boolean openedLock : boolean previousTarget : boolean quicken : boolean rt : boolean shout : boolean target : Enemy targetEnemy : boolean targets : List<Enemy> turnsOnLevel : int turnsSinceCombat : int ul : boolean up : boolean ur : boolean wait : boolean xpEarned : double | //Represents blink state of the player //Represents cancel state (action on target) of the player //Represents the action to close //Represents the "dl" direction //Represents the "dn" direction //Represents the "dr" direction //Counts the total of enemies defeated //Action from the wizard character //Action of the ranger character //Action to interact with target //Target got //Checks if the player has the key //Represents the "lt" direction //Represents the enemies visible //Represents the order of the actions on the targets //Checks if a lock is opened //Represents the order of the actions on the targets //Action from the wizard character //Represents the "rt" direction //Shout action of the player //Represents the enemy which the player can interact //Represents the list of enemies //Represents the regen of the health //Represents the regen on battle of the barbarian character //Represents the ul direction //Represents the "up" direction //Represents the "ur" direction //Represents the ending of turn without action //Represents the total amount of xp from the player | |

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| Ranger | targets : List<Enemy> | | |
| GameplayState | addEnemyInterval : int | //Number of turns after which an enemy is added | |
| | aq : ActorQueue | | |
| | dungeonLevel : int | //Level of the dungeon | |
| | eg : EnemyGroup | //Group of enemies in the map | |
| | map : Map | //Represents the map | |
| | player : Player | //Represents the player | |
| | tickEnemies : boolean | | |
| | tickTimer : int | | |
| | TURN_DELAY : int | | |
| | turnCounter : int | //Number of turns | |
| | classChoice : int | //Represents the chosen class | |
| GameStateManager | GAMEPLAY_STATE : int | //Number that represent the gameplay state | |
| | MENU_STATE : int | //Number that represent the menu state | |
| | current : GameState | //The current game state | |
| | gameStates : List<GameState> | //List of game states | |
| LoseGameState | down : boolean | //Command used to change the choice | |
| | enter : boolean | //Command used to confirm the choice | |
| | up : boolean | //Command used to change the choice | |
| | choice : int | //Number that represents the coices | |
| | choices : String[] | //Choices in the end of the game (yes or no) | |
| | enemiesDefeated : int | //Number of enemies defeated in the game | |
| MenuState | down : boolean | //Change the charactr's class | |
| | enter : boolean | //Confirm the charactr's class | |
| | FONT_SIZE : int | //Size of the font | |
| | up : boolean | //Change the character's class | |
| | classChoice : int | //Class choosen by the user | |
| | menuOptions : String[] | //Options of character's class (barbarian, thief, etc.) | |
| WinGameState | down : boolean | //Command used to change the choice | |
| | enter : boolean | //Command used to confirm the choice | |
| | up : boolean | //Command used to change the choice | |
| | choice : int | //Number that represents the coices | |
| | choices : String[] | //Choices in the end of the game (yes or no) | |
| | enemiesDefeated : int | //Number of enemies defeated in the game | |

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|--------------|----------------------------------|-----------------------------------|--|
| | turns : int | //Number of turns | |
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| ImageManager | ant : BufferedImage | //Ant image | |
| | archer : BufferedImage | //Archer image | |
| | arrows : BufferedImage | //Arrows image | |
| | bang : BufferedImage | //Bang image | |
| | barbarian : BufferedImage | //Barbarian image | |
| | bat : BufferedImage | //Bat image | |
| | boundaryWall : BufferedImage | //Image of boundary Wall | |
| | closedDoor : BufferedImage | //Image of coled door | |
| | closedDoorShadow : BufferedImage | //Shadow image of the closed door | |
| | corpse : BufferedImage | //Corpse image | |
| | demon : BufferedImage | //Demon image | |
| | eye : BufferedImage | //Eye image | |
| | fire : BufferedImage | //Fire image | |
| | frogKnight : BufferedImage | //Image of the Frog Knight | |
| | gargoyle : BufferedImage | //Gargoyle image | |
| | gelatinousCube : BufferedImage | //Gelatinous Cube image | |
| | goal : BufferedImage | //Goal image | |
| | goalShadow : BufferedImage | //Shadow image of the goal | |
| | goblin : BufferedImage | //Goblin image | |
| | gremlin : BufferedImage | //Gremilin image | |
| | hammer : BufferedImage | //Hammer image | |
| | hammerShadow : BufferedImage | //Shadow image of the hammer | |
| | imp : BufferedImage | //Imp image | |
| | key : BufferedImage | //Key image | |
| | keyShadow : BufferedImage | //Shadow image of the key | |
| | lock : BufferedImage | //Lock image | |
| | lockOpen : BufferedImage | //Image of open lock | |
| | lockOpenShadow : BufferedImage | //Shadow image of the open lock | |
| | lockShadow : BufferedImage | //Shadow image of the lock | |
| | miss : BufferedImage | //Miss image | |
| | ogre : BufferedImage | //Ogre image | |
| | openDoor : BufferedImage | //Image of the open door | |
| | openDoorShadow : BufferedImage | //Shadow image of the open door | |
| | panther : BufferedImage | //Panther image | |
| | potion : BufferedImage | //Potion image | |
| | potionShadow : BufferedImage | //Shadow image of the potion | |
| | ranger : BufferedImage | //Ranger image | |
| | rat : BufferedImage | //Rat image | |

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| | scorpion : BufferedImage | //Scorpion image | |
| | snake : BufferedImage | //Snake image | |
| | spider : BufferedImage | //Spider image | |
| | stairDown : BufferedImage | //Image of stair down | |
| | stairDownShadow : BufferedImage | //Shadow image of the stair down | |
| | stoneTile : BufferedImage | //Stone Tile image | |
| | stoneTile1Shadow : BufferedImage | //Another stile of stone tile image | |
| | stoneWall : BufferedImage | //Stone wall image | |
| | stoneWallShadow : BufferedImage | //Shadow image of the stone wall | |
| | swords : BufferedImage | //Swords image | |
| | thief : BufferedImage | //Thief imade | |
| | voidNode : BufferedImage | //Empty place image | |
| | wasp : BufferedImage | //Wasp image | |
| | wizard : BufferedImage | //Wizard image | |
| | wolf : BufferedImage | //Wolf image | |
| | worm : BufferedImage | //Worm image | |
| | wyvern : BufferedImage | //Wyvern image | |
| | zombie : BufferedImage | //Zombie image | |
| | | | |
| SpriteSheet | sheet : BufferedImage | //Sheet image | |
| | | | |
| Game | COLUMNS : int | //Columns on the map | |
| | fps : double | | |
| | gameThread : Thread | | |
| | gsm : GameStateManager | //Menage the game states | |
| | im : ImageManager | //Menage the images on the screen | |
| | MAX_FRAME_SKIPS : int | //The maximum of frames that can bo skiped | |
| | maxUpdateTime : double | //Represents the maximum time to update | |
| | MSG_HEIGHT : int | | |
| | NO_DELAYS_PER_YIELD : int | | |
| | ROWS : int | //Row on the map | |
| | running : boolean | //Repevents if the game is running or not | |
| | SCALE : int | | |
| | SCALED_TILE_SIZE : int | | |
| | serialVersionUID : long | | |
| | TARGET_FPS : int | | |
| | tickTimer : int | | |
| | TILE_SIZE : int | //Represent the size of a tile | |
| | TURN_DELAY : int | | |
| | turnCounter : int | //Number of turns | |

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|------------|------------------------------|--|--|
| | W_COLS : int | //Displayed nodes | |
| | W_HEIGHT : int | //Window height | |
| | W_ROWS : int | //Displayed nodes | |
| | W_WIDTH : int | //Window width | |
| | spriteSheet : BufferedImage | | |
| | ticksPerSecond : double | | |
| | | | |
| KeyManager | gsm : GameStateManager | | |
| | | | |
| Map | displayedNodesMaxX : int | //Maximum of nodes in the x axis | |
| | displayedNodesMaxY : int | //Maximum of nodes in the y axis | |
| | displayedNodesMinX : int | //Minimum of nodes in the x axis | |
| | displayedNodesMinY : int | //Minimum of nodes in the y axis | |
| | MAX_ROOM_HEIGHT : int | //Maximum height of a room | |
| | MAX_ROOM_WIDTH : int | //Maximum width of a room | |
| | MIN_ROOM_HEIGHT : int | //Minimum height of a room | |
| | MIN_ROOM_WIDTH : int | //Minimum width of a room | |
| | displayedNodes : Node[][] | //Nodes to be displayed | |
| | endNodeFound : boolean | //Value representing the last node | |
| | hSize : int | //Columns in the game | |
| | imageMap : BufferedImage[][] | | |
| | mapGrid : Node[][] | | |
| | rooms : Room[][] | //Rooms in the map | |
| | visibleToPlayer : List<Node> | //Nodes that the player can see | |
| | vSize : int | //Rows in the game | |
| | | | |
| Node | closedDoor : Feature | //Representation of the closed door space | |
| | floor : Feature | //Representation of the floor space | |
| | openDoor : Feature | //Representation of the open door space | |
| | voidNode : Feature | //Representation of the empty place | |
| | wall : Feature | //Representation of the wall place | |
| | entities : List<Entity> | //List of entities space | |
| | feature : Feature | //Representation of any kind of feature (places) | |
| | fScore : int | //Representation of the moviment | |
| | gScore : int | //Representation of the moviment | |
| | hScore : int | //Representation of the moviment | |
| | image : BufferedImage | //Image of the node | |
| | isDoorClosed : boolean | //Define if the Door node is closed | |
| | isDoorOpen : boolean | //Define if the Door node is open | |
| | isFloor : boolean | //Define if the node is floor | |

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|--------------|--------------------------|--|--|
| | isVoid : boolean | //Define if the node is empty | |
| | isWall : boolean | //Define if the node is wall | |
| | map : Map | //Representation of the game's map | |
| | parentNode : Node | //Representetion of the parent node | |
| | seenByPlayer : boolean | //Describe if the player can see or not the node | |
| | x : int | //Coordinate x | |
| | y : int | //Coordinate y | |
| | | | |
| Room | boundary : Rectangle | //Representation of the boundarie of the map | |
| | column : int | //Represents the column atribute of the room | |
| | connected : boolean | //Returns in the method connectTo | |
| | connectedTo : List<Room> | //List to add objects of the type room | |
| | height : int | //Represents the height atrobite of the room | |
| | map : Map | //Represents the hole map | |
| | row : int | //Represents the row atribute of the room | |
| | width : int | //Represents the width atribute of the room | |
| | x : int | //Coordinate x | |
| | y : int | //Coordinate y | |
| | | | |
| Feature | passable : boolean | //Just the return to the isPassable method | |
| | | | |
| SoundManager | sounds : Clip[] | //Array of sounds from the Clip class | |