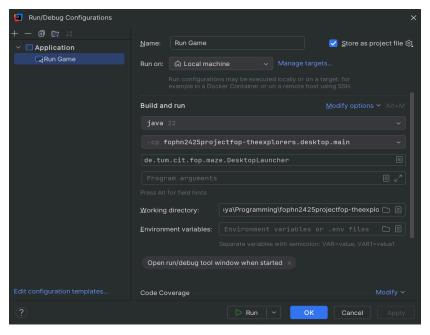
README FILE: MAZE RUNNER GAME (theexplorers)

1. Understanding Game mechanics

The game is a tomb raider styled maze-runner game, where the purpose is to escape the maze by collecting all of the treasures, still protected by the ghost of the owner, before losing all lives. The game starts off with a menu for the user to choose a maze out of the 5 available. Upon selecting a maze, a player has to walk through the entrance and start collecting the treasures. The user can press escape anytime during the gameplay and the game will be paused. The user can then choose to resume or start afresh. Upon success, a victory screen is displayed with a score (the time taken to escape the maze). Upon failure, a Game Over screen is displayed indicating all the lives are lost. Throughout the entire gameplay, an arrow will be present near the character directing towards the exit at all times. Upon collision with the traps or the enemy, a sound effect is played with the camera zooming in on the player. An additional feature includes increasing speed by pressing the Shift key and the arrow key in the desired direction.

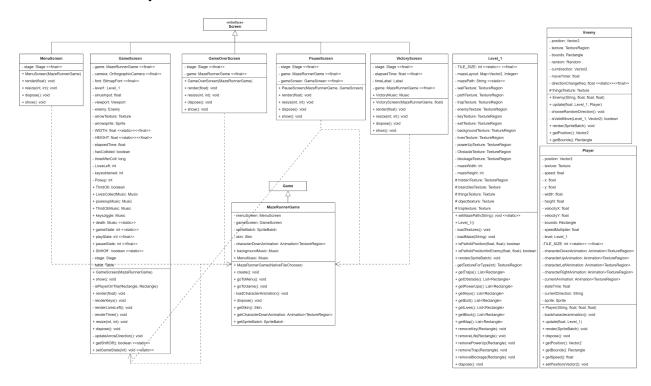
2. How to run and use the Game

To run the game, the IDE Intellij is recommended as this game was coded in there. Below is the setting required to run the game successfully:



Also, remove
-XstartOnFirstThread when
using Windows or Linux. All
the necessary files and
images used in the code are
available under the assets
section. Once the settings are
sorted, simply run the code
and the game should appear.

3. Class Hierarchy and code structure



The UML diagram above shows all of the classes present in the code. There are a total of 9 classes. All of the screen classes: MenuScreen, GameScreen, GameOverScreen, PauseScreen, and VictoryScreen, implement the Screen Interface LibGDX. in MazeRunnerGame extends the Game class (also included in LibGDX). All of the screen classes connected MazeRunnerGame through dependency as they all use the MazeRunnerGame class in their respective constructors. The UML diagram above consists of arrows, the dashed arrows show dependency and the solid arrow pointing towards the interface shows inheritance. The GameScreen class has associations with the three other classes: Player, Enemy, and Level_1 to handle game logic and react to a scenario accordingly.