Exercise 1

1.

TwentyFourtyGame	
Superclass: Game	
Subclasses: none	·
Setting screen	GameScreen
Initialize handler of the assets	AssetHandler
Initialize handler of the buttons	ButtonHandler
Initialize scores from preferences	PreferenceHandler
Disposing of the screen	GameScreen
Disposing of the handler of assets	AssetHandler
Disposing of the game	Game

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ProgressHandler
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GameWorld	
Superclass: none	
Subclasses: none	
Load saved game	ProgressHandler
Creating new game	AnimatedGrid
Handling the state of the gam	GameState
Handling the highscore	
Handling the highest tile	
Handling the current score	

TileHandler	
Superclass: none	-
Subclasses: none	
Determine if a neighbour is free	
Move all the tiles in one direction	Tile
Merge the tiles which have the same value	Tile

Grid	
Superclass: none	
Subclasses: AnimatedGrid	
Initialize the grid with two random tiles	Tile
Setting the tiles in the grid	Tile
Handling the moving of each tile	TileHandler
Checking if there is a move left	

InputHandler	
Superclass: InputProcessor	
Subclasses: none	•
Detects key pressed	
Gives the direction of the key	Grid

2.

The other classes do have one responsibility and are not necessary for the basics of the game. The classes we will keep are Tile, AssetHandler, ProgressHandler, PreferenceHandler, CoordinateHandler and all the Button classes as they have all a unique responsibility.

We are going to delete the GameRenderer as we have found a better way to render using stages and actors from the library GDX.

After reflection it was clear that we could merge TwentyFourtyGame with GameWorld, as they would have similar responsibility after we started using stages and actors. The class ProgressHandler will get the responsibility from GameWorld to make initialize a Grid, as it already made a Grid when a game was saved. The class ButtonHandler became also obsolete after using stages and actors, as the buttons could become an actor.

We are going to merge the AnimatedGrid with Grid and AnimatedTile with Tile; these were separate so it conformed to the model view controller pattern. These are now also actors.



