TDT4240 - Introduction Exercise

Android Game Application

Shahariar Kabir Bhuiyan

shaharib@stud.ntnu.no

General information

Project name: IntroAndroid

Source code:

- Location:
 - o IntroAndroid/app/src/main/java/no/ntnu/shaharib/

APK file:

- Name: tdt4240-exercise1-shaharib@stud.ntnu.no.apk

- Location: IntroAndroid/app"

Application name after installation of APK file:

- Name: Menu

Application has mostly been tested on:

- Nexus 7 (2013)
 - o Screen resolution: 1920x1200
 - o Works best here. Background optimized for this screen resolution.
- A little bit on Sony Xperia Z2
 - o Screen res: 1920x1080

- o Might be a little bit more buggy, but most of the functionality works.
 - Paddle 1 is smaller than paddle 2 for example (optimized for nexus 7).
 - Helicopter on task 3 starts on the upper left corner, be careful with where you touch, the helicopter might go beyond the edge (not suppsed to do it, a bug. Works well if you
- Shall work on most of the screen resolution, but not optimized for lower screen resolution.

Information about the tasks

Task 1 and 2:

- Filename: HelicopterNormal.java
- Location: helicopter/HelicopterNormal.java
- General information
 - o Just a helicopter sprite which flies around.
 - o Tap to send helicopter to the position you've tapped.
 - o Drag to drag the helicopter.
 - Position showed at top left corner.

- Some bugs:

- o Might get stucked to the edges (something with the collision)
- Doesn't start properly when you've finished dragging. Need to be patience with tapping, might register it as drag sometimes.

Task 3:

- Filename: HelicopterAnimation.java
- Location: helicopter/HelicopterAnimation.java
- General information
 - o Mostly tested on Nexus 7.
 - o Helicopter starts on the top left corner. It animates as well.
 - o Position shows at the top left corner as well.
 - o 6 balloons sprites, not animated.
 - o Helicopter and the balloons bounces off each other if they meet/collides.
 - o Tap to send helicopter towards that location.
 - o Balloons speed is generated randomly between a range, might have low speed.

- Bugs

- o Helicopter might bounce out of the screen if you give it high speed.
- o The helicopter might get stucked to the balloons.
- o The balloons might get stucked to each other.
- o The balloons and the helicopter might get stucked to the edges (right edge).
 - Think it something with how I've coded, I thing it might try to set speed two times or something. Didn't get time to test it more.
 - This also makes the balloons disappear from the screen sometimes.

Task 4

- Filename: Pong.java

- Location: pong/Pong.java

- General information:
 - o Works on landscape mode.
 - Multiplayer, but not multitouch. One paddle can be moved at time, using touch function to drag.
 - Ball increases speed after 5 seconds.
 - Resets when someone scores.
 - 5 scores = game over, not 21!

- Bugs

- o The ball might get stucked to the paddle if it hits the corner of the paddle.
- o Sometimes the ball gets stucked at the wall as well.