# VG100 — Introduction to

## **Engineering**

Project 1 Report (Team 1)

#### Rubric

- Game Design (10 pts)
- Code Quality (50 pts)
- Readme (15 pts)
- Personal work (20 pts)

### 1 Game Design

Not included in this report.

### 2 Code Quality

Your total score of this part is 46/50.

All related information is listed below:

1 point(s) deduction, duplicate code, in file Model.elm, lines 60-118.

```
setBlockPos: (Float, Float) \rightarrow Block
     setBlockPos(x,y) =
61
           { category = SimpleBlock
            , color = Color.fromName "red"
            , rect =
64
               \{ width = 90 \}
65
               , height = 45
               , centerPos = (x, y)
67
68
            , isDestroyed = False
69
     setBallBlockPos(x,y) =
           { category = BallBlock
110
            , color = Color.fromName "red"
111
            , rect =
112
               \{ width = 90 \}
113
               , height = 45
114
               , centerPos = (x, y)
115
116
               }
            , isDestroyed = False
117
118
```

1 point(s) deduction, hard-coded contents, in file Model.elm, lines 144-168.

```
[setBlockPos (45,22.5), setStrongBlock-
150
                                                                                                                                                                          Pos (136,22.5), setBlockPos (227, 22.5), setSolidBlockPos (318, 22.5), setBlockPos (409, 22.5), setBlockPos (500,
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167
                                                                                                                                               initialBlocks
168
         1 point(s) deduction, too long function, in file Update.elm, lines 11-160.
```

update msg model =

```
case msg of
   12
  13
                                       Resize width height ->
                                                 ( { model | size = ( toFloat width, toFloat height ) }
  14
                                                  , Cmd.none
   16
                                       GetViewport { viewport } ->
  17
                                                 ( { model
   18
                                                            size =
   19
                                                                      ( viewport.width
   20
                                                                                           ({model|moreScore=True, score = model.score - 150, shopping=Buy buff},Cmd.none)
151
                                                                     else
152
                                                                                ({model|shopping=Poor},Cmd.none)
153
                                                            MoreLife ->
                                                                     if model.score > 150 then
155
                                                                                ({model|life = model.life + 1, score = model.score - 150, shopping=Buy buff}, Cmd.none)
156
                                                                     else
157
                                                                                ({model|shopping=Poor},Cmd.none)
158
                                       NoOp ->
159
                                                 (model, Cmd.none)
160
    1 point(s) deduction, hard-coded contents, in file View.elm, lines 420-447.
                  #### 1. Brief Introduction & Victory Requirement
420
                 Treasure hunter is a game in which player breaks bricks with a bouncy ball to gain magic power, and pass the stage upon your
                    → magic level reaching the required amount of magic. Each stage will have a specified requirement. Magic can be used to
                    \hookrightarrow strengthen the paddle and ball.
                  The amount of balls you control is limited. If you have lost all of your balls, the game loses and you have to restart.
422
                  #### 2. Enhancement
                  You can go to the "witch's hut" enhance your power using magic. A certain amount of magic is needed for each enhancement, but
424
                    \hookrightarrow will consume the magic you have. Consider before each purchase!
                   #### 3. Keyboard Control
425
                  Use "WASD" to move the paddle. "W" for moving up, "S" for moving down, "A" for moving left, "D" for moving right.
426
                  #### 4. Bricks
427
                  ![](resources/s_simple.png) Normal brick: no special effects
428
                  ![](resources/s_strong.png) Thick brick: need two hits to be broken
                  ### References:
438
                  1. Cover picture - https://unsplash.com/photos/5DIFvVwe6wk
                  2. Background music in the game - https://www.bensound.com/royalty-free-music/track/adventure
440
                  3. Magical theme background picture - https://unsplash.com/photos/_l4yffWjgt4
441
                  4. Background of magic ball - https://www.google.com/imgres?imgurl=http%3A%2F%2Fpic.vjshi.com%2F2019-02-
                                 22\%2Fc6a8212cd6a00b4d3620682b12744501\%2F00003.jpg\%3Fx-oss-delta-fine and the contraction of the contractio
                                  process\%3Dstyle\%2Fwatermark\&imgrefurl=http\%3A\%2F\%2Fwww.kaimalo.com\%2Fimg\%2F4c2b8dbc2f7c7aebeabc8a7b7a4c.html\&tbnid=nrocess\%3Dstyle\%2Fwatermark\&imgrefurl=http\%3A\%2F\%2Fwww.kaimalo.com\%2Fimg\%2F4c2b8dbc2f7c7aebeabc8a7b7a4c.html\&tbnid=nrocess\%3Dstyle\%2Fwatermark\&imgrefurl=http\%3A\%2F\%2Fwww.kaimalo.com\%2Fimg\%2F4c2b8dbc2f7c7aebeabc8a7b7a4c.html\&tbnid=nrocess\%3Dstyle\%2Fwatermark\&imgrefurl=http\%3A\%2F\%2Fwww.kaimalo.com\%2Fimg\%2F4c2b8dbc2f7c7aebeabc8a7b7a4c.html\&tbnid=nrocess\%3Dstyle\%2Fwatermark\&imgrefurl=http\%3A\%2F\%2Fwww.kaimalo.com\%2Fimg\%2F4c2b8dbc2f7c7aebeabc8a7b7a4c.html\&tbnid=nrocess\%3Dstyle\%2Fwatermark\&imgrefurl=http\%3A\%2F\%2Fwww.kaimalo.com\%2Fimg\%2F4c2b8dbc2f7c7aebeabc8a7b7a4c.html\&tbnid=nrocess\%3Dstyle\%2Fwatermark\&imgrefurl=http%3A\%2F\%2Fwww.kaimalo.com\%2Fimg\%2F4c2b8dbc2f7c7aebeabc8a7b7a4c.html\&tbnid=nrocess\%3Dstyle\%2Fwatermark\&imgrefurl=http%3A\%2F\%2Fwww.kaimalo.com\%2Fimg\%2F4c2b8dbc2f7c7aebeabc8a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b7a6c.html&theabc9a7b
                                 X1h43qAhUXhJQKHdbmCh8QMygRegUIARC0AQ..i\&docid=KSt2BmBBE9gttM\&w=1082\&h=1080\&q=\%E9\%AD\%94\%E6\%B3\%95\%E6\%B2BE9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E6\%B2BE9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080\&q=\%E9\%AD\%94\%E6\%B3\%95\%E9gttM\&w=1082\&h=1080\&q=\%E9\%AD\%94\%E6\%B3\%E9gttM\&w=1082\&h=1080\&q=\%E9\%AD\%94\%E6\%B3\%E9gttM\&w=1082\&h=1080\&q=\%E9\%AD\%94\%E6\%B3\%E9gttM\&w=1082\&h=1080\&q=\%E9\%AD\%94\%E6\%B3\%B1\%E6\%B3\%E9gttM\&w=1082\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080\&h=1080
                                 X1h43qAhUXhJQKHdbmCh8QMygRegUIARC0AQ
                  22 22 22
443
444
                                                                        Markdown.toHtml [] """
445
                   **This should never appear** is reference a game written by pgroup1 of class VG100 in UMJI of SJTU in 2020 summer.
446
447
```

2 point(s) deduction, elm-stuff in git repo.

2 point(s) bonus, some documentations found.

# 3 Readme

Not included in this report.

# 4 Personal work

Not included in this report.