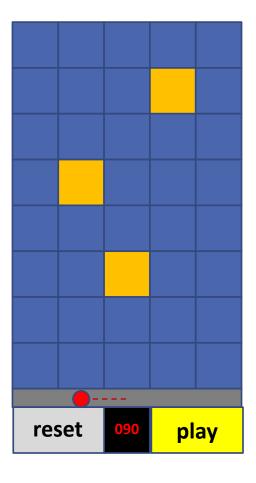
Pinball Machine Design

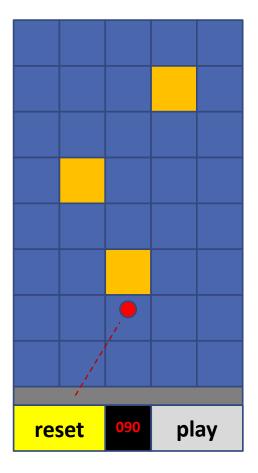
GRUIA-CATALIN ROMAN

8 MAY 2018

Screen Layout

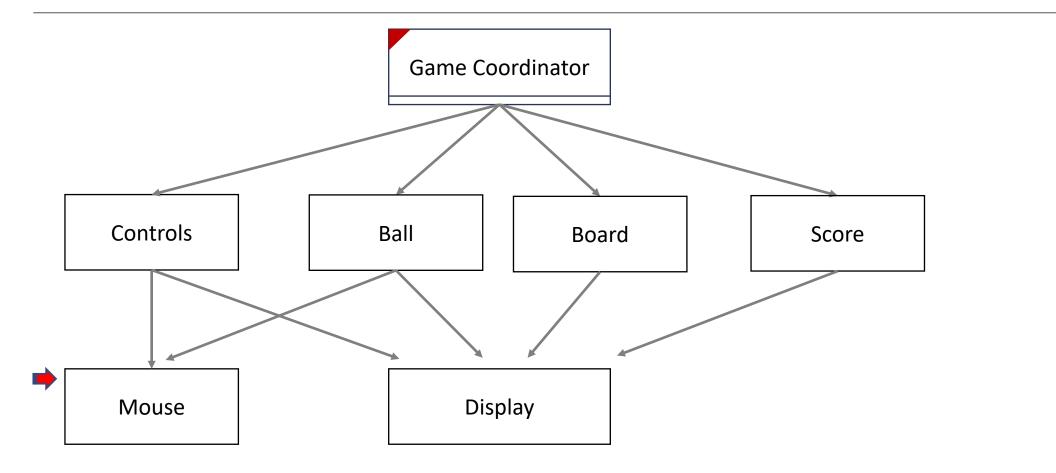


In the reset state the ball can be moved left or right



At the start of the play state the ball was released in a random direction and moves in a straight line eventually reflecting on the walls

Proposed Design



Design Details

- Display
 - getBoardWidth()
 - getBoardHeight()
 - getBoardRows()
 - getBoardColumns()
 - setBallAt(location)
 - setTileColor(row, col, state)
 - setPlayButton(state)
 - setResetButton(state)
 - setScoreValue(value)

- Ball
 - reset()
 - move() active only after setInPlay() has been invoked; new position stops at the wall
 - getLocation() (x,y)
 top left corner is (0,0)
 - setInPlay()
 - setOffPlay()
 - setStartLocation() checks for the mouse location on the gray bar only after setOffPlay() has been invoked

Design Details

- Controls
 - getMode() play or reset
 a mouse press on the active button
 changes mode; the mouse is polled
- Score
 - reset()
 - getCurrentValue() value
 - incrementBy(value)

Design Details

- Board
 - reset()
 - touch(location) points scored informs the board of the location of the ball; on touching a yellow tile the color changes and the points are returned; on touching a blue tile zero points are returned