Flood-It!

Problem Statement: The need for a challenging strategy game that is:

- played on the go
- fun
- incorporates colors

Expected Users:

- Busy individuals who would like to play a strategy game in their "free time"
- Anyone who would like to play a fun short strategy game
- Us

User Journeys:

- Start Game
- Choose color scheme
- Choose difficulty levels
- Play the game
- Advanced:
 - o Level play
 - Leaderboard (based on best time)

App Activities:

- Welcome activity
 - Play
 - Settings
 - Instructions
- Main Activity(Play)
- Settings Activity
 - Color scheme
 - o Difficulty level
- Instructions Activity
- Win Activity
 - o Replay
 - New Game
 - Back button

Levels:

- Easy: 22 steps, 3 colors
- Medium: 30 steps, 5-6 colors
- Hard: 36 steps, 7-8 colors

Back-end

Main Activity

- Properties
 - Button[] colorButtons
 - GridView boardView
 - Board board
- Methods:
 - onCreate()
 - createBoard()
 - o floodGrid()
 - checkWon()
 - o gameWon()
- 1. Default Board
 - a. 2*2
 - b. 2 colors(red and blue)
 - c. numSteps =2

Tile

- Properties
 - o Int x
 - Int y
 - o Color color
- Constructor
 - tile(int x,int y,Color color)
- Methods
 - getColor()
 - setColor()
 - o getX()
 - o getY()
 - 0

Board

- Properties:
 - o Int size
 - o Level level: easy, medium, hard, default
 - o Tile[][] tiles
- Constructor:
 - Board(level)
- Methods:
 - createBoard()
 - o floodGrid() //fills color of upper left area with color passed it
 - o checkWon()
 - setLevel() / or getLevel() from Parcelabel...

DESIGN DOCS

is (4) flood-et! Board int size 2 diffiguet
int level 2 default
Rile tile 2 default
Gridview view
Coolor Puttons
Coolor View Color View
Board (level) Tile int x int y Color color Main Activity Controns



