DiceUp Documentation & Plans

Application



Graphical User Interface

The GUI is based on **JavaFX** and will follow the model-view-controller scheme. The model will be made within **FXML**.

Board Layout

The *backgammon board* was introduced in a root container with **top-left** align (objects are printed horizontally beginning from right).

Following items were used inside the board:

- VBox LeftView, the left window of the board
 - **HBox** *TopLeftCols*, the *top left* window that displays 6 columns (*Col*##)
 - VBox Col##, a column that displays the chips vertically
 - VBox GapLeft, a space that has VGrow ALWAYS that fills space when resized
 - **HBox** RightLeftCols, the bottom left window that displays 6 columns (Col##)
 - VBox Col##, a column that displays the chips vertically
- VBox MiddleSector, a middle divider that displays hit chips
 - VBox MiddleCol, a column that displays the chips vertically
 - VBox MiddleCol, a column that displays the chips vertically
- VBox RightView, the right window of the board
 - · Same content as LeftView

Logic

The logic package of the game will include the barebones of the game play. The *GUI* package will communicate with this *GamePlay* package to retrieve status of the game.

TODO: DESIGN THE UML DIAGRAM!

Class Structure

This package is designed to work with and without the GUI for future plans on *machine learning*.

Following classes were created in the package:

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- Game wrapper that holds the status of the current round
- Player holds players information
 - Al extends Player that behaves as an interface for Al methods
- Dice generates a number in 1:6 and stores it
- Board stores 4x6 Columns and retrieves current positions of individual chips
- Column stores Chips
- Chip stores an identifier for ownership