

DiceUp Documentation & Plans

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** - *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!

Following classes were created in the package:

- **Game** - wrapper that holds the status of the current round
- **Player** - holds players information
 - **AI** - extends **Player** that behaves as an interface for AI methods

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- **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