MULTIPLAYER YAHTZEE

Blue Bulldogs

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PROJECT OVERVIEW

Multiplayer Yahtzee

- On every player's turn, they have the option to roll the dice three times
- On each roll, possible scores are displayed in the current player's scorecard, the player can then choose which dice to keep and roll again
- After rolling, the player must record a score on their scorecard, regardless if they have any points or not
- The player can choose to count totals of matching dice, or score points for three of a kind, four of a kind, a full house, a small straight, a large straight, a yahtzee, or simply add total of all dice.
- The player finishes the game when their entire scorecard is filled out.
- Limitations: No more than eight players
- Assumptions: 5 6-sided dice, 3 rolls per turn

FUNCTION REQUIREMENTS

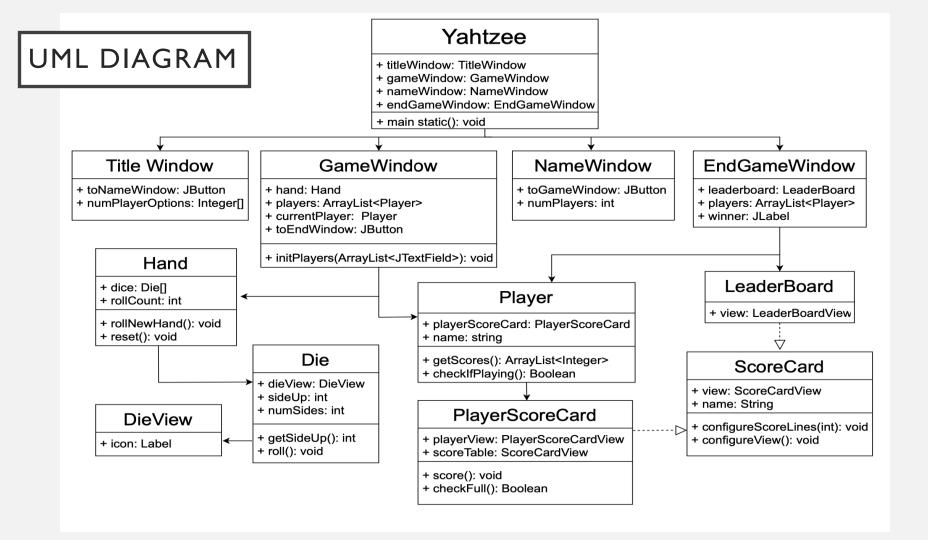
- Let user pick number of players
- Iterate through players in the game
- Let players enter player names
- Let user navigate between windows

NON - FUNCTION REQUIREMENTS

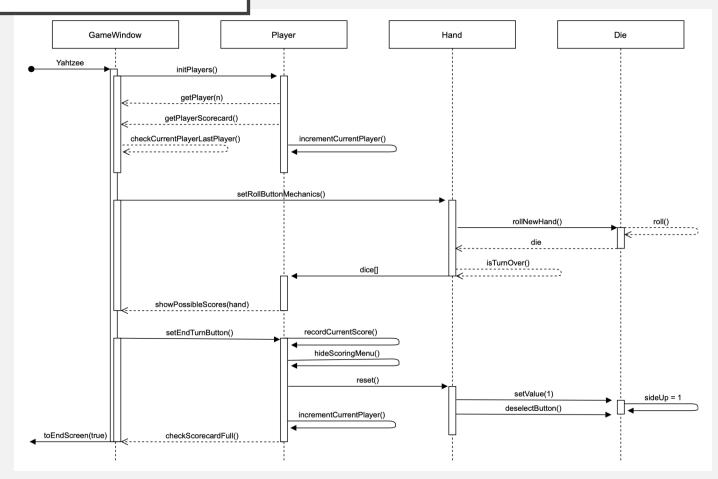
- Create cohesive color scheme
- Make each player scorecard a different color
- Display winner in end screen
- Display what roll current player is on
- Display who's turn it is at top of screen

PROJECT SOLUTION APPROACH

- What are the major components in your solution design?
 - MVC pattern
 - Game Window Object Handles bulk of gameplay / component interaction
- What game/gui features did you really identify and work towards in your take on Yahtzee?
 - Multiple windows
 - Limit visibility
 - If the user isn't supposed to use a component yet, it isn't visible



SEQUENCE DIAGRAM



TEAM COLLABORATION APPROACHES

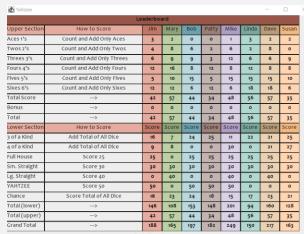
- Messaging tools we used: texting
- GitHub Issues:
 - Tried to make a milestone for every major project requirement and then broke it down in to smaller issues
- GitHub Branches
 - We tried to avoid any merge conflicts by assigning classes to work on
 - Generally careful about communicating any work done on other people's classes
- Did you code 100% separately, or did you do group hacking sessions?
 - Combination of coding separately and as a group
 - Fairly strong base code

TESTING, VALIDATION, AND ACCEPTANCE PLAN

- Testing Approaches:
 - Unit Tests
 - Integration Tests: MVC
 - Functional Tests: functional requirements were met
- What made a deliverable product:
 - Fulfilled all function requirements
 - Tests were built out for most areas of code
 - Satisfied with layout (fulfilled non-functional requirements)

LIVE DEMO TIME

- Major objects:
 - Player, Hand, Die, ScoreCard(s) (model)
 - Window(s) (view)
 - Buttons, Boxes, etc. (controller)
- Button presses do what??



Mike is the winner!

SUMMARY

- Lessons Learned/Experiences:
- Git Issues are important for tracking progression
- Changing the main branch is not the ideal way to fix code
- Communication can make or break a project

- Improvements:
- Expand testing harness
- Add button on end screen to return to title screen
- Implement Lizard-Spock Yahtzee

