REQUIREMENT ANALYSIS

Vision

We envision a “Simulated Monopoly Game” for our customers. This simulation has designed for players to be able to play traditional Monopoly board game with basic instructions. With the help of this software, customer can simulate Monopoly without physical objects.

Problem Statement

On each iteration each simulated player will automatically take turn, roll dices, move on the board based on the face values, and based on the landed square act according to the rules of traditional Monopoly board game.

Scope

- This system provides information about how many outcomes may occur at the end of the game to customer.
- This system provides observing result of monopoly game without playing and wasting time.
- This system may provide an information about how to enhance and upgrade the game.

System Constraints

- User can not have impact on the process of simulation after simulation start.
- There can not be more than 8 players and less than 2 players.
- The simulation will run within command prompt.
- Each player can roll the dice once per turn.

Stakeholders

- Murat Can Ganiz (Customer)
- Serap Korkmaz (Customer)
- A.Enes Gündüz (Developer)
- A.Tunahan Cinsoy (Developer)
- Muhammed F. Eroğlu (Developer)

Glossary of Term

Bank – A structure which handles all transactions happening in simulation

Board – Virtual plate for playing the game

Cell – Sub-board fields which have specifications for operations

Regular Cell – The cell that has no property

Starting Cell – Starting Cell, players get paid every time when they surpass here

Piece – An indicator which differentiates each player

Property – Buildings which are build for renting purposes

Player – Virtual actors of the game

Use Cases

1. Each player gets ingame money according to the input value from bank
2. Each player selects their own icon
3. Player moves her/his icon forward one by one according to face value of the dice
4. When movement ends, player does the prompts of that cell
5. Next player applies same steps
6. If a player loses all of his money, he gets out of the game
7. Until the number of candidates of the game become 1, same procedure happens
8. The last player wins the game