### **Use Case: Take A Turn**

## **Primary Actor:** Player

#### **Stakeholders and Interests:**

• *Player:* Wants to add the domino selected in the previous round/setup to their kingdom and select a new domino for the next round

#### **Preconditions:**

• The playing order for the round has been decided by selecting a domino in the previous round or in the initial setup.

## **Success Guarantee (Postconditions):**

• Each player has added the domino selected in the previous round to their kingdom, has selected a new domino for the next round and the playing order for the next round has been decided.

#### **Main Success Scenario:**

- 1. The system checks if there are dominoes left in the deck before commencing the round. [Alternate 1: No dominoes left in the deck].
- 2. The systems check for the number of players in the current game.
- 3. The system records the number of players currently in the game.
- 4. The system decides on number of dominoes to be included in the new set according to the number of players.
- 5. The system randomly selects a new set of dominoes from the deck.
- 6. The system removes the dominoes from the deck.
- 7. The system orders the dominoes in ascending order.
- 8. The system displays the dominoes with the terrain side facing down.
- 9. The system flips the dominoes and displays the terrain side.
- 10. The system checks the rank order of players from the previous round.
- 11. The system determines the highest ranked player who has not taken their turn yet.
- 12. The system verifies if a suitable spot is available for the domino claimed by the player in the previous round. [ Alternate 2: There is no suitable spot available for the domino].
- 13. The system asks the player to add the domino to their kingdom.
- 14. The player selects a spot for the domino in their kingdom from the available spots.
- 15. The system verifies the spot chosen is suitable as per the terrain rules. [Alternate 3: The chosen spot is not suitable]
- 16. The system places the domino in the player's kingdom.
- 17. The system asks the player to claim a domino for the next round by selecting from the set of dominoes selected by the system in Step 4. [Alternate 4: It is the last round]

- 18. The player claims a domino for the next round.
- 19. The system verifies whether the domino has been claimed by any other player. [ Alternate 5: Domino has already been claimed.]
- 20. The system records the domino selected by the player.
- 21. The system records the rank order of the player for the next round based on the domino claimed.
- 22. The system records that the player has taken their turn.
- 23. The system repeats steps 10 to 22 for rest of the players turn by turn according to the rank order.
- 24. The system moves to the next round or to the end of the game. [Use Case Ends]

#### **Alternative Flows:**

Alternative 1: No dominoes left in the deck.

- 1. The system informs the players that this is the last round of the game.
- 2. Flow resumes at main success step 10.

Alternative 2: There is no suitable spot available for the domino.

- 1. The system informs the player that there is no suitable spot for the domino claimed by the player in the previous round.
- 2. The system discards the domino.
- 3. Flow resumes at main success step 17.

Alternative 3: The chosen spot is not suitable.

- 1. The system informs the user that the selected spot is not suitable.
- 2. Flow resumes at main success step 13.

Alternative 4: It is the last round

1. Flow resumes at main success scenario step 23.

Alternative 5: The domino has already been selected.

- 1. The system informs the user that they need to select a different domino.
- 2. Flow resumes at main success scenario step 17.

# **Exceptions**:

None

# **Special Requirements:**

• No specific special requirements for this use case.

# **Open Issues:**

• Will all the kingdoms be visible at all times during the round or only the kingdom of the player who is currently taking their turn?