UI Logic

boolean values:

hasRolled

hasConfirmedRoll

// if we have rolled and not confirmed, we only care about confirming the roll

hasRedeemed

hasConfirmedRedeem

// if we have redeemed and not confirmed, we only care about confirming the redeem

// Clickables

Roll Button

diceHandler

confirmDieSelectedButton

largeQueue

redeemButton

handGroup

confirm Cancel Hand List

End Turn Button

//Non-Clickables

QPromptBox

finishedRedeemBox

// total methods

Render RollButton

isWithinBound RollButton

Render DiceHandler

isWithinBound DiceHandler

Render confirmDieSelectedButton

isWithinBound confirmDieSelectedButton

Render largeQueue

isWithinBound largeQueue

Render redeemButton

isWithinBound redeemButton

Render handGroup

isWithinBound handGroup

Render confirmCancelHandList

isWithinBound confirmCancelHandList

Render EndTurnButton

isWithinBound EndTurnButton

Render QPromptBox

Render finishedRedeemBox

- 1. !hasRolled && !hasRedeemed
- 2. hasRolled && !hasConfirmedRoll && !hasRedeemed
- 3. hasConfirmedRoll && !hasRedeemed
- 4. hasConfirmedRoll && hasRedeemed &&!hasConfirmedRedeem

```
5. hasConfirmedRoll && hasConfirmedRedeem
// !hasRolled && !hasRedeemed
6. !hasRolled && hasRedeemed && !hasConfirmedRedeem
7. !hasRolled && hasConfirmedRedeem
8. hasRolled && !hasConfirmedRoll && hasConfirmedRedeem
if(!hasRolled && !hasRedeemed)
      Render RollButton
      isWithinBound RollButton
      Render DiceHandler
      // isWithinBound DiceHandler
      // Render confirmDieSelectedButton
      // isWithinBound confirmDieSelectedButton
      Render largeQueue
      isWithinBound largeQueue
      if(selectedLargeQueue values form a hand)
             Render redeemButton
            isWithinBound redeemButton
      // Render handGroup
      // isWithinBound handGroup
      // Render confirmCancelHandList
      // isWithinBound confirmCancelHandList
      // Render EndTurnButton
      // isWithinBound EndTurnButton
      Render QPromptBox
      // Render finishedRedeemBox
      // transitions
      if(isWithinBound RollButton)
            hasRolled = true;
      if(isWithinBound RedeemButton)
            hasRedeemed = true;
}
2.
else if(hasRolled && !hasConfirmedRoll && !hasRedeemed)
      // Render RollButton
      // isWithinBound RollButton
      Render DiceHandler
      isWithinBound DiceHandler
      if(DieSelected!= 0)
```

```
{
             Render confirmDieSelectedButton
             isWithinBound confirmDieSelectedButton
             // if selected == 1, run confirmDieSelected(die1, die2)
             // if selected == 2, run confirmDieSelected(die2, die1)
      Render largeQueue
      isWithinBound largeQueue
      // Render redeemButton
      // isWithinBound redeemButton
      // Render handGroup
      // isWithinBound handGroup
      // Render confirmCancelHandList
      // isWithinBound confirmCancelHandList
      // Render EndTurnButton
      // isWithinBound EndTurnButton
      Render QPromptBox
      // Render finishedRedeemBox
      // transitions
      if(isWithinBound confirmDieSelectedButton)
             hasConfirmedRoll = true;
}
3.
else if(hasConfirmedRoll && !hasRedeemed)
      // Render RollButton
      // isWithinBound RollButton
      Render DiceHandler
      // isWithinBound DiceHandler
      // Render confirmDieSelectedButton
      // isWithinBound confirmDieSelectedButton
      Render largeQueue
      isWithinBound largeQueue
      if(selectedLargeQueue values form a hand)
       {
             Render redeemButton
             isWithinBound redeemButton
      // Render handGroup
      // isWithinBound handGroup
      // Render confirmCancelHandList
      // isWithinBound confirmCancelHandList
      Render EndTurnButton
      isWithinBound EndTurnButton
```

```
Render QPromptBox
      // Render finishedRedeemBox
      // transitions
      if(isWithinBound redeemButton)
             hasRedeemed = true;
      if(isWithinBound endTurnButton)
             endTurn:
}
else if(hasConfirmedRoll && hasRedeemed && !hasConfirmedRedeem)
      // Render RollButton
      // isWithinBound RollButton
      Render DiceHandler
      // isWithinBound DiceHandler
      // Render confirmDieSelectedButton
      // isWithinBound confirmDieSelectedButton
      Render largeQueue
      // isWithinBound largeQueue
      // Render redeemButton
      // isWithinBound redeemButton
      Render handGroup
      isWithinBound handGroup
      if(all selectionLists of HandGroup have a selection)
             Render confirmCancelHandList
             isWithinBound confirmCancelHandList
      // Render EndTurnButton
      // isWithinBound EndTurnButton
      Render QPromptBox
      // Render finishedRedeemBox
      // transitions
      if(isWithinBound confirmCancelList Selected is Confirm)
             hasConfirmedRedeem = true;
      if(isWithinBound confirmCancelList Selected is Cancel)
             hasRedeemed = false;
}
else if (hasConfirmedRoll && hasConfirmedRedeem)
      // Render RollButton
```

```
// isWithinBound RollButton
      Render DiceHandler
      // isWithinBound DiceHandler
      // Render confirmDieSelectedButton
      // isWithinBound confirmDieSelectedButton
      // Render largeQueue
      // isWithinBound largeQueue
      // Render redeemButton
      // isWithinBound redeemButton
      // Render handGroup
      // isWithinBound handGroup
      // Render confirmCancelHandList
      // isWithinBound confirmCancelHandList
      Render EndTurnButton
      isWithinBound EndTurnButton
      // Render QPromptBox
      Render finishedRedeemBox
      // transitions
      if(isWithinBound endTurn)
             EndTurn;
}
6.
else if(!hasRolled && hasRedeemed && !hasConfirmedRedeem)
      // Render RollButton
      // isWithinBound RollButton
      Render DiceHandler
      // isWithinBound DiceHandler
      // Render confirmDieSelectedButton
      // isWithinBound confirmDieSelectedButton
      Render largeQueue
      // isWithinBound largeQueue
      // Render redeemButton
      // isWithinBound redeemButton
      Render handGroup
      isWithinBound handGroup
      if(all handGroup lists have a selection)
      {
             Render confirmCancelHandList
             isWithinBound confirmCancelHandList
      // Render EndTurnButton
      // isWithinBound EndTurnButton
      Render QPromptBox
```

```
// Render finishedRedeemBox
      // transitions
      if(isWithinBound confirmCancelHandList is confirm)
             hasConfirmedRedeem = true:
      if(isWithinBound confirmCancelHandList)
             hasRedeemed = false;
}
7.
else if(!hasRolled && hasConfirmedRedeem)
      Render RollButton
      isWithinBound RollButton
      Render DiceHandler
      // isWithinBound DiceHandler
      // Render confirmDieSelectedButton
      // isWithinBound confirmDieSelectedButton
      // Render largeQueue
      // isWithinBound largeQueue
      // Render redeemButton
      // isWithinBound redeemButton
      // Render handGroup
      // isWithinBound handGroup
      // Render confirmCancelHandList
      // isWithinBound confirmCancelHandList
      // Render EndTurnButton
      // isWithinBound EndTurnButton
      // Render QPromptBox
      Render finishedRedeemBox
      // transition
      if(isWithinBound rollButton)
             hasRolled = true;
}
else if (hasRolled && !hasConfirmedRoll && hasConfirmedRedeem)
      // Render RollButton
      // isWithinBound RollButton
      Render DiceHandler
      isWithinBound DiceHandler
      if(die Selected != 0)
```

```
Render confirmDieSelectedButton
       is Within Bound\ confirm Die Selected Button
// Render largeQueue
// isWithinBound largeQueue
// Render redeemButton
// isWithinBound redeemButton
// Render handGroup
// isWithinBound handGroup
// Render confirmCancelHandList
// isWithinBound confirmCancelHandList
// Render EndTurnButton
// isWithinBound EndTurnButton
// Render QPromptBox
Render finishedRedeemBox
// transition
if(isWithinBound confirmDieSelectedButton)
       hasConfirmedRoll = true;
```

}