Random Generator SC

UTXO
Value: 2 ADA + NFT_Random
Datum: Random Number

Minting Policy

Purpose :   Minting NFT_Bet that holds Bet Info
                 (Token Name is the Bet Info Hash)

Bet Info :   Player's Bet
                 NFT_Game Reference
                 Session Number

Utility: Used by the Redeeming SC to verify Bet Info.

*NFT_Bet is like a Lottery ticket

Betting SC

UTXO
Value: Jackpot + NFT_Game
Datum: Deadline,
             LockingPeriod,
             NFT_Random Reference,
             Session Number

Redeeming SC

UTXO
Value: Jackpot
Datum: Random Number (Fixed)
             NFT_Game Reference
             Session Number

Random Generator SC

UTXO Value: 2 ADA + NFT_Random
Datum: Random Number

New Datum

Minting Policy

Purpose : Minting NFT_Bet that holds Bet Info
(Token Name is the Bet Info Hash)

Bet Info : Player's Bet
NFT_Game Reference
Session Number

Utility: Used by the Redeeming SC to verify Bet Info.

*NFT_Bet is like a Lottery ticket

Player

+ NFT_Bet

- 100 ADA
- Fees

Betting Tx.

+ 100 ADA

Betting SC

UTXO Value: Jackpot + NFT_Game
Datum: Deadline,
LockingPeriod,
NFT_Random Reference,
Session Number

UTXO 🔒

Redeeming SC

UTXO Value: Jackpot
Datum: Random Number (Fixed)
NFT_Game Reference
Session Number

Random Generator SC

UTXO
Value: 2 ADA + NFT_Random
Datum: Random Number

New Datum

Minting Policy

Purpose : Minting NFT_Bet that holds Bet Info
(Token Name is the Bet Info Hash)

Bet Info : Player's Bet
NFT_Game Reference
Session Number

Utility: Used by the Redeeming SC to verify Bet Info.

*NFT_Bet is like a Lottery ticket

Player

+ NFT_Bet

- 100 ADA
- Fees

Betting Tx. (2)

Betting SC

UTXO
Value: 100 ADA + NFT_Game
Datum: Deadline (New) ,
LockingPeriod (Same),
NFT_Random Reference (Same),
Session Number (old + 2)

UTXO 🔒

Jackpot

NFT_Game

Redeeming SC

UTXO
Value: Jackpot
Datum: Random Number (Fixed)
NFT_Game Reference
Session Number

Random Generator SC

UTXO Value: 2 ADA + NFT_Random
Datum: Random Number

Minting Policy

Purpose :   Minting NFT_Bet that holds Bet Info
(Token Name is the Bet Info Hash)

Bet Info :   Player's Bet
NFT_Game Reference
Session Number

Utility: Used by the Redeeming SC to verify Bet Info.
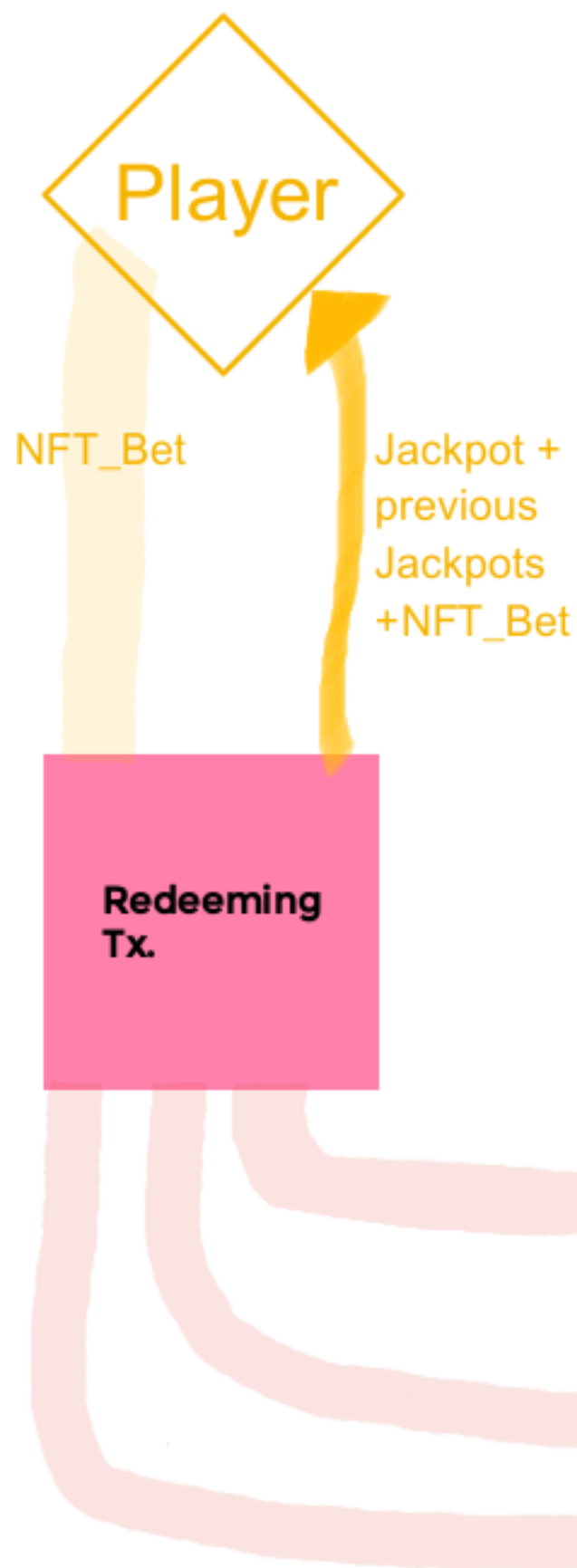
*NFT_Bet is like a Lottery ticket

Player

NFT_Bet

Jackpot +
previous
Jackpots
+NFT_Bet

Redeeming Tx.

Betting SC

UTXO Value: Jackpot + NFT_Game
Datum: Deadline,
LockingPeriod,
NFT_Random Reference,
Session Number

Redeeming SC

UTXO Value: Jackpot
Datum: Random Number (Fixed)
NFT_Game Reference
Session Number

- -

UTXO Previous Un-redeemed UTXOs
UTXO (Same NFT_Game Reference)

UTXO Lifecycle

Betting	Deadline	Locked	Maturity	Redeemable

	Deadline	Betting	Maturity	Locked

Deadline	Betting