We have got inner classes which is an input class, origin of the coin has three attributes, hash of transaction, index of coin in that transaction’s output, digital signature.

For transaction to be valid its signatures are required to be valid over the current transaction. We obtain the transaction raw data from getRawDataToSign(), VerifySignature() is to verify the signature. It returns true if the sign gets verified correctly over the public key.

Transaction output indicates where the coin is goUTing, this consists of value of coin, public key where the coin is being paid.

UTXO(Unspent transaction output class) contains the hash of the transaction from which it gets originated, along with that it has the index within that transaction’s output.

Functions that are included in the UTXo are equals, hashcode and compareTo function in UTXO that allow the testing of the equality and the comparison between the two UTXOs is made using their indices and contents of their tx hash array.

UTXO pool is the current set of outstanding ledgers maps from each utxo to transaction output.

MaxfeeHandler provides the set of possible transactions that are legitimate and have max total fee for all the transactions put together.

References:-

https://medium.com/@zhaohuabing/scrooge-coin-c1d1d1e9fd00