| **House** |
| --- |
| + setOracleAddress(\_oracleAddress)  + getOracleAddress()  + testOracleConnection()  + \_betIsValid(​​\_user, \_matchId, \_betType, \_betItem)  + \_matchOpenForBetting(\_matchId)  + getBettableMatches()  + getAllMatches()  + getMatch(\_matchId)  + getUserBets()  + getMostRecentMatch()  + getUserBet(\_matchId)  + placeBet(\_matchId, \_betType, \_betItem) |

| **Bet5050** |
| --- |
| + \_payOutWinnings(\_user, \_amount)  + \_transferToHouse()  + \_isWinningBet(\_status, \_chosenWinner, \_actualWinner)  + \_calculatePayout(\_winningTotal, \_totalPot, \_betAmount)  + \_payOutForMatchWinner(\_matchId, \_status, \_winner)  + \_payOutForMatchFirstScorer(\_matchId, \_status, \_firstScorer)  + \_payOutForMatchScoreline(\_matchId, \_status, \_scoreline)  + checkOutcome(\_matchId) |

| **Oracle** |
| --- |
| + \_getMatchIndex(\_matchId)  + matchExists(\_matchId)  + addMatch(\_matchName, \_players, \_startTime, \_endTime)  + setMatchUnderway(\_matchId)  + setMatchCancelled(\_matchId)  + declareOutcome(\_matchId, \_outcome, \_winner, \_firstScorer, \_scoreline)  + getPendingMatches()  + getAllMatches()  + getMatch(\_matchId)  + getMostRecentMatch(\_pending)  + testConnection()  + getAddress()  + ​​addTest()  + getOwner() |

| **OracleInterface** |
| --- |
| + MatchOutcome  + getPendingMatches()  + getAllMatches()  + matchExists(matchId)  + getMatch(matchId)  + getMostRecentMatch()  + testConnection()  + addTestData() |

| **SportsBets** |
| --- |
| - OracleAddr  - Oracle  - minimumBet  + userToBets  + matchToBets  + matchPaidOut |
| + getBT(amt)  - transferBT()  + sendToken(betId)  + placeBet(tokenAmt, betId, betOption)  + withdrawBet(betId)  + betIsValid(betId)  + matchOpenForBetting(matchId)  + setOracleAddress()  + getBettableMatches()  + getMatches(matchId)  + getMostRecentMatch()  + getBettorList(betId)  + getBettorListLength(betId)  + getBettorBet(bettorId, betId)  + getTokenBalance()  + getBetAmount(betId) |

| **BetPayout** |
| --- |
| + housePercentage |
| + payOutWinnings()  + transferToHouse()  + isWinningBet()  + calculatePayout()  + payOutForMatch()  + checkOutcome() |

getTokenBalance()

