Bank

resourseDeck: HashMap<ResourceType, Integer> developmentCards: ArrayList<DevelopmentCards>

canBuyDevelopmentCard()

Hex

resource: ResourceType

location: Point number: int

Player

name: String color: CatanColor playerIndex: int

developmentCardPlayed : boolean

victoryPoints : int

resourceHand: HashMap<ResourceType, Integer> playableDevCardHand : HashMap<DevCardType, Integer> unplayableDevCardHand : HashMap<DevCardType, Integer>

piecesAvailable: HashMap<PieceType, Integer>

canPlaceCity()

canPlaceSettlement() canPlaceRoad()

canBuyDevelopmentCard

canTradeWithPlayer(playerId : int)

canTradeWithBank()

canPlayDevelopmentCard(type : DevelopmentCardType)

canRollDice()

canSendMessage(message: String)

canEndTurn()

ModelUpdater

updateModel(json: json) updateBank(json: json) updatePlayer(json: json) updateGame(json: json)

MessageList

messages:ArrayList<String>

updateMap(json: json)

Trade Offer

Robber

location : HexLocation

sender : int receiver : int

offer: HashMap<ResourceType, Integer>

int getSender()

void setSender(int sender)

int getReceiver()

void setReceiver(int receiver)

HashMap<ResourceType, Integer> getOffer() void setOffer(HashMap<ResourceType, Integer> offer)

hexList: ArravList<Hex>

Game

Port

resource: ResourceType

direction : VertexDirection

location : HexLocation

playerList : ArrayList<Player>

theMap : Map

currentTurnIndex: int

canCreateUser() canAuthenticateUser()

ratio : int

turnTracker: TurnTracker log: MessageList chat: MessageList winner : String

bank: Bank

radius: int portList : List<Port>

canGetRolledResourses(diceRoll

Мар

: int, playerId : int)

City

location: VertexLocation

Settlement

location: VertexLocation

Road

location: EdgeLocation

DevCard

type: DevCardType holder: Player

Turn Tracker

status: GameStatus currentTurn: int

longestRoad: DevCard largestArmy;: DevCard

InvalidOptionException