Client Environment Model Diagram

<<enumeration>> Request_name

> -finalStatus - pause - pauseOver

> > - backup

- request (re: request name)

- checkMessage(m: message)

- playerLeavingServer(idg: Game ID)

- changeSettings(s: Settings, v: Value)

- cancelModificationRequest()

- canPlayerLeaveGame()

- initializeNewGame()

- nextPlayerAck()

- nextTurnAck()

- nextRoundAck()

- sendPlayersStatus()

- messageBroadcasted()

messagesNotBroadcasted()

requestReceived()

- gamePaused()

- gameResumed()

- gameCantBePaused

gameBackupReady()

- gameBackupNotPossible()

- settingsChangedAck()

- modificationCanceledAck()

- playerCanLeaveGameAck()

playerCanNotLeaveGameAck()

- leaveGameServerAck()

- initializeNewGameAck()

nextPlayer(p: Player)

nextTurn(t: TurnType)

- nextRound(Integer:

currentRound)

positionCharacterRequest(r:Actionequest)

chooseCardRequest(r:ActionRequest)

normalWhiskeyRequest(r:ActionRequest)

oldWhiskeyRequest(r:ActionRequest)

- ActionCardRequest(r:ActionRequest)

- validateChosenMove(p: Position)

validateChosenRideMove(p: Position)

- validateChosenRobberyLoot(I: Loot)

- validateChosenBanditFire(b: Bandit)

- validateChosenCharacterPunch(pc:

PunchableCharacter)

- validateChosenMarshalMove(p: Position)

- validateChosenHostage(h: Hostage)

:Client System

<<time-triggered>> Timer

- characterCabin(c: Position) -stateChange(p:Phase1Action)

- positionCharacterInvalid(s: String)

- normalWhiskeyUsed(m:String)

- normalWhiskeyInvalid(s: String)

playerChoosedCard(m: String)

- oldWhiskeyUsed(m: String)

- oldWhiskeyInvalid(s: String)

ActionCardDistributed(m:String)

- promptMoveOptions(ps: Set{Position})

- promptRideOptions(ps: Set{Position})

- promptRobberyOptions(I: Set{Loot})

- promptFireOptions(bs: Set{Bandit})

- promptPunchOptions(bs: Set{Bandit})

promptMarshalMoveOptions(ps: Set{Position})

- promptHostageOptions(hs: Set{Hostage})

- refreshGameState(pa: Phase2Action)

- invalidRequest_e(m: String)

- displayRules()

goToPreviousWindow()

- readRule() - getCharacterInfo() - goBack()

- signIn(idp: Player ID, psw: Password)

- changeSettings()

- modifySettings(s: Settings; v: Value)

- cancelModification()

- sendChat (m: message)

- createGame()

- newLobbyInfoAck(n: name, mx:

Maximum Player, mn: Minimum Player)

- chooseGame()

- chosenGameAck(idg: Game ID)

- startGame()

- loadGame()

- chosenSavedGameAck(idg: Game ID)

- openMenu()

- closeMenu()

- callAPause()

- pauselsOver()

- saveGame()

- specifyBackupLocation()

- quitGame()

- leavingGameAck()

- displayCharacterInfo()

- signInSucceded()

incorrectCredentials() - displaySettings()

displayChat(m: message)

displayGameToChoose()

- needMorePlayers()

- chooseName()

- chooseMinPlayer()

- chooseMaxPlayer()

startColtExpress()

- displaySavedGames()

- displayMenu()

- gamePaused()

- pauselsOver()

- gameSuccessfullySaved()

leavingGameConfirmation()

- closeApplicationConfirmation()

- requestAction()

:GUI

notLeavingGameAck

- closeProgram()

- closeApplicationAck()

notCloseApplicationAck()

-backToLobbvAck()

startPhaseOne(g:Game)

positionCharacter(c:Position)

- doAction(a:Phase1Action)

- chooseCard(c:Player)

- useNormalWhiskey(w:Player)

- useOldWhiskey(w:Player)

pickThreeActionCard(p:Player)

- Time-triggered: timer()

- chosenMove(p: Position)

- chosenRideMove(p: Position)

- chosenRobberyLoot(I: Loot)

- chosenBanditFire(b: Bandit)

- chosenCharacterPunch(b: Bandit)

- chosenMarshalMove(p: Position)

- chosenHostage(h: Hostage)

- randomHostage(h: Hostage)

- randomAction()

- positionYourCharacter()

- positionCharacterFail(s:String)

- currentRoundCard(s:Game)

- currentTurn(t:Game)

distributeCard(c:Player)

- currentPosition(c:Position)

- moveCard(c:Player)

- returnThreeCard(c: Player)

- chooseCardFail(s:String)

- normalWhiskeyFail(s:String)

- oldWhiskeyFail(s:String)

pickThreeCardFail(s:String)

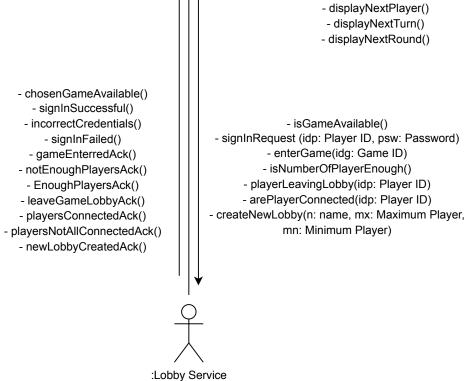
- displayMoveOptions(ps: Set{Position}) - displayRideOptions(ps: Set{Position})

- displayRobberyOptions(I: Set{Loot})

- displayFireOptions(bs: Set{Bandit})

- displayPunchOptions(bs: Set{Bandit})





- networkConnectionFailure()

- displayResult()- goBackToLobby()

- displayMarshalMoveOptions(ps: Set{Position})

- displayHostageOptions(hs: Set{Hostage})- refreshGameState(pa: Phase2Action)