



ImportFileException

MovingFileRecognitionException

UnwritableFileNotFoundException

UnrecognizedEntryException

In the seq above, class
method numbers as well as
getters and setters have
been omitted. All classes
except NetworkException
implement Serializable.

The class ModificationManager
was omitted too because it
doesn't have any direct
relation with any other
class.

Exception

<< abstract >>
Terminal

- id: String
- isOn: boolean
- state: TerminalState
- client: Client
- consecutiveNotification: boolean
- paymentList: double []
- debts: double []
- friendList: Terminal []

- + addPayment (payment: double): void
- + performPayment (): void
- + addDebt (debt: double): void
- + addFriend (friend: Terminal): void
- + removeFriend (): void
- + showIncomingCommunications (): void
- + showTerminalDebts (): void
- + silenceTerminal (): void
- + turnOffTerminal (): void
- + controlElementCommunication (): boolean
- + receiveData (o): void

<< abstract >>
WaitState

- + constOrCommunication (): boolean
- + consecutiveTextRange (): boolean
- + consecutiveInteractiveCommunication (): boolean
- + changeTerminalState (): void

<< abstract >>
SerialTerminal

- + startVoiceCommunication
(commId: int, destinationTerminal: Terminal): void
- + endVoiceCommunication (): void
- + startTextCommunication
(commId: int, destinationTerminal: Terminal)

EmergencyTerminal

- + startVideoCommunication
(commId: int, destinationTerminal: Terminal): void
- + endVideoCommunication (): void

<< interface >>
TerminalState

- + constOrCommunication (): boolean
- + consecutiveTextRange (): boolean
- + consecutiveInteractiveCommunication (): boolean
- + changeTerminalState (): void

RunState

- + constOrCommunication (): boolean
- + consecutiveTextRange (): boolean
- + consecutiveInteractiveCommunication (): boolean
- + changeTerminalState (): void

effstate

+ constantCommunication (): boolean
+ continuousMessage (): boolean
+ continuousInteractiveCommunication (): boolean
+ changeTerminalState (): void

<< abstract >> +
- TariffPlan

- clientType: ClientType
- name: String

+ << abstract >> +
getCommunicationCost (comm: Communication): double

BasicTariffPlan

+ getCommunicationCost (comm: Communication): double

Client

- id: String
- name: String
- txId: int
- clientType: ClientType
- debts: double []
- paymentsMade: double []
- tariffPlan: TariffPlan
+ getClientBalance (): double
+ getSumOfPayments (): double
+ getTotalDebt (): double
+ addNotification (notificationMessage: String): void
+ addPaymentMade (payment: double): void
+ payDebt (debt: double): void
+ addDebt (debt: double): void

Notification

- notificationType: NotificationType
- triedToConnectTerminal: Terminal
+ sendNotification (): void

<< enumeration >> NotificationType

SMS
MAIL
EMAIL

NotificationMessages

+ << final >> CAN_RECEI
VE-TEXT: String
+ << final >> CAN_RECEI
VE-COMMUNICATI
ON: String

<< enumeration >> ClientType

NORMAL
GOLD
PLATINUM

`<< Street >>`

communication

- id: int
- cost: double
- commState: communicationState
- sourceTerminal: Terminal
- destinationTerminal: Terminal

+ getTerminalFriends(): boolean

`<< enumeration >>`

communicationState

UNGOING

FINE SHED

`<< Interac-`

InteractiveCommunication

- average

value

- communicationRunTime: double

VoiceCommunication

VideoCommunication

TextCommunication

- messageSent: string

+ getMessageSent():
int

Network

+ setCommunicationId : int

- importFile (filename: String) : void

+ showGlobalBalance () : void

+ disableClientNotifications (clientId: String) : void

+ enableClientNotifications (clientId: String) : void

+ registerClient (clientId: String, txtIdNum: int, name: String) : void

+ showAllClients () : void

+ showClient (clientId: String) : void

+ showClientSegmentsAndDebts (clientId: String) : void

+ showAllCommunications () : void

+ showClientsWithDebts () : void

+ showClientsWithoutDebts () : void

+ showClientCommunicationsFromClient (clientId: String) : void

+ showClientCommunicationToClient (clientId: String) : void

+ showTerminalsWithLowestBalance () : void

+ showAllTerminals () : void

+ openClientCommunication (terminalId: String) : void

+ registerTerminal (terminalId: String, terminalType: String, clientId: String)

+ showAllTerminals () : void

NetworkManager

- network: Network

+ load (filename: String) : void

+ save () : void

+ networks (filename: String) : void

+ importFile (filename: String) : void

+ openFile (filename: String) : void

+ openClient (clientId: String) : void

+ generateReceipts () : void

+ openTerminal (terminalId: String) : void

+ saveFile (filename: String) : void

+ saveTerminal (terminalId: String) : void

+ saveNetwork (filename: String) : void

Declaro por minha honra
que este documento foi
redigido apenas pelos
elementos que constituem
o grupo de projeto.
Pedro Almeida