



Grupo 132 { IST 1104165
IST 1102430

Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo do projeto. *Somén Teixeira*
Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo do projeto. *Miguel Coelho*

NetworkManager
-network: Network
+ load(filename: String): void
+ save(): void
+ saveAs(filename: String): void
+ importFile(filename: String): void

<<abstract>> Plan
-name: String
+ calculateCost(comm: Communication): long

BasePlan

<abstract>> Communication
-key: int
-sender: Terminal
-receiver: Terminal
-units: long
-price: long
-status: String

<<abstract>> ClientType
-name: String
NormalClientType

Notification
-message: String
-medium: String

GoldClientType

PlatinumClientType

Network
-clients: Client[]
-lastCommKey: int
+ importFile(filename: String): void
+ getGlobalBalance(): long
+ incrementLastCommKey(): void
+ getCommsFromClient(key: String): Communication[]
+ getCommToClient(key: String): Communication[]
+ getClientWithDebt(): Client[]
+ getClientsWithNoDebt(): Client[]
+ getUnusedTerminals(): Terminal[]
+ getTerminalWithPositiveBalance(): Terminal[]
+ showAllTerminals(): void
+ registerTerminal(terminalKey: String, type: String, clientKey: String): void
+ openTerminalMenu(key: String): void
+ showClient(key: String): void
+ showAllClients(): void
+ registerClient(key: String, msg: String, taxID: String): void
+ addClientNotifications(key: String): void
+ deactivateClientNotifications(key: String): void
+ showClientPaymentsAndDebts(key: String): void

Client
-acceptsNotifications: boolean
-key: String
-name: String
-taxID: int
-clientType: ClientType
-notifications: Notification[]
-terminals: Terminal[]
-payments: long
-debts: long
-plan: Plan
-notificationReceptionMedium: String
+ getClientBalance(): long
+ getCommsFromClient(): Communication[]
+ getCommToClient(): Communication[]
+ getAllCommCosts(): long
+ appendCostToArray(commCost: long): void
+ getClientPayments(): long
+ getClientDebts(): long

<<abstract>> Terminal
-key: String
-type: String
-client: Client
-friends: Terminal[]
-status: String
-payments: long
-debts: long
+ canEndCurrentCommunication(): boolean
+ canStartCommunication(): boolean
+ getTerminalBalance(): long
+ addFriend(key: String): void
+ removeFriend(key: String): void
+ setToIdle(): void
+ setToSilence(): void
+ turnOff(): void
+ executePayment(key: int): void
+ showPaymentsAndDebts(): void
+ startTestComm(key: String, msg: String): void
+ startInteractiveComm(key: String, type: String): void
+ endInteractiveComm(duration: long): void
+ showCurrentComm(): void

TestComm
-message: String

VoiceComm
-duration: long

VideoComm
-duration: long

FancyTerminal
+ startTestComm(comm: TestComm): void
+ startVoiceComm(comm: VoiceComm): void
+ startVideoComm(comm: VideoComm): void
+ endTestComm(comm: TestComm): void
+ endVoiceComm(comm: VoiceComm): void
+ endVideoComm(comm: VideoComm): void

BasicTerminal
+ startTestComm(comm: TestComm): void
+ startVoiceComm(comm: VoiceComm): void
+ endTestComm(comm: TestComm): void
+ endVoiceComm(comm: VoiceComm): void