UML for GUI: System initial menu

TradingSystemInitMenuGUI

- a1LoginButton: JButton
- panel1: JPanel a2LoginAsGuestButton: JButton
- a3CreateAccountButton: JButton
- exitButton: JButton

TradingSystemInitMenuGUI(guiDemo: GUIDemo): void

+ run(guiDemo: GUIDemo): void

LoginGUI

- rootPanel: JPanel
- usernameLabel: JLabel
- usernameText: JTextField
- passwordLabel: JLabel
- . passwordText: JPasswordField
- cancelButton: .1Button
- loginButton1: JButton
- + LoginGUI(loginValidator: LoginValidator, quiDemo: GUIDemo):
- + run(loginValidator: LoginValidator, guiDemo: GUIDemo): void -loginExecute(loginValidator: LoginValidator, quiDemo: GUIDemo):

RegularUserCreateAccountGUI

- rootPanel: JPanel
- usernameTextField: JTextField
- passwordField1: JPasswordField
- emailTextField: JTextField

void

- cancelButton: JButton
- createButton1: JButton
- comboBox1: JComboBox
- + RegularUserCreateAccountGUI(accountCreator:

AccountCreator, quiDemo: GUIDemo, systemMessage: SystemMessage, infoChecker

RegularUserOtherInfoChecker): void

- + run(accountCreator: AccountCreator, guiDemo: GUIDemo,
- systemMessage: SystemMessage, infoChecker RegularUserOtherInfoChecker): void
- createAccountExecute(infoChecker:
- RegularUserOtherInfoChecker, accountCreator:

AccountCreator, guiDemo: GUIDemo, systemMessage: SystemMessage): void

UML for GUI: Admin Main Menu

AdminUserMainMenuGUI

- rootPanel:JPanel
- topLabel:JLabel
- manageUserButton:JButton
- editThresholdsButton:JButton
- manageHistoricalActionsButton:JButton
- othersButton:JButton
- logoutButton: 1Button
- notificationButton:JButton
- + AdminUserMainMenuGUI(guiDemo: GUIDemo,
- adminPartOfNotification: String): void +run(guiDemo: GUIDemo, adminPartOfNotification: String): void

UML for GUI: Admin Submenus

AdminUserManageUsersSubMenu

- rootPanel:JPanel
- freezeUsersButton:JButton
- unfreezeUsersButton:JButton - confirmAndAddItemButton:JButton
- backButton:JButton
- + AdminUserManageUsersSubMenu(muc:

AdminUserManagerUserController, guiDemo: GUIDemo, sm: systemMessage, idc: RegularUserIDChecker, oic: AdminUserOtherInfoChecker): void

+ run(muc: AdminUserManagerUserController, guiDemo: GUIDemo, sm: systemMessage, idc: RegularUserIDChecker, oic:

AdminUserManagerUserWindow

AdminUserOtherInfoChecker): void

- rootPanel:JPanel
- listAllTheHistoricalButton:JButton
- cancelTheRevocableHistoricalButton:JButton
- findAllTheRevocableBvIDButton:JButton
- + AdminUserHistoricalActionsSubMenu(quiDemo: GUIDemo, sm:
- + runguiDemo: GUIDemo, sm: SystemMessage, hac:
- AdminUserHistoricalActionController): void-printObjects(actions:

AdminUserHistoricalActionsWindow

- textField:JTextField
- cancelButton:JButton
- confirmButton:JButton
- JLabel:JLabel

rootPanel:JPanel

- textPane1:JTextPane scrollPane:JScrollPane
- + AdminUserManagerUserWindow(option: int, guiDemo: GUIDemo, inputName: String, info: String, muc: AdminUserManagerUsersController): void+ run(option: int, guiDemo: GUIDemo, inputName: String, info: String, muc: AdminUserManagerUsersController): void

AdminUserManagerUsersConfirmInventoryWindow

- textPane1:JTextPane
- userInput:JTextField
- notApprovedRadioButton:JRadioButton
- approvedRadioButton:JRadioButton
- cancelButton:JButton
- confirmButton:JButton
- rootPanel:JPanel
- scrollPane:JScrollPane
- + AdminUserManagerUsersConfirmInventoryWindow(string: String, itemToAdd: ArrayLidt<Item>, muc: AdminUserManagerUsersController, guiDemo: GUIDemo, sm:
- systemMessage, idc: RegularUserIDChecker, oic: AdminUserOtherInfoChecker): void
- + run(string: String, itemToAdd: ArrayLidt<Item>, muc: AdminUserManagerUsersController, guiDemo: GUIDemo, sm: systemMessage, idc: RegularUserIDChecker, oic:

AdminUserOtherInfoChecker): void- confirmInventoryExecute(idc: RegularUserIDChecker, aic: AdminUserOtherInfoChecker, itemsToAdd: ArrayList<Item>, muc:

AdminUserManagerUsersController, guiDemo: GUIDemo, sm: SystemMessage): void

AdminUserHistoricalActionsSubMenu

- confirmUndoReguestButton:JButton
- backButton:JButton
- listAllTheRevocableButton:JButton
- SystemMessage, hac: AdminUserHistoricalActionController); void

ArravList<Action>. sm: systemMessage, guiDemo; GUIDemo); void

- rootPanel:JPanel
- textField:JTextField
- confirmButton:JButton
- cancelButton:JButton JLabel:javax.swing.JLabel
- scrollPane:JScrollPane
- textPane1:JTextPane
- AdminUserHistoricalActionsWindow(inputName: String, info: String, option: int, guiDemo: GUIDemo,

adminUserHistoricalActionController: AdminUserHistoricalActionController, systemMessage: SystemMessage): void

- historicalActionExcute(option: int,
- adminUserHistoricalActionController:
- AdminUserHistoricalActionController, systemMessage: SystemMessage, guiDemo: GUIDemo): void
- + run(inputName: String, info: String, option: int, guiDemo: GUIDemo, adminUserHistoricalActionController
- AdminUserHistoricalActionController, systemMessage: SystemMessage): void

AdminUserEditThresholdsSubMenu

- rootPanel:JPanel
- editTheMaxNumberButton:JButton editTheMaxNumberButton1:JButton
- editTheNumberOfButton:JButton
- editTheMaxEditsButton:JButton
- backButton:JButton

AdminUserEditThresholdsSubMenu(quiDemo: GUIDemo. adminUserEditThresholdsController:

AdminUserEditThresholdsController): void+ run(quiDemo: GUIDemo, adminUserEditThresholdsController

AdminUserEditThresholdsController): void

AdminUserEditUserThresholdsWindow

- rootPanel:JPanel
- textField:JTextField - Cancel:JButton
- confirmButton:JButton
- Jlabel:JLabel - infoLabel:JLabel
- + AdminUserEditUserThresholdsWindow(string: String, option: int, quiDemo: GUIDemo, adminUserEditThresholdsController:
- AdminUserEditThresholdsController): void - editUserExcute(option: int, guiDemo: GUIDemo,
- adminUserEditThresholdsController:
- AdminUserEditThresholdsController): void + run(string: String, option: int, guiDemo: GUIDemo,
- adminUserEditThresholdsController: AdminUserEditThresholdsController): void

AdminUserOtherSubMenuGUI

- rootPanel: JPanel
- · addNewAdminUserButton: JButton
- backButton:JButton setSvstemTimeButton:JButton
- + AdminUserOtherSubMenuGUI(quiDemo: GUIDemo,
- adminUserOtherActionsControllei AdminUserOtherActionsController): void
- + run(quiDemo: GUIDemo, adminUserOtherActionsController: AdminUserOtherActionsController): void

AdminUserSetTimeWindow

- rootPanel:JPanel
- JLabel:javax.swing.JLabel
- yearBox:JComboBox year:JLabel
- Month:JLabel monthBox:JComboBox
- dayBox:JComboBox cancelButton:JButton confirmButton:JButton
- + AdminUserSetTimeWindow(guiDemo:

AdminUserOtherActionsController): void

- GUIDemo,adminUserOtherActionsController: AdminUserOtherActionsController): void
- setSystemTimeExecute(adminUserOtherActionsController: adminUserOtherActionsController, guiDemo: GUIDemo): void + run(guiDemo: GUIDemo, adminUserOtherActionsController:

AdminUserCreateAccountGUI

- rootPanel:JPanel
- usernameTextField:JTextField passwordField1:JPasswordField
- cancelButton:JButton
- createButton1:JButton
- + AdminUserCreateAccountGUI(accountCreator: AccountCreator, guiDemo: GUIDemo, systemMesssage: SystemMseeage, adminUserOtherActionsController: AdminUserOtherActionsController): void + run(accountCreator: AccountCreator, guiDemo: GUIDemo, systemMesssage: SystemMseeage, adminUserOtherActionsController

AdminUserOtherActionsController): void