



Application

+ API_KEY_FILE_NAME:String
+ myApiKey:String
+ rootUrl:String

+ main(String[] args):void

AuthenticationView

+ panel:Jpanel
+ userLabel:JLabel
+ userText:JTextField
+ passwordLabel:JLabel
+ passwordText:JPasswordField
+ loginButton:JButton
- PREFERRED_SIZE:Dimension
- MAX_INPUT_LENGTH:int

+ AuthenticationView(Display display)
- placeComponents():void
+ getUsername():String
+ getPassword():String

ContractDurationFrame

- three:JRadioButtonMenuItem
- six:JRadioButtonMenuItem
- twelve:JRadioButtonMenuItem
- twtyfour:JRadioButtonMenuItem
- longer:JRadioButtonMenuItem
- longerduration:JTextField
- duration:ButtonGroup
- selectedDuration:int

+ ContractDurationFrame()
+ show():void
- reload():void
+ getselecteddduration():int
- isNumeric(String s):Boolean
+ getDuration():int

Controller

Display

- frame:JFrame
+ FRAME_WIDTH:int
+ FRAME_HEIGHT:int

+ Display()
+ createPanel(JComponent panel):void
+ setVisible():void
+ removePanel(JComponent panel):void
+ closeWindow():void

NearExpiryContractFrame

+ contracts:List<Contract>

+ NearExpiryContractFrame(List<Contract> contracts)
+ show():void

<<interface>>
MessageView

+ getLogArea(List<String> messageLog)
+ getChatBox()

HomeView

- user:User
+ panel:Jpanel
+ studentButton:JButton
+ tutorButton:JButton
+ logout:JButton

+ HomeView(Display display, User user)
- placeComponents():void

NotificationFrame

- message:String

+ NotificationFrame(String message)
+ show():void

<<interface>>
NavigationPane

+ showNavigationPane(Display display, JPanel parent, JButton[] buttons):void

<<interface>>
MouseClickedListener

+ mousePressed(MouseEvent e):void
+ mouseReleased(MouseEvent e):void
+ mouseEntered(MouseEvent e):void
+ mouseExited(MouseEvent e) :void

Utils

- mapper:ObjectMapper
+ format:SimpleDateFormat
+ SUCCESS_CONTRACT_CREATION:NotificationFrame
+ SUCCESS_BID_CREATION:NotificationFrame
+ INSUFFICIENT_COMPETENCY:NotificationFrame
+ SUCCESS_MATCH_REQUEST:NotificationFrame
+ PLEASE_FILL_IN:NotificationFrame
+ INVALID_FIELDS:NotificationFrame
+ REACHED_CONTRACT_LIMIT:NotificationFrame
+ CONTRACT_SIGNED:NotificationFrame
+ OTHER_PARTY_PENDING:NotificationFrame
+ INVALID_USER:NotificationFrame
+ CANNOT_CREATE_BID:NotificationFrame
+ CANNOT_MODIFY_BID:NotificationFrame

+ formatDate(String datetime):Date

<<abstract>>
View

- display:Display
- homeButton:JButton
+ activePanel:RemovablePanel

+ View(Display display)
+ display():void
- createPanel(LayoutManager layout:JPanel
- createPanel():JPanel
- placeComponents():void
- setSwitchPanelListener(RemovablePanel panel, Component comp, View newView):void
+ mouseClicked(MouseEvent e):void
- setSwitchPanelListener(JPanel main, Component comp, RemovablePanel newPanel):void
+ mouseClicked(MouseEvent e):void
- addMouseListener(JComponent component, MouseClickListener listener):void

RemovablePanel

+ RemovablePanel()
+ RemovablePanel(LayoutManager layout)
+ onRemoved():void
+ onAttached():void

<<interface>>
Observer

+ update(EventType e):void

ContractReuse

StudentAllBids

ReviseContractTerm

CreateSameTutorContract

StudentAllContracts

StudentResponseView

StudentMessageView

StudentView

CreateRequest

TutorMonitorView

TutorResponseView

CreateBid

TutorAllContracts

TutorView

TutorAllBids

TutorMessageView