## Controller View Assig6 "HUMAN\_PLAYER: int MAX\_IMAGES\_IN\_DECK: int +Assig6() ~COMPUTER\_PLAYER: int -HUMAN\_PLAYER: int Timer +main(String[]):void -COMPUTER\_PLAYER: int +Controller(Model, View) ~Timer() -NUM\_CARD\_STACKS: int +init():void +run():void -NUM\_CARDS\_PER\_HAND: int -computerTurn():void **GUICard** +doNothing(int):void -NUM\_PLAYERS: int -checkGameState():void -iconCards: lcon[][] -addToStackLabel: JLabel[] +actionPerformed(ActionEvent):void -iconBack: Icon -cantPlayButton: JButton +mousePressed(MouseEvent):void ~iconsLoaded: boolean -startTimerButton: JButton +mouseEntered(MouseEvent):void -computerHandLabels: JLabel[] ~GUICard() +mouseExited(MouseEvent):void -playerHandButtons: JButton[] ~loadCardlcons():void +mouseClicked(MouseEvent):void -playerScoreLabels: JLabel[] +geticon(Card):lcon +mouseReleased(MouseEvent):void -deckLabel: JLabel[] +getBackCardlcon():lcon deckCountLabel: JLabel -turnIntIntoCardValue(int):String t Thread -turnIntIntoCardSuit(int):String -clockRun: boolean -valueAsInt(Card):int date: SimpleDateFormat -suitAsInt(Card):int Model -clockCounter: long CardTable ~NUM\_CARDS\_PER\_HAND: int -clock: JLabel serialVersionUID: long ~NUM\_PLAYERS: int +View() -MAX\_CARDS\_PER\_HAND: int ~NUM\_CARD\_STACKS: int +addController(Controller):void ~MAX\_PLAYERS: int ~HUMAN\_PLAYER: int +loadEndGamePrompt(int[]):int numCardsPerHand: int ~COMPUTER\_PLAYER: int +setVisible(boolean):void numPlayers: int -playerScores: int[] +setDecklmage(lcon):void +pnlComputerHand: JPanel -selectedIndex: int +updateDeckCount(int):void +pnlHumanHand: JPanel -playerTurn: int +updateHand(lcon[],int):boolean +pnlPlayArea: JPanel -turns Skipped: int +updateStack(lcon[]):boolean -CardTable(String,int,int) -gameOver: boolean +updateScore(int,int):boolean +getCardsPerHand():int +Model() +updateSelectedButton(int):void +getNumberOfPlayers():int +startGame():void -update():void +endTurn(boolean):void +getPlayerButtonIndex(JButton):int +addCardToStack(int):boolean +getStackIndex(JLabel):int -updateScore(int):void +startTimer():void +resetTimer():GalieStack -isValidMove(int):boolean +startComputerTurn():void +getHandlcons(int):lcon[] +getStacklcons():lcon[] +getBackCardlcon():lcon +getCardsInDeckCount():int +getPlayerTurn():int +getPlayerScore(int):int +getPlayerScores():int[] +getSelectedCardIndex():int +is GameOver():boolean +setSelectedCard(int):boolean +setPlayerTurn(int):boolean <<Java Class>> CardGameFramework (default package) -MAX\_PLAYERS: int -numHayers: int -numPacks: int -numJokersPerPack; int. -numUnusedCardsPerPack int Suit -numCardsPerHand: int +clubs: Suit +CardGameFramew ork(int,int,int,Card[],int,int) +diamonds: Suit +CardGameFramew ork() +hearts: Suit +getHand(int):Hand +spades: Suit +getCardFromDeck():Card +getNumCardsRemaininglnDeck():int +Suit() +new Game():void +deal():boolean ~sortHands():void ~playCard(int,int):Card ~takeCard(int):boolean Card -value: char Hand errorFlag: boolean Deck +MAX\_CARDS: int -valuRanks: char[] -numCards: int +CARDS\_IN\_PACK: int +Card(char,Suit) +MAX\_CARDS: int +Hand() +Card() +MAX\_PACKS: int +resetHand():void +set(char,Suit):boolean -topCard: int +takeCard(Card):boolean +getSuit():Suit -numPacks: int +playCard(int):Card +getValue():char -isMasterPackAllocated: boolean +sort():void +getErrorFlag():boolean +toString():String +equals(Card):boolean +Deck(int) +getNumCards():int -isValid(char,Suit):boolean +Deck() +inspectCard(int):Card +arraySort(Card[],int):void +init(int):void +getCardValueRank(Card):int +shuffle():void +toString():String +dealCard():Card +getTopCard():int +inspectCard(int):Card +addCard(Card):boolean +removeCard(Card):boolean +sort():void

+getNumCards():int

-allocateMasterPack():void