# Diagramma delle classi in UML progetto Juno

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View.Animation
View.Elements
View.Pages
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Model. Players Model. Cards Model. Rules

<u>Controller</u> <u>Controller.Utilities</u>

#### package src.View

#### View

#### Utils

- + Utils():
- + toBufferedImage(Image): BufferedImage
- + getImage(String): Image
- + applyQualityRenderingHints(Graphics2D): void
- + rotateImage(BufferedImage, double): BufferedImage
- + getBufferedImage(String): BufferedImage?

<<package>>

package View.Animations

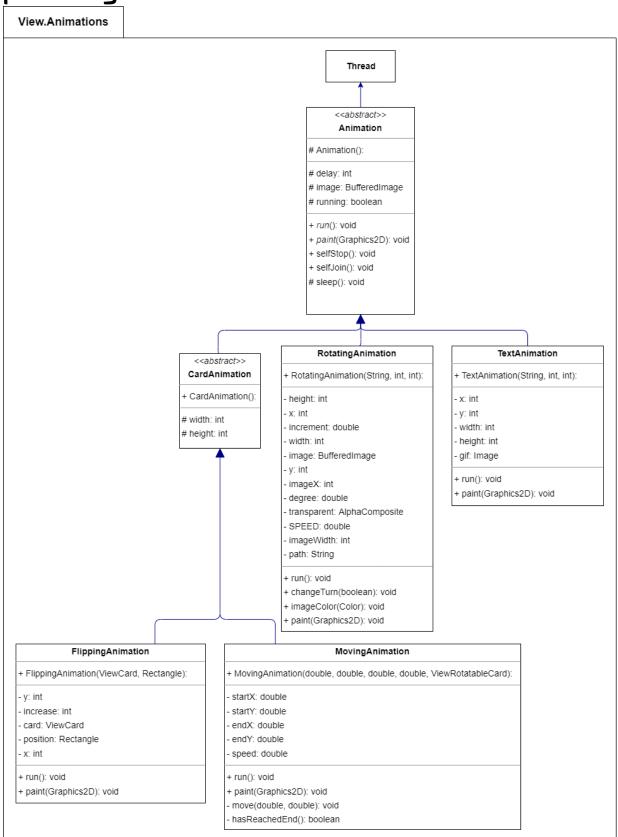
<<package>>

package View.Elements

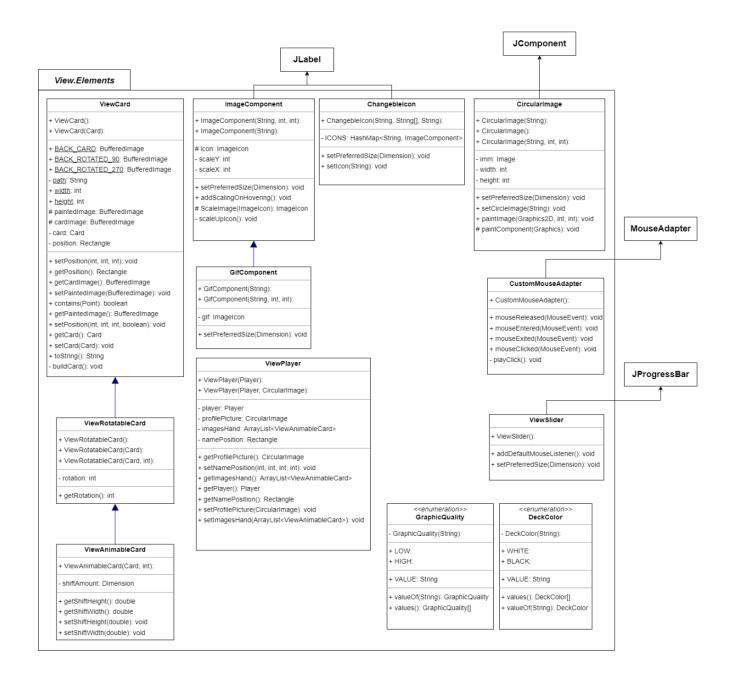
<<package>>

package View.Pages

#### package src.View.Animation

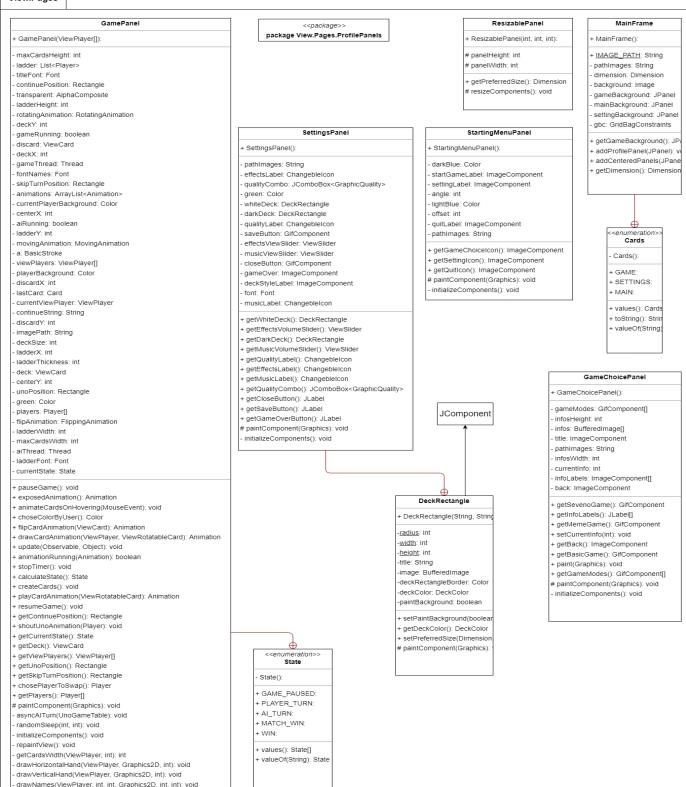


### package src.View.Elements

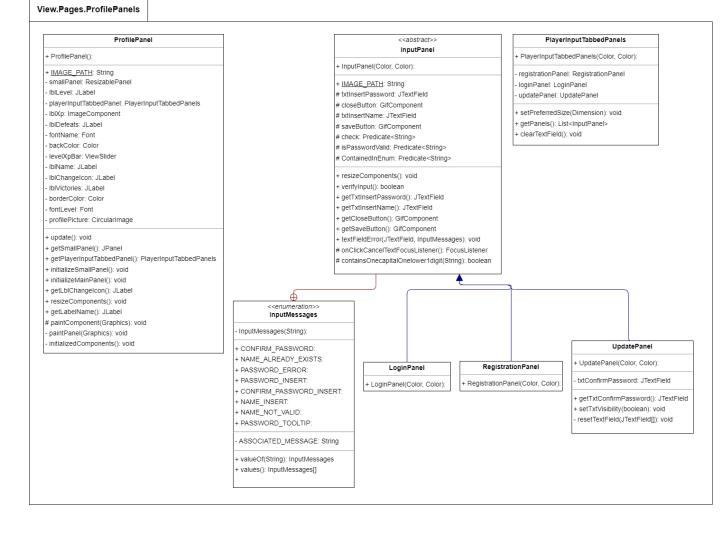


### package src.View.Pages

#### View.Pages



#### package src.View.Pages.ProfilePanels



### package src.Model

#### <<pre><<package>> package Model.Players DeckManager(HashMap<Value, Integer>): + DeckManager(): <<pre><<package>> package Model.Cards CLASSIC\_RULES\_CARD\_DISTRIBUTION: HashMap<Value, Integer>

<<pre><<package>>
package Model.Rules

discards: Stack<Card> peekDeck(): Card peekDiscards(): Card + draw(): Card + draw(int): ArrayList<Card> + pushDiscards(Card): void + getDeck(); Stack<Card> size(): int + shuffle(): void re shuffle(): void addManyCards(Color, Value, int): void

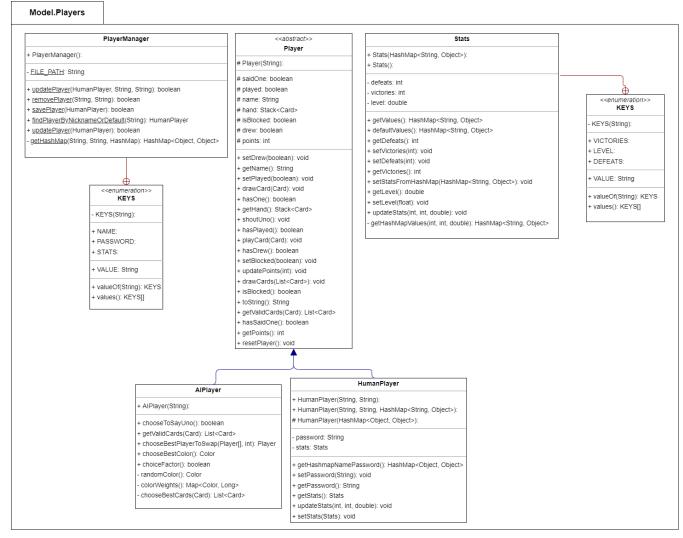
createDeck(HashMap<Value, Integer>): void

#### + UnoGameTable(Player[], UnoGameRules): - turnManager: TurnManager deckManager: DeckManager win: boolean ruleManager: UnoGameRules + currentPlayerIndex(): int + antiClockwiseTurn(): boolean + checkWin(Plaver); boolean + playCard(Card): ActionPerformResult + getPlayers(): Player[] + performFirstCard(Options); ActionPerformResult + cardActionPerformance(Options): ActionPerformResult + hasWin(): boolean + currentPlayer(): Player + getDeck(); DeckManager getTurnManager(): TurnManager + drawCard(Player): void + peekNextCard(): Card + checkGameWin(Player): boolean + startGame(): ActionPerformResult + expose(Player): void + getOptions(): OptionsBuilder

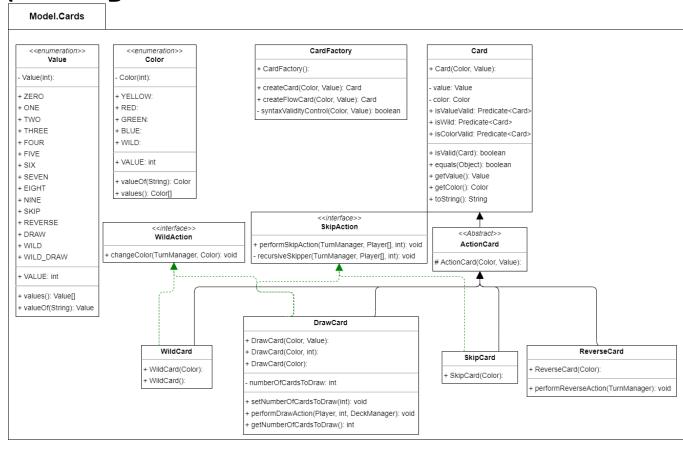
- updateObservers(): void

TurnManager(Card): lastCardPlayed: Card increase: int player: int next(int): int getLastCardPlayed(): Card + antiClockwiseTurn(): boolean + passTurn(): void + previous(int); int reverseTurn(): void previous(): int + updateLastCardPlaved(Value, Color); void + updateLastCardPlayed(Card): void + setPlayer(int): void

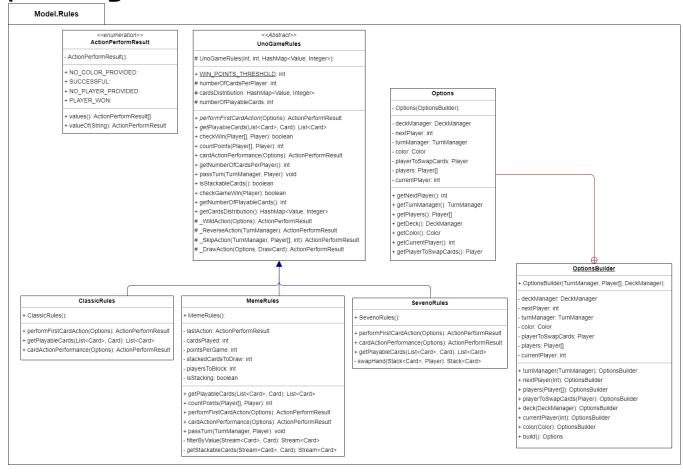
### package src.Model.Players



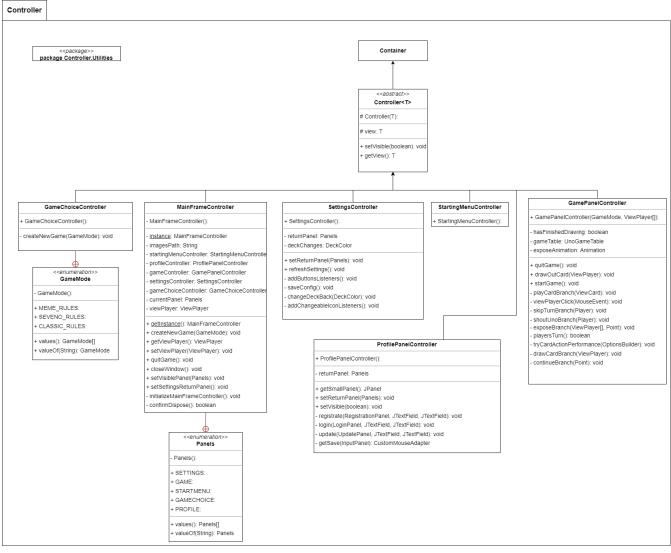
## package src.Model.Cards



#### package src.Model.Rules



### package src.Controller



### package src.Controller.Utilities

#### Controller.Utilities

