MortgageModel

-principal: double
-interestRate: double
-numpayments: double

+MortgageModel() : void
+getPrincipal() : double
+setPrincipal(principal: double):void
+getInterestRate() : void
+setInterestRate(interestrate: double) : void
+getNumPayments(): double
+setNumPayments(numpayments : double): double
+calculateInterestFactor(): double
+calculateMonthlyPayment(): double
+calculateTotalPayments():double
+calculateTotalInterestPaid():double
+calculateInterestPrincipalRatio():double
+calculateTotalInterestandPrincipal():double
+calculateAverageInterestPerYear():double
+calculateAverageInterestPerMonth():double
+calculateAmortizationInYears():double

MortgageController

-view : MortgageCalculatorView
-model : MortgageModel

+MortgageController(view:MortgageCalculatorView
model:MortgageModel) : void
+main(String[] args) : void

MortgageCalculatorView

-inputPrincipalAmt : JTextfield
-inputInterest : JTextfield
-inputpayments : JTextfield
-BlendedPayment : JLabel
-totalInterest : JLabel
-interestPrincipalRatio : JLabel
-avgIntperyear : JLabel
-avgIntpermonth : JLabel
-payments : JLabel
-totalInterestandPrincipal : JLabel
-button : JButton
-cleaButton : JButton

+MortgageCalculatorView():void
+getPrincipalvalue() : int
+getInterestRate() : double
+getNumberOfPayments(): int
+setBlendedPayment(payment:double) : void
+setTotalInterest(interest:double) : void
+setTotalInterestandPrincipal(total:double) : void
+setInterestPrincipalRatio(ratio:double) : void
+setAvgIntperyear(peryear:double) : void
+setAvgIntpermonth(permonth:double) : void
+setPayments(number:double) : void
+addCalculateListener(listener:ActionListener):void
+clearing():void
+addClearListener(listener:ActionListener):void

addCalculateListener

+actionPerformed(e:ActionEvent):void

addClearListener

+actionPerformed(e:ActionEvent):void

<<interface>>
ActionListener

+actionPerformed(e:ActionEvent):void