Classe UML

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Pacote Entities

MRUCalculator

- initialVelocity: Double
- finalVelocity: Double
- initialPos: Double
- deltaPos: Double
- finalPos: Double
- t: Double
- a: Double
- unidadeTempo:String
- unidadeVelocidade:String
- unidadeEspaco:String

+ calcularDeltaPos():Double
+ calcularDeltaPosAlt():Double
+ calcularVelocidadeFinal():Double
+ calcularVelocidadeInicial():Double
+ calcularTempo(:Double
+ calcularAceleracao():Double
+ calcularPosicaoFinal():Double
+ calcularPosicaoInicial():Double
+ calculaDados():String

Calc2D

- V: double
- Vx: double
- Vy0: double
- Vy: double
- V0: double
- g: double
- t: double
- h: double
- hmax: double
- alpha: double
- range: double

Text

+ horizontal_velocity_component(double V0, double alpha): double
+ vertical_velocity_component(double V0, double alpha, double g, double t): double
+ time_of_flight(double Vy0, double g): double
+ range_of_the_projectile(double Vx, double Vy0, double g): double
+ max_height(double Vy0, double g): double
+ time_of_flight(double Vy0, double g, double h): double
+ range_of_the_projectile(double Vx, double Vy0, double g, double h): double
+ max_height(double h, double Vy0, double g): double
+ velocity(double Vx, double Vy): double

Controladores

MainMenuController

mruButton : button
twoDButton : button

-OpenTwoDController();
-OpenMRUWindow();
-OpenNewWindow();

MRUController

textfields+16,,, : TextField
CalcButton : Button

+ handleCalculate(ActionEvent event)
+ Initializable(URL url ResourceBundle resourceBundle)

TwoDcontroller

textfields+18... : TextField
CalcButton : Button

+calculate() : string
+ handleCalculate(ActionEvent event)
+ Initializable(URL url ResourceBundle resourceBundle)

GUI

MainMenu.fxml

.TwoD.FXML

MRU.fxml