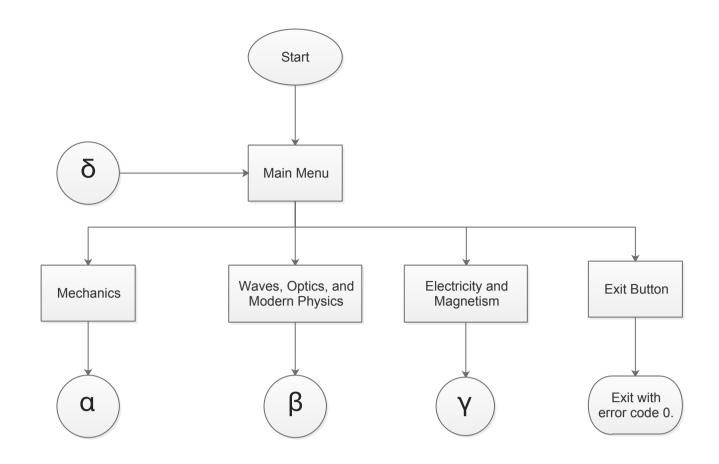
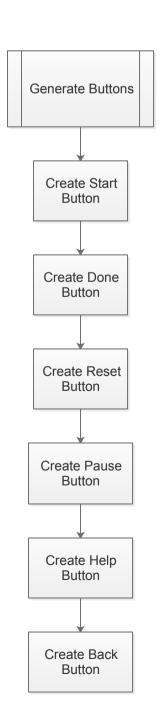
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Vect2D:
A class that stores a 2-dimensional vector or point.

List:

A class capable of storing elements of a specified object type

Button:

A GUI element which triggers an event when clicked by the user

TextField:

A GUI element where the user is capable of inputing a string Whenever a Number is required from this text field it will be parsed and if the value inputed is not a number, it will assume the input to be 0

protected int getInt(): Returns an integer input from the text field.

If no integer is found return 0

protected int getFloat(): Returns an float input from the text field.

If no integer is found return 0.0

Label

A GUI element capable of displaying a string to the user

LineChart:

A class that represents a line graph based on two variables.

abstract PhysicalObject:
 protected Vect2D position
 protected Vect2D velocity
 protected Vect2D acceleration
 protected Image image
public abstract void applyForce(Vect2D force): Applies an
 accelerative force

public static double constrain(double value, double min, double max): constrains the value variable between min and max protected void move(): Changes the velocity and position based on the velocity and acceleration.

protected void update(): Updates the object's position on screen relative to the its center.

public Vect2D getPosition()
public void setPosition(Vect2D position)
public Vect2D getVelocity()
public void setVelocity(Vect2D velocity)
public Vect2D getAcceleration()

public vect2D getAcceleration()
public void setAcceleration(Vect2D acceleration)

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public Image getImage()

static class ClsMain:

Primary class of the entire algorithm. Contains the main menu allowing the user to select a topic to view.

protected Button btnMech: Will take you to the Mechanics menuprotected Button btnWav: Will take you to the Waves menuprotected Button btnEM: Will take you to the Electricity menu.

interface IConstants:

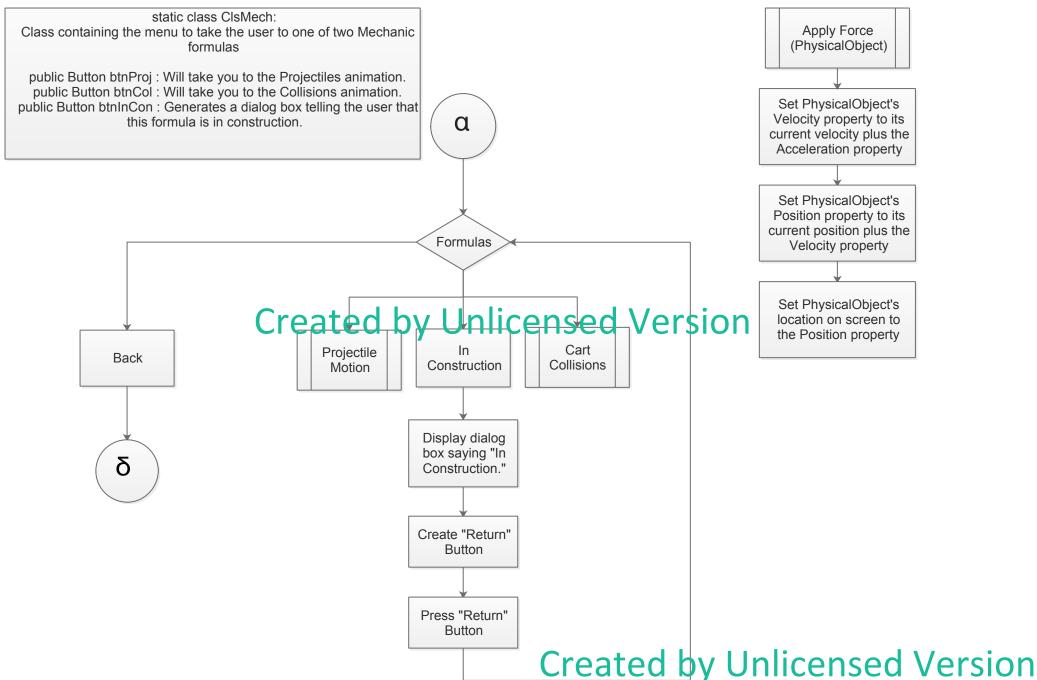
Interface containing all global constants used by every program.

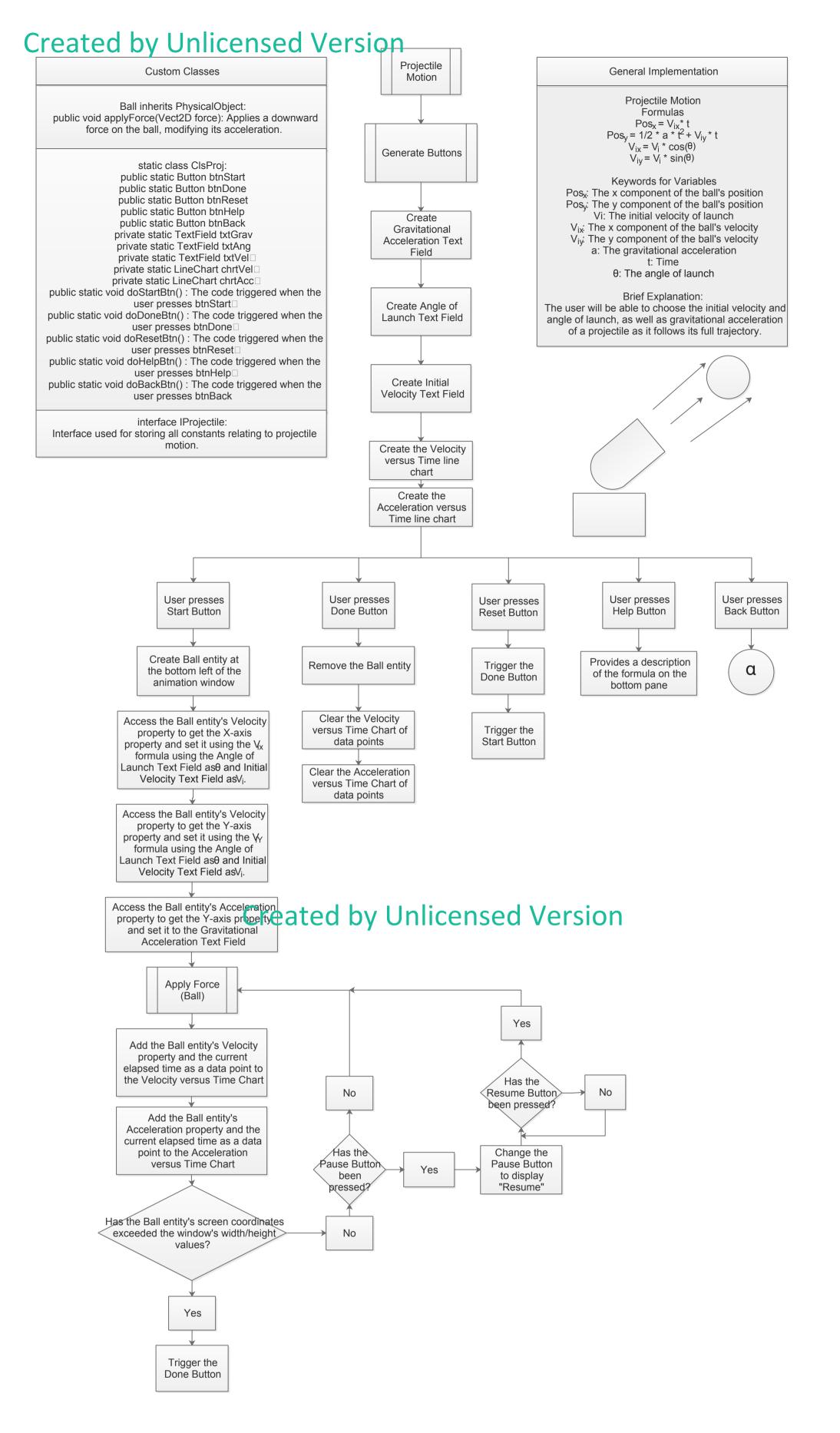
static class ClsHandlers:

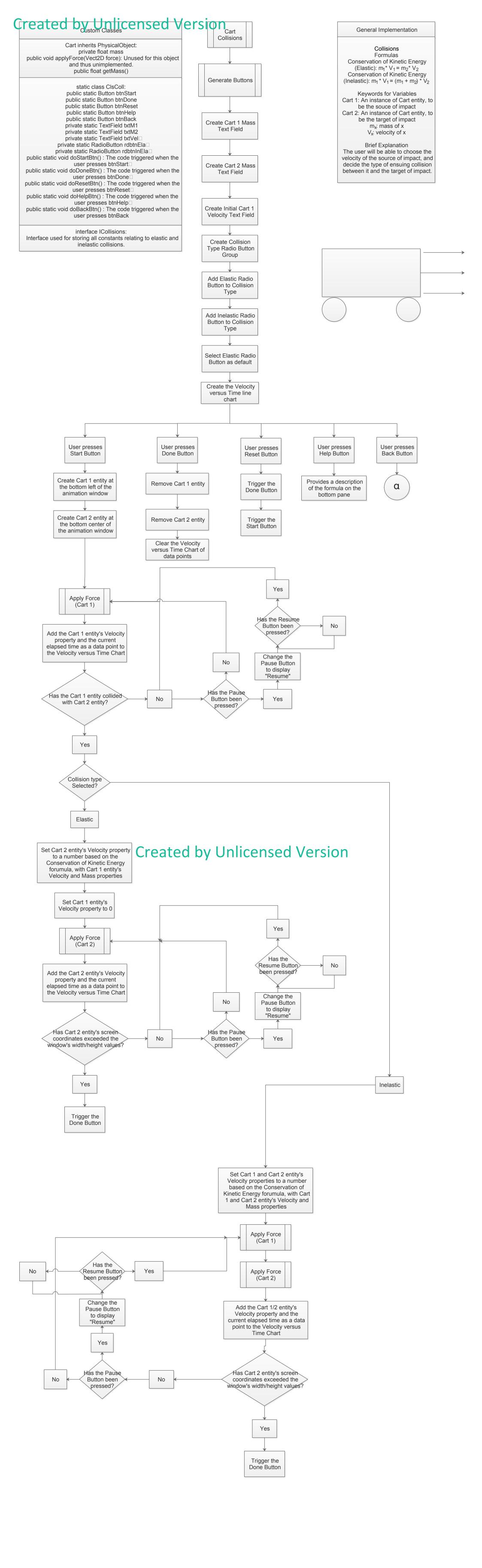
Class handling the events triggered by every Button object throughout the algorithm.

All data related to what the button's actions are is stored in this class.

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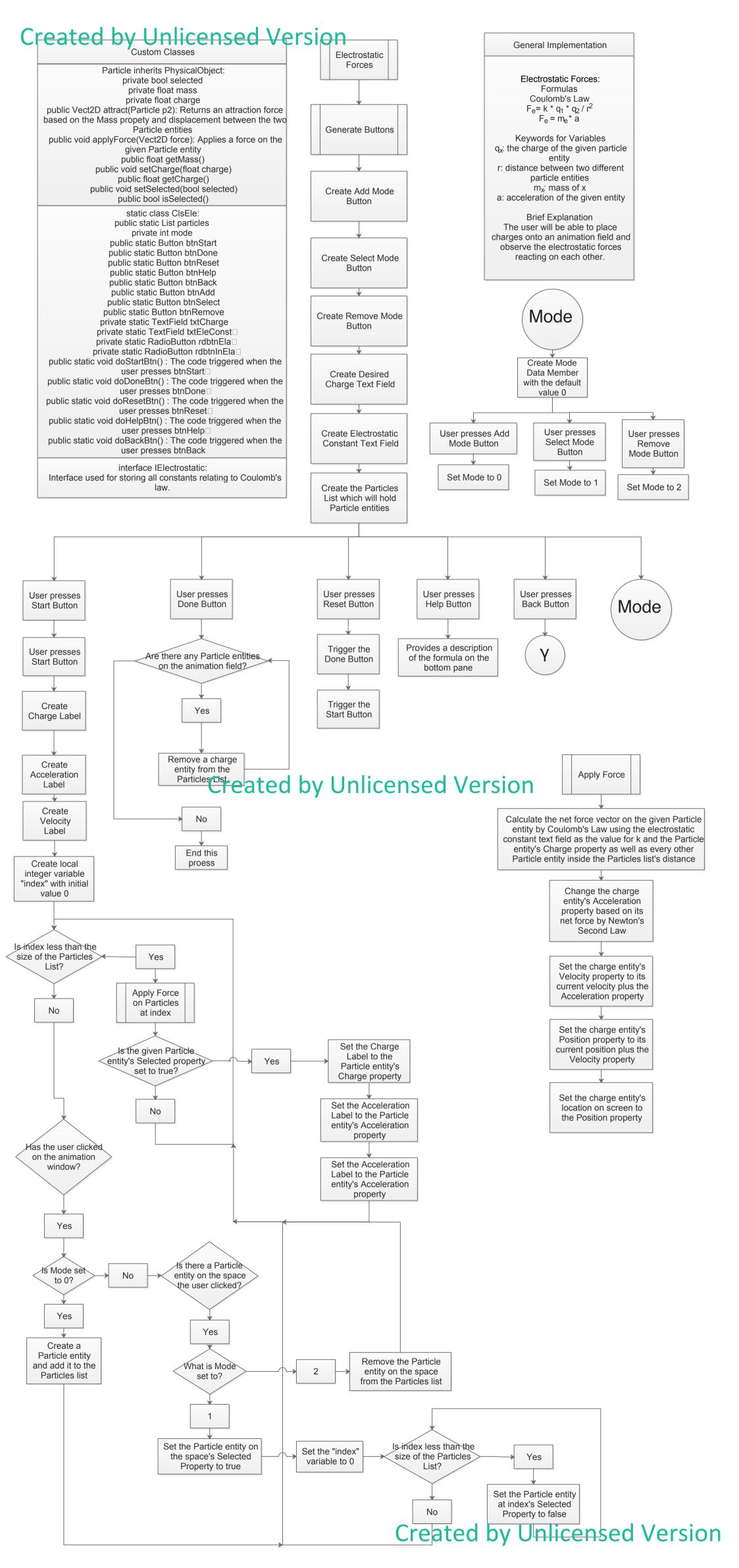


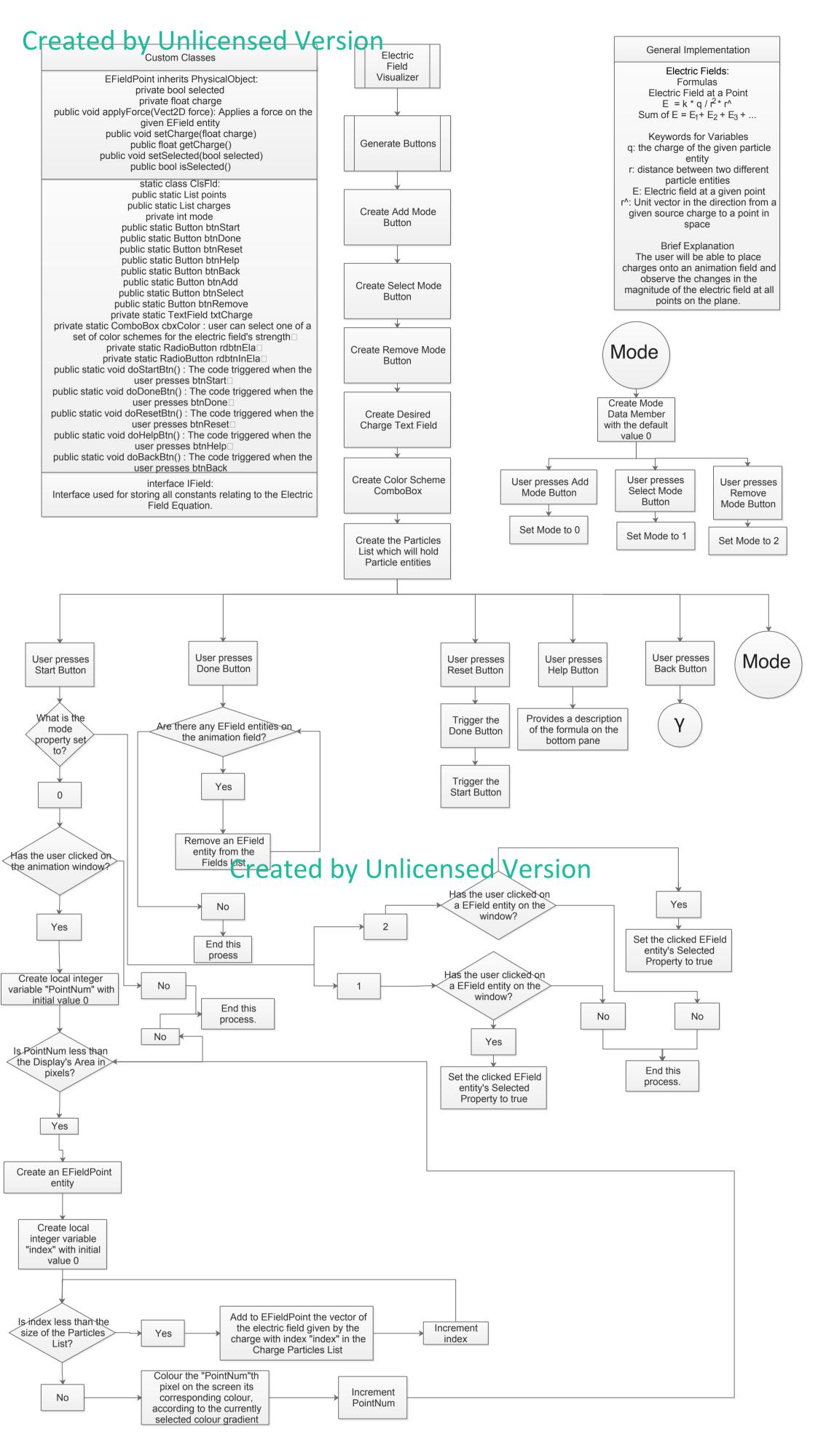


Created by Unlicensed Version static class CIsEM: Class containing the menu to take the user to one of two Electricity & Magnetism formulas public Button btnEle: Will take you to the Electrostatic animation. public Button btnFeild: Will take you to the Electric Field animation. public Button btnInCon: Generates a dialog box telling the user that this formula is in construction. Formulas ndictrein sed Fieldersion Create Clast of table U Back Display dialog box saying "In δ Construction." Create "Return" Button Press "Return"

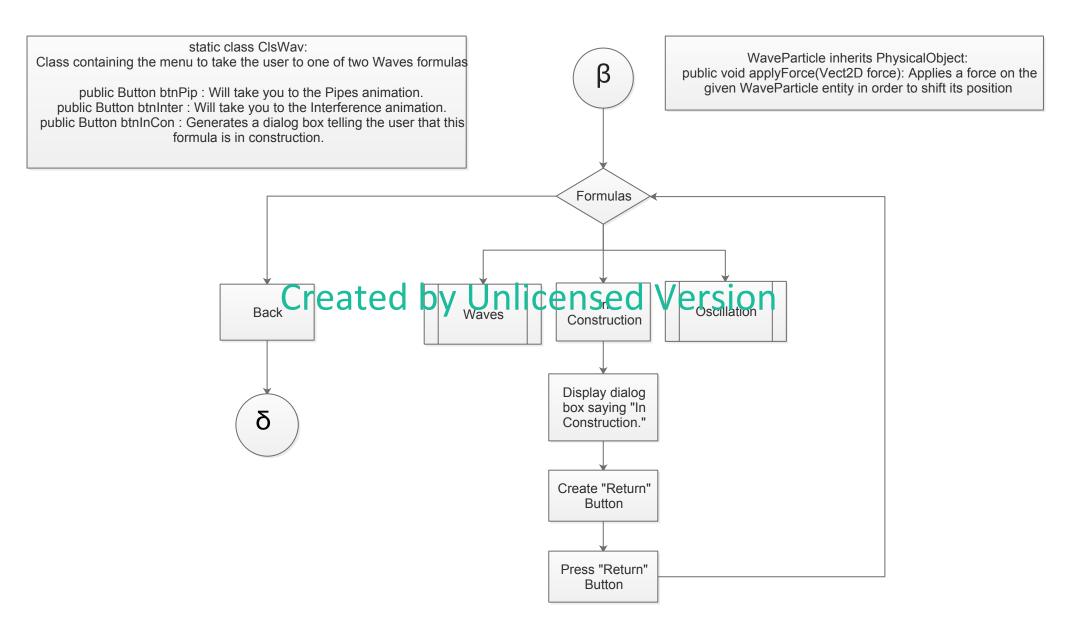
Button

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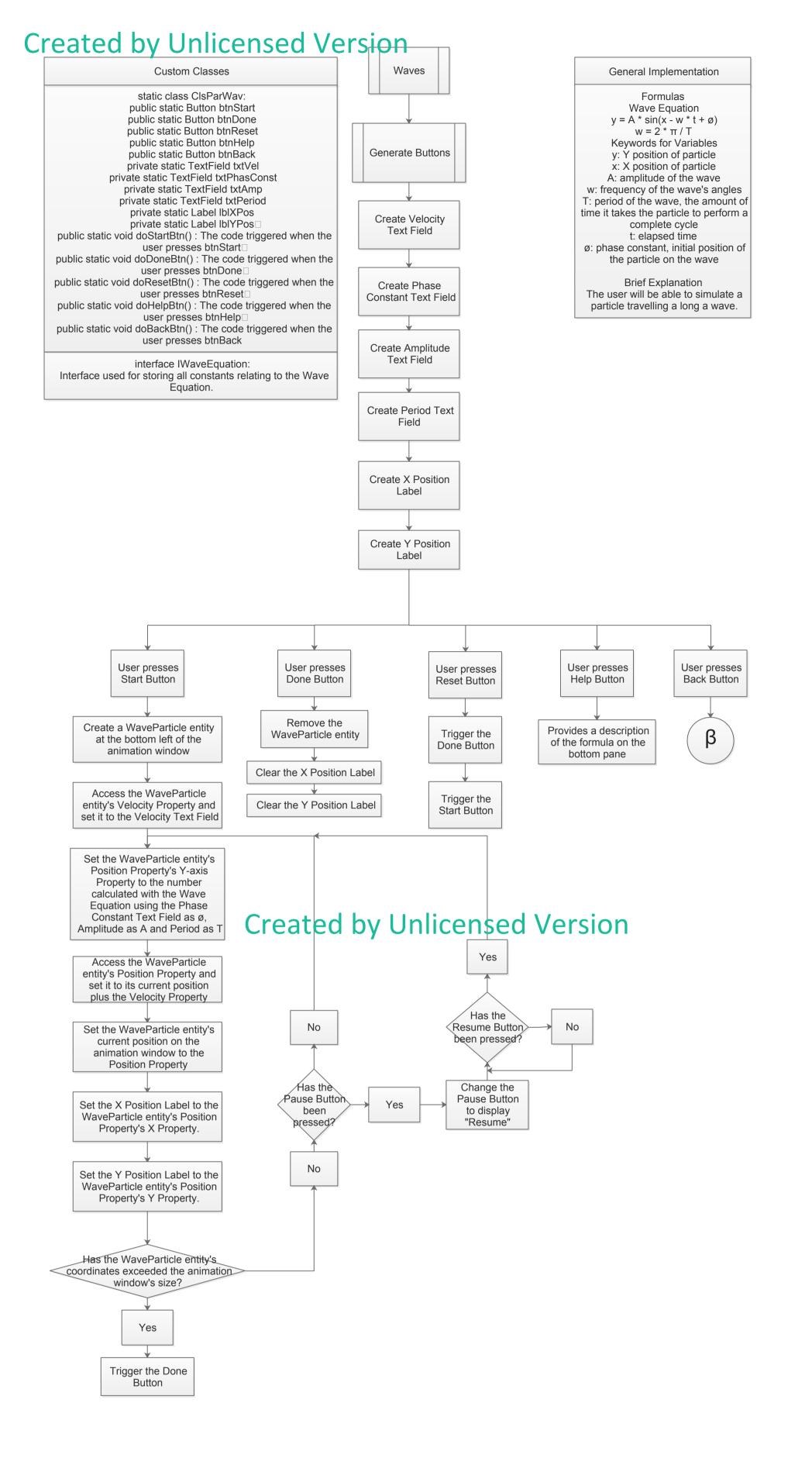


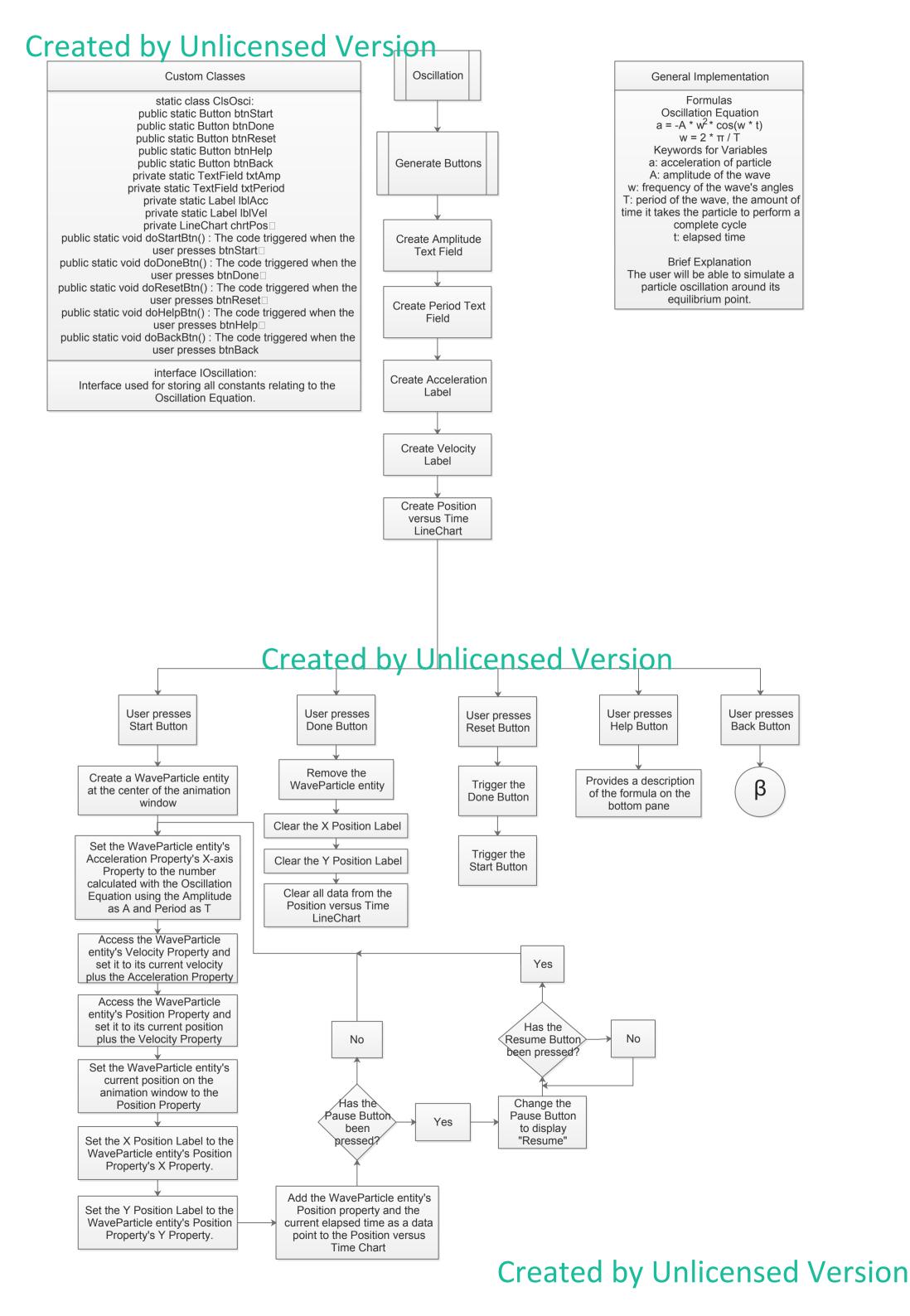


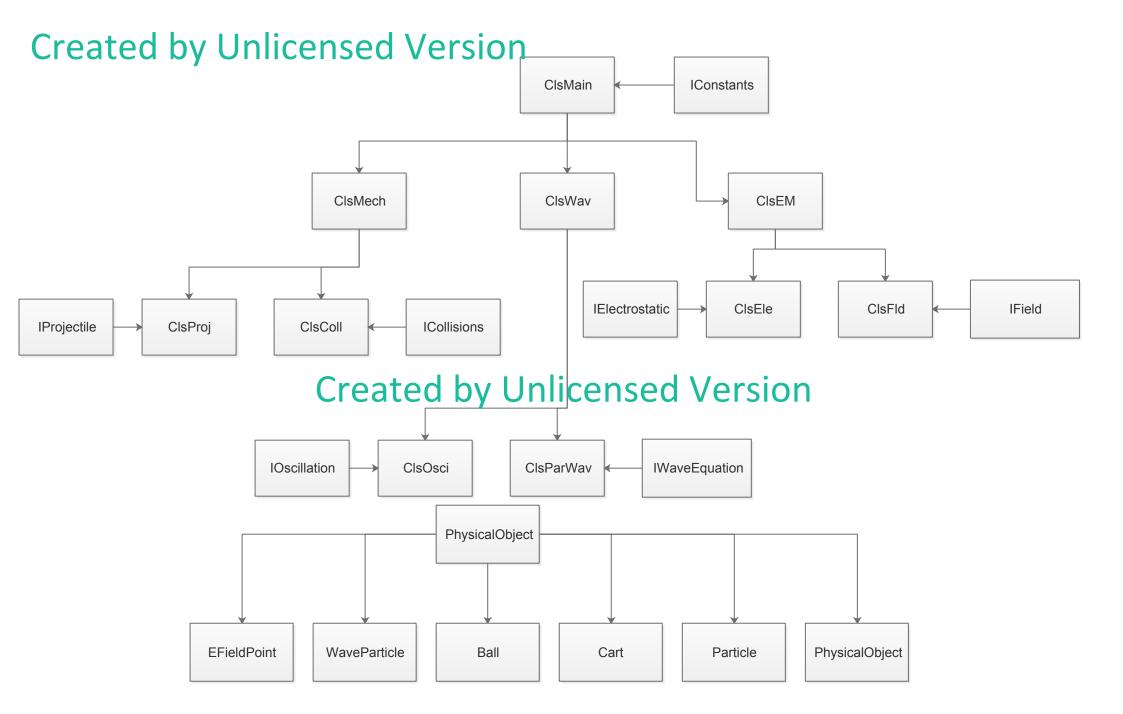
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