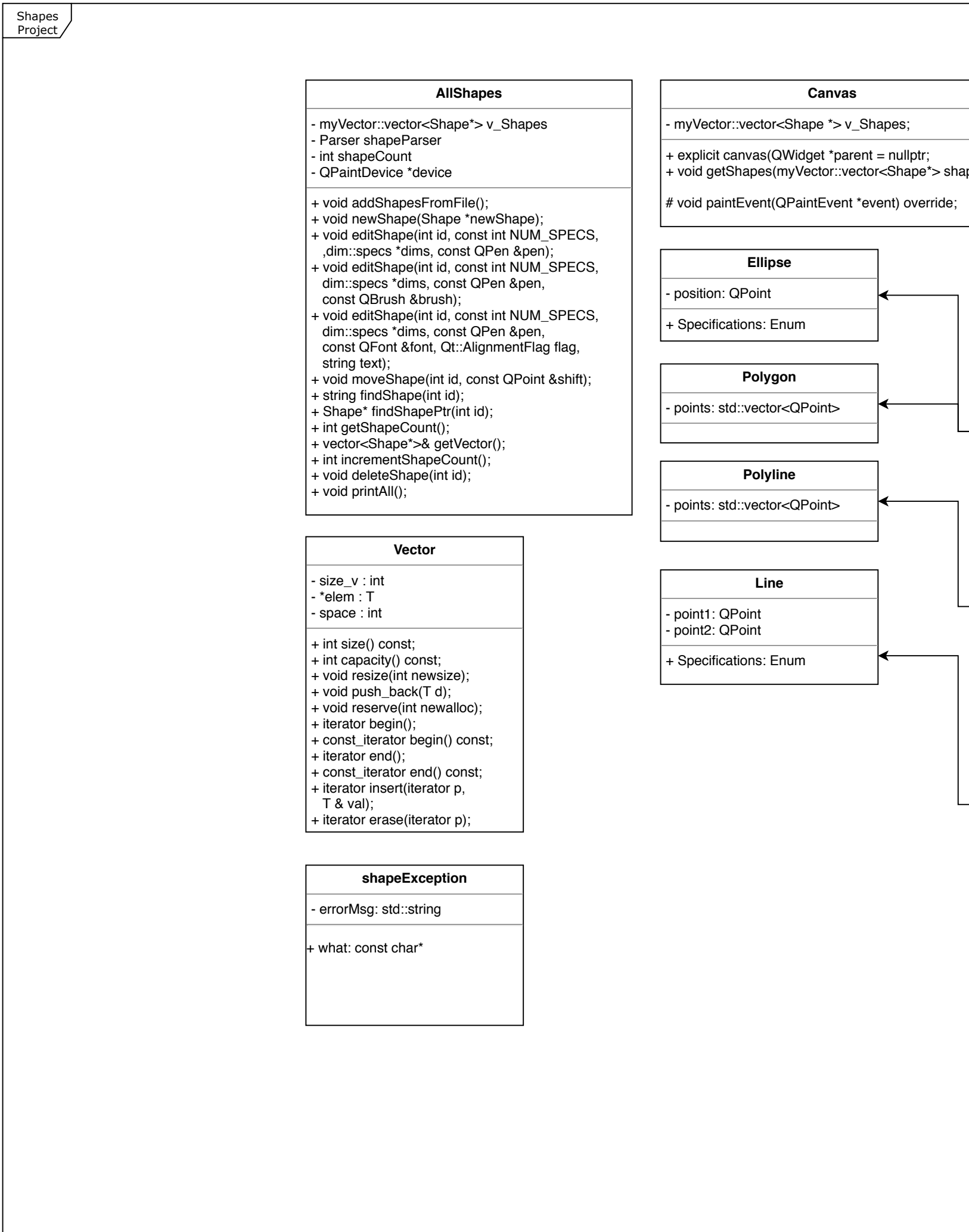
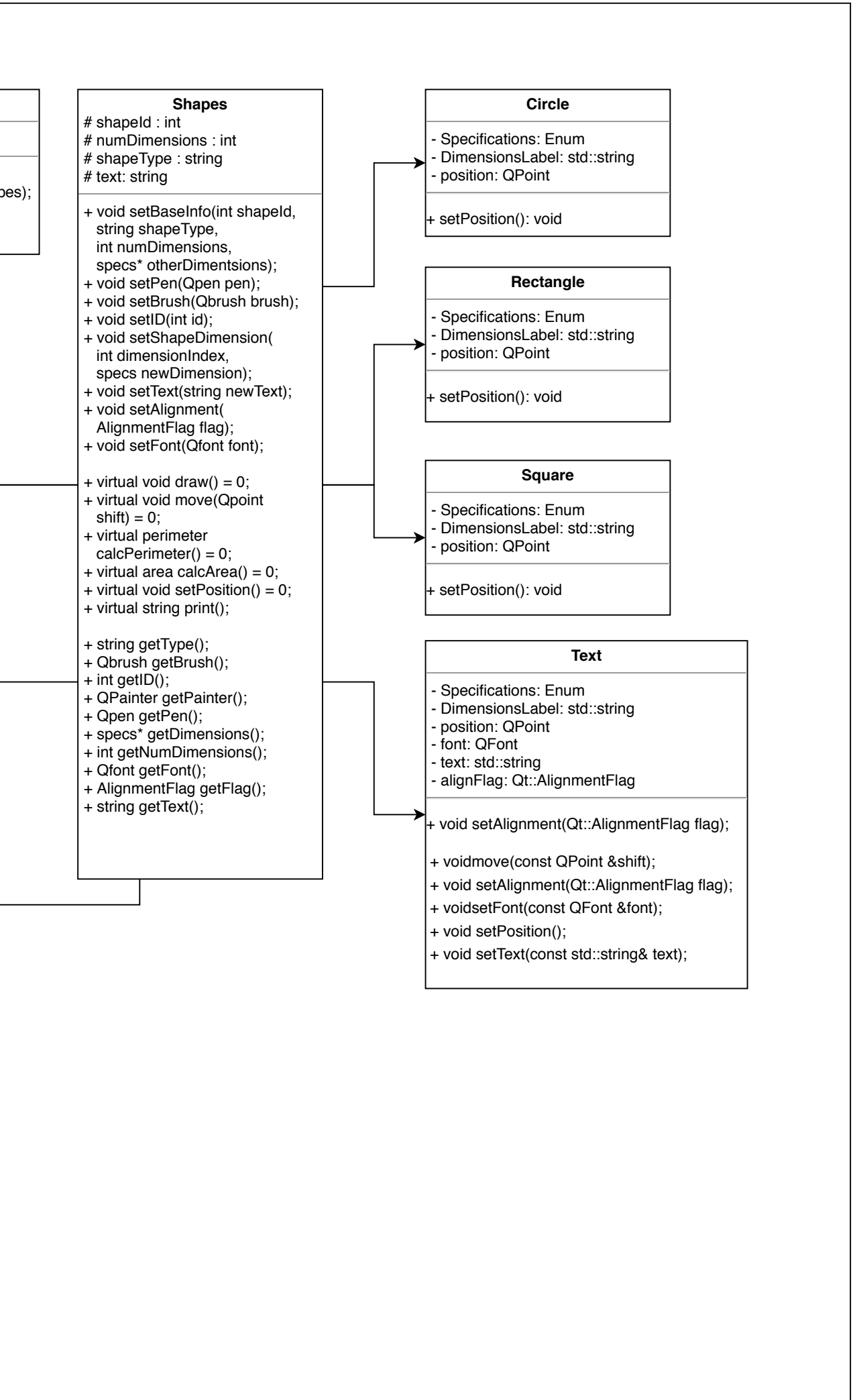
Shapes Project




Shapes
shapeId : int
numDimensions : int
shapeType : string
text: string
+ void setBaseInfo(int shapeId, string shapeType, int numDimensions, specs* otherDimentsions);
+ void setPen(Qpen pen);
+ void setBrush(Qbrush brush);
+ void setID(int id);
+ void setShapeDimension(int dimensionIndex, specs newDimension);
+ void setText(string newText);
+ void setAlignment(AlignmentFlag flag);
+ void setFont(Qfont font);
+ virtual void draw() = 0;
+ virtual void move(Qpoint shift) = 0;
+ virtual perimeter calcPerimeter() = 0;
+ virtual area calcArea() = 0;
+ virtual void setPosition() = 0;
+ virtual string print();
+ string getType();
+ Qbrush getBrush();
+ int getID();
+ QPainter getPainter();
+ Qpen getPen();
+ specs* getDimensions();
+ int getNumDimensions();
+ Qfont getFont();
+ AlignmentFlag getFlag();
+ string getText();
Circle
- Specifications: Enum
- DimensionsLabel: std::string
- position: QPoint
+ setPosition(): void
Rectangle
- Specifications: Enum
- DimensionsLabel: std::string
- position: QPoint
+ setPosition(): void
Square
- Specifications: Enum
- DimensionsLabel: std::string
- position: QPoint
+ setPosition(): void
Text
- Specifications: Enum
- DimensionsLabel: std::string
- position: QPoint
- font: QFont
- text: std::string
- alignFlag: Qt::AlignmentFlag
+ void setAlignment(Qt::AlignmentFlag flag);
+ voidmove(const QPoint &shift);
+ void setAlignment(Qt::AlignmentFlag flag);
+ voidsetFont(const QFont &font);
+ void setPosition();
+ void setText(const std::string& text);