**PRODUCT BACKLOG**

Priority goes from 1(higher) to 10(lower)

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| --- | --- | --- | --- | --- |
| ID | User Story | Priority | SP | Acceptance Criteria |
| 1 | as user  I want to choose a rectangle from the user interface  in order to insert it in the drawing window | 1 | 5 | given a “rectangle” button  when it is clicked and chosen the desired position in the drawing window  then a rectangle appears in the drawing window |
| 2 | I want to choose a straight line from the user interface  in order to insert it in the drawing window | 1 | 5 | given a “straight line” button  when it is clicked and chosen the desired position in the drawing window  then a rectangle appears in the drawing window |
| 3 | I want to choose an ellipse from the user interface  in order to insert it in the drawing window | 1 | 5 | given an “ellipse” button  when it is clicked and chosen the desired position in the drawing window  then a rectangle appears in the drawing window |
| 4 | I want to choose from a set of 8 colors  in order to color the outline of my figure | 2 | 3 | given a selected shape and a set of 8 color  when I pick one of them then the outline of the selected shape become of the selected color |
| 5 | I want to choose from a set of 8 colors  in order to color the interior of my figure | 2 | 3 | given a closed shape and a set of 8 colors and clicked the fill button  when I choose one of them then selected shape is filled with the selected color |
| 6 | I want to clear the drawing window | 8 | 1 |  |
| 7 | I want to select a shape | 2 | 5 | given a drawing window  when click on a shape with the left mouse button  then it’s possible to do different operation on the selected shape |
| 8 | I want to save my drawing on a file  in order to store it | 3 | 3 | given a drawing window  when I click on save button  then you can name and store it as xml |
| 9 | I want to load a drawing from a file  in order to insert it in the drawing window | 3 | 3 | given a drawing window  when I click on load button  then I can choose a file xml from directories and view it on drawing window |
| 10 | I want to be able  to select a shape in the drawing with the mouse  in order to delete it | 4 | 4 | given a selected shape  when I click the right mouse button, appears the delete option  then clicking on it the selected shape must be deleted |
| 11 | I want to be able  to select a shape of the drawing with the mouse  in order to move it to a different position | 4 | 4 | given a selected shape  when I move the mouse  then the shape is moved in the selected new position without change its features |
| 12 | I want to be able to select a shape of the drawing with the mouse  in order to change its color | 4 | 4 |  |
| 13 | I want to be able to select a shape of the drawing with the mouse  in order to change its size | 4 | 4 | given a selected shape  when I select the resize option  then the selected shape must be resized |
| 14 | I want to be able to select a shape with the mouse  in order to do the "cut" operation | 4 | 4 |  |
| 15 | I want to be able to select a shape with the mouse  in order to do the "copy" operation | 4 | 4 |  |
| 16 | I want to be able to select a shape with the mouse  in order to do the "paste" operation | 4 | 4 |  |
| 17 | I want to be able to undo operations an unlimited number of times  in order to be able to go back to the precedent state of the drawing | 5 | 5 | given N performed operations  when I click N times the “undo command”  then I come back to the initial state |
| 18 | I want to be able to choose the depth of a figure in order to show it in the foreground | 6 | 4 | given at least two overlapped shapes  when I select the foreground option  then it is sent to the front of the drawing |
| 19 | I want to be able to choose the depth of a figure in order to show it in the background | 6 | 4 | given at least two overlapped shapes  when I select the background option  then it is sent to the back of the drawing |
| 20 | I want to be able to choose among 8 zoom levels  in order to change the display of the drawing window | 7 |  |  |
| 21 | I want to be able to scroll the drawing window  in order to show the affected part of the drawing | 7 |  |  |
| 22 | I want to be able to decide if to show a grid  in order to help me place the figures in the drawing window | 7 |  |  |
| 23 | I want to be able to modify the size of the grid  to help me with detailed placement of figures in the drawing window | 8 |  |  |
| 24 | I want to choose an arbitrary polygon  in order to insert it in the drawing window | 8 |  |  |
| 25 | I want to be able to insert text strings as shape and choose their  size in to place them in the drawing window | 8 |  |  |
| 26 | I want to be able to select a figure  in order to rotate it by an arbitrary angle | 8 |  |  |
| 27 | I want to be able to select a figure  in order to “mirror” it horizontally | 8 |  |  |
| 28 | I want to be able to select a figure  in order to “mirror” it vertically | 8 |  |  |
| 29 | I want to be able to select a figure  in order to “stretch” it horizontally | 8 |  |  |
| 30 | I want to be able to select a figure  in order to “stretch” it vertically | 8 |  |  |
| 31 | I want to be able to select groups of figures   to group them into a single element in the working window | 9 |  |  |
| 32 | I want to be able to select groups of figures  in order to ungroup them | 9 |  |  |
| 33 | I want to be able to define a new figure  in order to save it to a “shapes library” file | 10 |  |  |
| 34 | I want to be able to load from file "shapes library"  in order to import a previously saved figure | 10 |  |  |
|  |  |  |  |  |

**DEFINITION OF DONE**

• Code reviewed

• The code runs without errors

• Unit tests passed

• The integration tests have been passed

•Product owner accepts user story

**DECISION MADE**

The team decided to use the Java language for product development, to develop the user interface

JavaFXML graphics with SceneBuilder, and Netbeans will be used as the IDE.