Yearly Programming Project

Analysis and Design Stage.

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Report № 1
Use cases

Full list of use cases :

*Select single object
*Select group of objects
* Choose current insertion point
* Define default values for attributes
* Indicating Attributes
* Right clicks on some place
    * Insert File
    * Undo
    * Redo
    * Cut
    * Copy
    * Paste
    * Print
    * Fill
* Draw a box
* Draw a circle
* Draw an ellipse
* Draw an arc
* Draw a line or a spline
* Draw an arrow
* Draw an move
* Add text associated with the element
* Add self-standing text
* User double-clicks text string
* Change grid settings
* Drag box, circle or ellipse
* Drag right side of box
* Drag upper side of box
* Drag left side of box
* Drag bottom side of box
* Drag some side of circle
* Drag right side of ellipse
* Drag upper side of ellipse
* Drag left side of ellipse
* Drag bottom side of ellipse
* Drag bottom side of ellipse

*** Select single object**

	Client	Request	Server
1	User	Double-clicks on object	System
2	System	Updates current selected element	System

*** Select group of objects**

	Client	Request	Server
1	User	User push -down left mouse button and drags mouse, trying to open ‘area’, and selecting elements, after that he releases button	System
2	System	Save this group of elements , for further use.	System

*** Choose current insertion point**

By default it will be the point 'after' the last inserted object

	Client	Request	Server
1	User	Click with left mouse at some point	System
2	System	Update current insertion point	System

*** Define default values of attributes for the object**

	Client	Request	Server
1	User	Asks to define default value of attributes for selected (chosen) object.	System
2	System	Updates the default values of attributes	System

*** Indicating Attributes**

We'll add buttons 'From' 'To' , etc.

	Client	Request	Server
1	User	Click on From and Select single object/point	System
2	User	Click on To and Select single object/point	System
3	User	Choose an object to draw	System
4	System	Draw the object	System

*** Right-clicks on some place:**

	Client	Request	Server
1	User	Open user menu	System
2	System	Asks user to choose one of the options: 1. Insert File (jump to 3) 2. Undo (jump to 7) 3. Redo (jump tp 8) 4. Cut (jump to 4) 5. Copy (jump to 5) 6. Paste (jump to 6) 7. Print (jump to 9) 8. Fill (jump to 10)	User
3		Calls 'Insert file' case & exit	System
4		Calls 'Cut' case & exit	System
5		Calls 'Copy' case & exit	System
6		Calls 'Paste' case & exit	System
7		Calls 'Undo' case & exit	System
8		Calls 'Redo' case & exit	System
9		Calls 'Print' case & exit	System
10		Calls 'Fill' case & exit	System

*** Insert File**

	Client	Request	Server
1	User	Choose file to insert	System
2	User	Choose the place for insert (click with the mouse)	System
3	System	Insert file from given position	System

*** Redo**

	Client	Request	Server
1	System	Perform Redo to the current document	System

*** Undo**

	Client	Request	Server
1	System	Perform Undo to the current document	System

*** Cut**

	Client	Request	Server
1	System	Copy selected object(s) to clipboard and delete it from the screen	System

*** Copy**

	Client	Request	Server
1	System	Copy selected object(s) to clipboard	System

*** Paste**

	Client	Request	Server
1	System	Perform Paste from the clipboard to current position in the document	System

* **Print**

	Client	Request	Server
1	System	Print current document	System

* **Fill**

	Client	Request	Server
1	System	Opens dialog for choosing color	System
2	System	Chooses the color	User
3	System	Fills the closed area from the current insertion point with chosen color	System

* **Draw a box:**

	Client	Request	Server
1	User	Asks to draw box	System
2	System	Draws the box of default size, user can update desired attributes if he wants to (proceed to 3 or 4 or 5 or 6 or 7)	User
3	System	Asks for length	User
4	System	Asks for width	User
5	System	Asks for line styles	User
6	System	Asks for place	User
7	System	Asks to fill the element	User
8		Drawing the object	System

*** Draw circle:**

	Client	Request	Server
1	User	Asks to draw circle	System
2	System	Draws a circle of default size, user can update desired attributes if he wants to (proceed to 3 or 4 or 5 or 6 or 7)	User
3	System	Asks for center point	User
4	System	Asks for radius	User
5	System	Asks for line styles	User
6	System	Asks for place	User
7	System	Asks to fill the element	User
8		Drawing the object	System

*** Draw ellipse**:

	Client	Request	Server
1	User	Asks to draw ellipse	System
2	System	Draws an ellipse of default size,user can update desired attributes if he wants to (proceed to 3 or 4 or 5 or 6 or 7 or 8)	User
3	System	Asks for center point	User
4	System	Asks for x-width	User
5	System	Asks for y-width	User
6	System	Asks for line styles	User
7	System	Asks for place	User
8	System	Asks to fill the element	User
9		Drawing the object	System

*** Draw arc:**

	Client	Request	Server
1	User	Asks to draw arc	System
2	System	Draws an arc of default size ,user can update desired attributes if he wants to (proceed to 3 or 4 or 5 or 6 or 7 or 8)	User
3	System	Asks for center point	User
4	System	Asks for beginning point	User
5	System	Asks for end point	User
6	System	Asks for line styles	User
7	System	Asks for place	User
8	System	Asks to fill the element	User
9		Drawing the object	System

*** Draw line or spline**:

	Client	Request	Server
1	User	Asks to draw line or spline	System
2	System	Draws line/spline of default size/attrib ,user can update desired attributes if he wants to (proceed to 3 or 4 or 5 or 6)	User
3	System	Asks for beginning of the element	User
4	System	Asks for end of the element	User
5	System	Asks for direction	User
6	System	Asks for line styles	User
7		Drawing the object	System

*** Draw arrow:**

	Client	Request	Server
1	User	Asks to draw arrow	System
2	System	Draws an arrow of default size ,user can Update desired attributes if he wants to (proceed to 3 or 4 or 5 or 6)	User
3	System	Asks for beginning of the element	User
4	System	Asks for end of the element	User
5	System	Asks for direction	User
6	System	Asks for line styles	User
7		Drawing the object	System

*** Draw move:**

	Client	Request	Server
1	User	Asks to draw move	System
2	System	Draws a move of default size ,user can Update desired attributes if he wants to (proceed to 3 or 4)	User
3	System	Asks for direction	User
4	System	Asks for end of the element	User
5		Drawing the object	System

*** Add text associated with the element:**

	Client	Request	Server
1	User	Asks to add text assosiated with the element	System
2	System	Asks to specify the adjustment	User
3	System	Asks to return to the push button set	User
4		Drawing the object	System

*** Add self-standing text:**

	Client	Request	Server
1	User	Asks to add self-standing text	System
2	System	Asks to choose text's position	User
3	System	Asks to specify the adjustment	User
4		Drawing the object	System

*** Double-clicks text string:**

	Client	Request	Server
1	User	Change font & style	System
2		Changing font & style cases	System

*** Change grid settings:**

	Client	Request	Server
1	User	Asks to change grid settings	System
2	System	Asks for horizontal spacing	User
3	System	Asks for vertical spacing	User
4		Changing grid settings	System

*** Drag box, circle or ellipse:**

	Client	Request	Server
1	User	Drags element	System
2		Changing element's place	System

*** Drag right side of box**:

	Client	Request	Server
1	User	Change box's length	System
2		Changing box's length	System

*** Drag upper side of box:**

	Client	Request	Server
1	User	Change box's width	System
2		Changing box's width	System

*** Drag left side of box:**

	Client	Request	Server
1	User	Change box's length	System
2		Changing box's length and place	System

*** Drag bottom side of box:**

	Client	Request	Server
1	User	Change box's width	System
2		Changing box's width and place	System

*** Drag some side of circle:**

	Client	Request	Server
1	User	Change circle's size	System
2		Changing circle's radius and place	System

*** Drag right side of ellipse:**

	Client	Request	Server
1	User	Change ellipse's x-width	System
2		Changing ellipse's x-width & move it right	System

*** Drag upper side of ellipse:**

	Client	Request	Server
1	User	Change ellipse's y-width	System
2		Changing ellipse's y-width & move it up	System

*** Drag left side of ellipse:**

	Client	Request	Server
1	User	Change ellipse's x-width	System
2		Changing ellipse's x-width & move it left	System

*** Drag bottom side of ellipse:**

	Client	Request	Server
1	User	Change ellipse's y-width	System
2		Changing ellipse's y-width & move it up	System