

Software Requirements Document (Version 2.0) - Group 17

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Venn Diagram Visual Tool

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1. System Purpose

The purpose of the Venn Diagram Visual Tool is to allow users to organize their information visually into three categories, consisting of sections of two circles and a section where the two circles overlap another. Users are able to see the relationships between the sets of information and identify similarities and differences.

All essential features of the system are described in this document.

2. System Features

- User is able to customize their Venn diagram to their preference
 - Customizable color of each circle
 - Customizable size of the diagram
 - Customizable title of the visual diagram
- User can add multiple text elements to the three segments of the Venn diagram
 - Text elements can be added via buttons
 - Text elements are able to be dragged and dropped to preferred diagram sections.
- User can save their work
- User can take screenshots of their diagram

3. Acceptance Requirements

The Acceptance Requirements met by the Venn Diagram Visual Tool.

- User interface includes a Venn diagram visual with a title above it, and subtitles above each circle.
- Texts of titles are editable to user.
- Venn Diagram allows user to add Text Boxes into three separate conjunctions.
 - Text boxes can be put in fixed places or according to the user's preference and the options can be toggled.
- The user interface includes operates by using buttons.
- These buttons will allow the user to do the following:

- 'Circle Color' button

- Two circle color buttons that, upon clicking, gives user ability to change the colors of either the left or right circle of the diagram.

- 'Add New Text Box' button

- Upon clicking, a new text box will be added to the left side of the user interface which will then be available for dragging into the diagram sets and renaming.

- The contents of any text box can be renamed after clicking it. The text boxes can also be dragged into either circles or their conjunction.

- 'Add Multiple New Text Boxes' button

- Upon clicking, a window will open with the following options:

- 'Add One Text to List'

- Upon clicking, an editable text will be added to window.

- 'Delete Selected Text from List'

- Upon clicking, will remove selected text in the window.

- 'Convert All Texts in List into Text Boxes'

- Upon clicking, all current texts in the window will become text boxes in the venn diagram.

- 'Anchoring'

- Upon clicking, will toggle text box anchoring on or off

- When anchoring is on, text boxes will move to preprogrammed positions when dragged within the circles and the screen will stay maximized. This also means only a fixed amount of text boxes can be dragged into each region.

- When anchoring is off, text boxes can be dragged anywhere the user prefers and the screen can be resized

according to the user's preference.

- 'Take Screenshot of Venn Diagram'

- Upon clicking, a screenshot of the diagram will be saved in the directory from where the program was run

- Text boxes are held either in the section it is dropped into by user, or the preprogrammed positions depending on whether anchoring is on or off.

- Text boxes exist in a list on the left side of the interface prior to dragging into diagram.

- The different circles have the same radius.

- The circles have a set radius (depending on the screen size).

4. Use Cases

The steps involved to perform the implementation of a user-personalized venn diagram are as listed below.

- Changing the left circle color to green

- 1. Click on 'Left circle color' button located in the bottom right of the window.

- 2. Click on green color from the color palette.

The left circle color is now green

- Adding a new text box to the universal list (list on the left side of the window)

- 1. Click on 'Add New Text Box' button located in the top left of the window.

Text Box is added to Universal List with default text.

- Adding 5 new text boxes named 'box 1-5' to the universal list (list on the left side of the window)

1. Click on 'Add Multiple New Text Boxes' button located in the top left of the window.

2. Click 'Add One Text to List' button 5 times
3. Click on first text and enter 'box 1'
4. Repeat step 3 for the rest of the texts
5. Click on 'Convert All Texts in List Into Text Boxes'

5 new text boxes are added to Universal List with texts 'box 1-5'.

- Changing the text in a text box to 'Hello World'

1. Right click on the desired text box.
2. Enter 'Hello World'.

The text of the text box now says 'Hello World'

- Move a text box to the right circle of the Venn Diagram

1. Click and drag the text box to the right circle.
2. Drop the text box.

The text box is now in the right circle of the Venn diagram.

- Delete a text Box

1. Right click on the text box
2. Leave the text empty
3. Click OK or press enter

The text box is no more.

- Changing the title of the Venn diagram to 'My Venn Diagram'

1. Left click on the title.
2. Enter 'My Venn Diagram'.

The title is now changed to 'My Venn Diagram'

- Changing the title of the right circle to 'Things I'm Good At'

1. Left click on the right circle title.
2. Enter 'Things I'm Good At'.

The right circle title is now changed to 'Things I'm Good At'.

