

# Requirements Document: Venn Diagram Tool

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## 1. Aim

Our team wanted to create a tool to help clients create custom Venn diagrams. Apart from features, our aim for the Venn Diagram Tool is to out-do the generic Venn Diagram tool, to go beyond. In order to understand where we're coming from one must first comprehend that a Venn Diagram is more than two circles, it is one of the most abstract methods to display information. Two circles with words inside of them is not the experience our application is meant to provide. Our product will allow our clients to unleash their creative side and change the way that information is presented. A requirement for this Venn diagram tool was to create a way for the user to check their answers to see if they are correct or not, which we want to do in a visually appealing way.

## 2. Functionalities

There are a lot of different features and functionalities available for the client, including the following:

- Add a title to the diagram
- Add a title to each circle in the diagram
- Add text and images
- Drag and drop texts, images and gifs into the circles
- Change the colours of the circles, text and the background
- Add descriptions to images, gifs and text
- Clear the Venn diagram to start over
- Delete selected text or image
- Export Venn diagram as an answer key (.vansr)
- Import an answer key
- Check if Venn diagram is correct by clicking the "Check Answer" button
- Save Venn diagram as a .venn file so that it can be reopened in the future and edited again
- Save Venn diagram as an image
- Import Venn diagram as a CSV file
- Export Venn diagram as a CSV file

### 3. Use Cases

Our Venn Diagram tool has a wide variety of applications. At its broadest, Venn Diagrams provide a visual to relationships between sets.

Use cases include:

- Visually representing similarities and differences for a professional meeting
- Visually representing similarities and differences using pictures and bright colours to a younger audience
- Adding a visual element to research that has been done
- Presenting information for a school project
- Demonstration of fundamental math concepts such as unions and sets
- A tool for teachers to test their students' knowledge on the topic they are teaching

## 4. Acceptance Test Cases

Acceptance Test Case	Critical (Yes or No)	Test Result	Comments
The system has to be able to save a .venn file and reopen it to allow edits.	Yes	Passed	Client can save their diagram and open it at a later time to edit it.
Client can customize the colour of the Venn diagram.	Yes	Passed	User can pick from a series of colours or a colour picker to change the colour of the background or the circles.
Client can drag and drop text	Yes	Passed	Client can type in text and move it to any circle they please
Client can upload and compare images	Yes	Passed	Client can chose images and upload them to their diagram.
Program adapts to screen size	Yes	Passed	If the screen size of the program is changed, the diagram is fixed and will not shift.
Client can compare their answers to an answer key	Yes	Passed	Program displays a green check mark if the answer is correct and a red X if it is incorrect
Client can undo and redo	Yes	Passed	The most recent tasks can be undone and redone

## 5. Figures

Figure 1: Landing Page

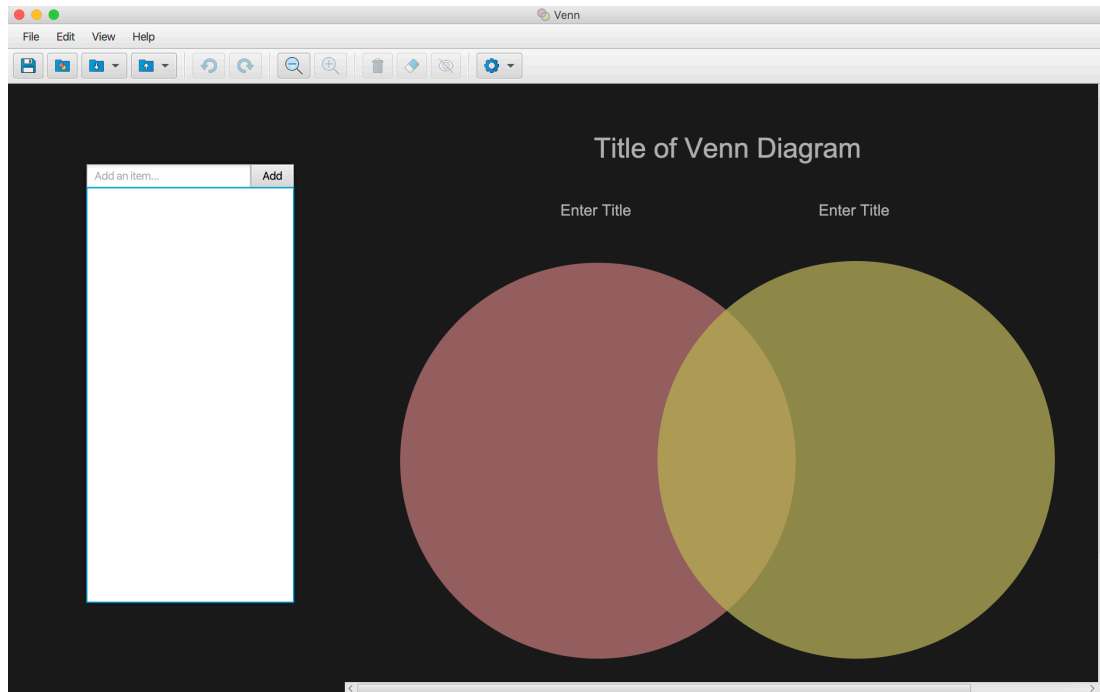


Figure 2: Settings pannel

