Group 9: Requirements Document

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1. Introduction

1.1 Purpose

The purpose of the following report is to provide a detailed explanation of our project and the requirements necessary to be considered a successful project to the reader. It is also intended for the use of the design team to help achieve the desired end-product.

1.2 Description

The application is intended for the sorting of statistical data. The user is able to create a venn diagram using a user-friendly interface. It allows you to categorize/name each circle and then generates a venn diagram. The user is free to add/remove data once the venn diagram has been generated.

1.3 Possible Uses

The real world uses of this application are limitless and can be applied practically anywhere. This application is best aimed towards sorting and categorizing statistical data that is non-numerical, (such as words, etc.).

2. Requirements

2.1 Technical Requirements

- Must be able to create 2 circle venn diagrams.
- Titles, labels will be editable.
- Users will be able to save the diagram to continue editing.
- Diagram labels will resize to fit into regions.

2.2 Functional Requirements

- User must input string that is less than maximum length
- Number of labels must not exceed the maximum limit.

3. Use Cases

3.1 Setting Up Initial Venn Diagram

Description: Initial setup of the diagram starts by user inputting two strings, each one as the name of each circle in the venn diagram.

Actors: User

Preconditions: User must input string(s) of length less than maximum allowed string length.

Postconditions: User must make sure that names were correctly inputted and should restart if incorrect.

Flow: User starts program and enters two strings to name each circle in the venn diagram. He/She then clicks enter and the named diagram is generated.

3.2 Adding Data to Venn Diagram

Description: Adding information to the different regions of the venn diagram.

Actors: User

Preconditions: User must make sure the piece of information is not over the maximum length.

Postconditions: User must make sure everything was spelt correctly and should be able to correct their mistakes.

Flow: User clicks add information, there will be a textbox for the input and a checkbox for the spot on the diagram it should appear in.

3.3 Removing Data from Venn Diagram

Description: Removing unwanted information from the diagram.

Actors: User

Preconditions: User must know for sure that they want this data to be removed.

Postconditions: The data should be completely removed without any artifacts of the previous data.

Flow: User clicks the data they want to remove then clicks the remove button.

4. Acceptance Test Cases

Description	Steps to recreate	Expected result
Rename titles.	User clicks the title label of the left, right, or intersections of circles. Label changes to textbox, where users can input a new title. Once a user is happy with the new title, they press enter and the title is changed.	Title is changed to what was entered.
Add information.	There will be a separate window for the creation	A new label is added with correct text and resized

	of new information for the diagram. User enters a sentence or word into the textbox, then checks left, right, or both. They then click add, and a new label is created in the designated spot.	to fit within the boundaries of the diagram.
Customizing Color	Users will generate a venn diagram and then will see the customize button. From there he will click on customize and will be able to enter “color name” from a defined list of colors. Once he enters the change will be applied.	Color of circles is able to be chosen and set.
Exporting Diagram to other Formats	Users will generate a venn diagram and then will be able to see the export button. He will click on it and it will export the current diagram from the program.	A copy of the venn diagram is exported and is saved where the user specifies.