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.).

1. **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.

1. **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.

1. **Acceptance Test Cases**

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| 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 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. | A new label is added with correct text and resized 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. |