**Qwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklztjjjjjjjjjjgffg6486xctehhvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnm**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SRS Final Draft  Phase 1 SRS  11/1/2014  Delivered to :  TA: Omar Khaled Ali ([o.khaled@fci-cu.edu.eg](mailto:o.khaled@fci-cu.edu.eg))   |  |  | | --- | --- | | Team Members | | | Mohammed Al\_shaheri | 20110522 | | Abdullah Fadhel Al\_Omaisi | 20120589 | | Nada Mustafa Al\_Ademi | 20120592 | | Bothaina Gamil Noman | 20120594 | |

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Chapter 1 : introduction

1.1 purpose of the system

The purpose of the project is to design charts for any data

that user enter it to the system and this charts are three types:

pie chart, line chart, bubble chart. And every one of them has

its procedure to represent data. And the advantage of

representing data in chart is the observer can know by

observing how many data or the percentage of the data

Without having to calculate it. And Chart Component

organizes all data of chart to be easily modeling.

1.2 scope of project

This software system will be Chart Component . And this

software system responsible for holding data points,

annotations, color, label and various necessary properties.

Chart component support various types of chart [line chart, pie chart, bubble chart].

Chart component allows easy addition of new charts types:

• A pie chart shows percentage values as a slice of a pie.

• A line chart is a two-dimensional scatter plot of ordered observations where the observations are connected following their order.

Chapter 1 : introduction

• A bubble chart is a two-dimensional scatter plot where a third variable is represented by the size of the points.

And the Chart Component view is to provide drawing to supported charts [line chart, pie chart, bubble chart].

1.3 Definitions Acronyms, and Abbreviations

line chart, pie chart, bubble chart

they are types of chart.

1.4 References

<http://www.tmssoftware.com/site/advchart.asp>

<https://klipfolio.uservoice.com/knowledgebase/articles/62221-how-to-build-bar-line-chart-components>

<https://developers.google.com/chart/interactive/docs/gallery/bubblechart>

1.5 review

The next chapter is overall description section of this document

gives an overview of the functionality of the product.

The third chapter Requirements Specification section and it write in technical terms Both sections of the document describe the same software product.

Chapter 2 : Over all description

2.1 Product perspective

The charts component very useful .the aim of charts system is to provide developers the path to include into their dashboards the basic chart types. there are clearly defined interfaces for the different systems .The most attractive feature of chart is the huge customization capability.

2.2 product function

In software engineering and organizational theory is

a chart which shows the breakdown of a system to its lowest manageable levels they are used in structured programming to arrange program modules .one type of charts is line it represent the connection and or ownership between activities and sub activities they are used in organization charts.

Chapter 2 : Over all description

**Use case diagrams for chart component system**

|  |  |  |
| --- | --- | --- |
| Actors name | Actors action | System response |
| **students** | 1.enter the values  2.click display  4.correct the values | 3.System indicates the value is invalid.  5.display all charts. |
| **Programmer** | 1.Add another type of chart.  2.user enter values  4.delet chart.  5.user enter values  7.change the form when representing data by charts. | 3.dis play the charts with the types that programmer adding it.  6.system doesn’t display the chart that programmer delete it.  8.display the charts with new form that programmer changed. |

2.3 User characteristic:

There is several users of the chart component system

Programmer:

Easy to maintain the whole system because they know all the details of how the system work and they have the authority to do any change in system .

**Other user like students ,businesses, professors** they only represent the data by the values they want and with any type of chart that is in system

Chapter 3 : Specific Requirements

3.1Functional requirements:

**Function requirement1: 3.1.1**

Description:

Initial parameters x , y.

Input:

The user enter the value of x , y.

process:

Storing the parameters.

Output:

Parameters are set and display all charts.

**3.1.2 Function requirement2:**

Description:

If the chart have one axis.

Input:

The user enter one value of x.

Process:

Store one value.

Output:

Draw one chart(pie chart).

**Function requirement3: 3.1.3**

Description:

Charts allow to be filled with data.

Input:

Enter two value.

Process:

Store data.

Output:

One value for x-axis and another for y-axis.

**3.1.4Function requirement4:**

Description:

Chart component support various types of charts[pie chart, line chart, bubble chart].

Input:

The user will enter x.

Process:

Store value and show percentage.

Output:

Display line chart and bubble chart.

**3.1.5 Function requirement5:**

Description:

Chart component support various types of charts[pie chart, line chart, bubble chart].

Input:

The user will enter x, y.

Process:

Store value and show percentage.

Output:

Display pie chart.

**3.1.6 Function requirement6:**

Description:

If the user enter large value , the values doesn't accepted .an error massage id displayed.