**3. Specific requirements**

**3.1 External interface requirements**

In this project,we will get tweets and location information through out twitter, and we will keep this information in a database.We will do sentiment analysis on Turkish sentences according to the tweet contents in the database.For example, positive / negative emotions , hashtags and content (specific name , organization name, etc.).So, we decided to design windows form application for this project. The aim of the project is to develop a new algorithm to do sentiment analysis on Turkish sentences. In the scope of the project, Turkish tweets in the determined areas will be analyzed by using this algorithm to figure out the opinions of the users about the selected topics.

**3.1.1 User interfaces**

* **A Colorful Map of Turkey:** In the project we will have a map of Turkey in our home page, that shows the mood of people if they generally are sad, happy or neutral this mood will be as an emoji on the map. The colors in the map will divisible into three major colors (Red for sad mood , Green for happy mood ,Yellow for neutral mood).
* **Login Page:**An other requirement will be login page for the members or the people who want to join our application.
* **The List of Categories:** Users can access what they want to tweet the sentiment analysis in this list belong to the category ,such as health or education in tweets.

**3.1.2 Hardware interfaces**

We don’t use hardware interfaces in our project.

**3.1.3 Software interfaces**

* **C# Language:** We will write the project using C # language.
* **Visual Studio 2015:** We will use Visual Studio 2015 for Windows form application project.
* **Sql Sever Mangement Studio 2012 :**Beside this, we use Sql Sever Mangement Studio 2012 for our Databse. For our application we created some Tables which are

(Tweet,User, Katagories,Hashtag and Admin Tables).These tables are related to our application.

* **NuGet :**We code our application in C# languages in windows form and we use NuGet as a provided library and some other like (using system linq) which are necessary for web.
* **GitHub:** GitHub which is a Web-based Git repository hosting service besidde this we use SoureTree so, we can design and code,and creating developer tools exactly where we want to be.
* **DevTwitter:** We take a twitter account for our application which names is (proje20152016) and we mach it with DevTwitter which is a brows that makes the tweets visible.

**3.1.4 Communications interfaces**

* **Email and Phone Number:**We will use the Email and the phone number of members in our application and get the Email form their so, we can keep in touch with them and when they be a member to our application.
* **Hashtag :** Users can add hashtag to our application and then the admin of our application will aprove it, if it is a approval hashtag.

**3.2 System features**

**3.2.1 System Feature**

**3.2.1.1 Introduction/Purpose of feature**

**3.2.1.2 Stimulus/Response sequence**

**3.2.1.3 Associated functional requirements**

**3.2.1.3.1 Functional requirement 1**

**3.2.1.3.n Functional requirement n**

**3.2.2 System feature 2**

**3.2.m System feature m**

**3.3 Performance requirements**

**3.4 Design constraints**

**3.5 Software system attributes**

**3.6 Other requirements**