Spark Clouds

Modules of the Project:

In these project mainly the modules are as follows,

1) **Editor:**

   Editor of this system will act as the Administrator. He will maintain the whole information of the system. Here Editor has given one User ID and Password with this he will login and he will access his services. His services are his operations what he can perform. His Operations in this project are as follows,

   - Creating Trends
   - Creating Tags
   - Viewing/Deleting Tags
   - Viewing Registered Users
   - Viewing Comments posted by Users

2) **Trends:**

   Tags are of different kinds. Like some tags are related to Soft ware's some tags related to EBooks. In order to differentiate them editor will create different trends like softwares and eBooks under that related tags will be posted. Here Admin will categorize the according to their types.

3) **User:**

   User can search for his required tags depending on the popularity. And if user searches for same tag for more time we can consider that that tag is having high popularity. That information is shown on Spark Cloud. In our application we are having two kinds of users registered User and unregistered user. Unregistered users can only the details of the tag but he can't view total information of files uploaded for file. Whereas registered user can access and can view whole information of file.

4) **Tag Cloud:**

In this module user can view the popularity, frequency or importance of tag in the form of font size of tag. One standard formula in order to show that information in font size. We make of this the following formulae in order to display its popularity in the form of font size. Here ti represents the number of clicks user clicked on that. Depending on that tag clouds are represented.

$$f = (fmax * (ti - tmin)) / (tmax - tmin)$$

5) **Spark Cloud:**

In this module we create spark line over time and integrated to the Tag Cloud to form Spark Cloud. Through user can only view the current popularity or demand of the tag. User can't view the information like how its popularity is changing over time. In order to do that, we integrate spark line below to tag cloud. Spark line can be drawn by considering time on x-axis and its demand on y- axis.

Future Scope

We can extend more functionality to the system.

➢ We can add more operations to registered users.
➢ We can give file uploading option to registered user for tags created by Editor.
➢ We can add functionality like mailing system among users who have registered users.
➢ Currently Editor is able to create only one trend name. We can make it such a way to create sub trends in that to categorize tags clearly.