1. **Introduction**
2. **presupposition**
3. Requirement

LMI system is a user-interactive application. It provides user with platform where they can gather in to groups. In the group, the system request that group-members should have leaders and members. It integrates with voting, sharing and discussing functions which to make it convenient for leaders and members to interact in different forms.

2.1.1 Functional requirements

Users in LMI system can create groups and invite others to your groups. Also, you can search and attend others’ groups which you are interested in.

In the group, we have four main functions. One is voting. Leader can design and generate voting in order to organize the members to make decision. Votes can be instant so that if you encounter an unexpected choice, you can make immediate reflection to solve it. Vote also can be lasting so that you can use it as a tool to design an investigation or test.

The second function is sharing. Leader can upload resource directly in the group. Resource include files, books, pictures, music and so on. Members should have the leader’s permission and then they can upload. All the group-members can download resources. According to the size of the group, there is limitation to the total amount of resource.

The third function is bulletin. Leader have the only writing authority to the bulletin. It is a place where leader publish important and emergency information.

The last function is discussing. No matter members and leaders, they can raise questions in the group. One question will induce a new page for discussing. Others’ opinions and answers can follow. The one who are replied to will receive message to remind him.

This is a very useful tool for people to deal with ‘leader-member-interaction’ mode scenario. It integrates necessary tools so that it will be convenient for users in the group to take part in different activities in just one system.

2.1.2 Non-functional requirements

1) Usability: That will be elaborated in the interface section. We pursue simple and terse interface to let users to know the function clearly and make good use of it.

2) Reliability: Our system should have a strong robustness. It will receive large amounts of application or deal with great deal of messages. The space of the database should be large enough and the method to deal with lots of useless temporary files and messages should be optimized. The safety is also important. Because it need to personal account to delivery speech, so we need to assure all the accounts’ security. Also there are means to deal with stolen accounts or white accounts.

3) Performance: Instant voting and discussion part have a great request of quick response time so that we can have immediate feedback. Sharing function also need a good program to improve the speed of uploading and downloading.

4) Supportability: Our system is expected to be transplanted to PC, Android app, iOS app and WP app so that it can realize the synchronization on one’s account from different facilities.

1. Objective

1) Improve the group system in order to be compatible for different scenarios of LMI mode.

2) Integrate tools convenient and helpful for the leaders and members in the group to interact.

3) Easy access to each function so that we can use them and transfer to other tools quickly and freely.

4) Instant message sending and receiving to make discussion on the scene. Quick upload and download to make sharing more convenient. Different kinds of votes will be for different targets as different means.

1. Condition, Supposition and Limitation

1) Minimum life time of system: 2 years

2) Time to select suitable solution: 1 week

3) Our system is sponsored directly by software engineering department of shanghai Jiaotong university, both technically and financially.

4) Conditions of developing/run-time environment in hardware and software

Hardware:

a) PIII or more advanced PC, laptop

b) Minimum runtime memory requirements: 128M

c) Hard disk space for installation: except the application server and database server,

clients use browsers to get access to the service.

Software:

a) Windows 2000/xp professional

b) Windows server 2003

5) Available information and resources: we can refer to ???

1. Feasibility Analyzing Method

1) Customer survey

2) Experts consultation

3) Market survey of similar or relevant products

1. Evaluation Criteria

The criteria of evaluating the system are: functions supported or provided by the system, time cost to develop the system, and the usability of the system.