

**BİLKENT UNIVERSITY**

**FALL 2016**

**CS 353**

**Social Network And Forum For Researchers**

**Proposal Report**

**GROUP 11**

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1. **Problem Definition**

Technological development has huge affect on every side of our life. Education has no exception. It allows us to research and collect all data we need. However, organizing and managing such data can be issue.

Our Database Project can answer such problem since it will organize the data and provide an effective communication environment for everyone. Basically, This database project consist the combination of social network features and database for articles.

1. **Requirements**

There will be functional and nonfunctional requirements as well as pseudo requirements in this system.

**Functional Requirements**

* User should sign in with using their username and password to get in the system.
* User can follow/unfollow other people.
* User can open discussion with others without following them.
* User can write articles.
* User can edit articles that he/she wrote.
* User can ask questions.
* User can edit questions he/she asked.
* User can make comments on articles and questions.
* User can see the updates of the following articles and questions
* User can manage favorite topics.
* User can choose his/her department.
* Administrators can create/delete tags.
* Administrators can create/delete institution information.
* System should restrict administrator access to specified IP address.

**Nonfunctional Requirements**

* Every user can manage his/her account whatever they want.
* Security of the user information is important for the system.

**Pseudo Requirements**

* System will be based on the web.
* System will be implemented in PHP.
* PostgreSQL will be used as a database backend.

1. **Limitations**

There are some limitations on the system that restrict time, technique and some properties .

**1 - Time and Technique**

* Database structure and data will be created until 20th November.
* Implementation of the system will be completed until 20th December.
* Application will be a web-based system.

**2 - Functionality**

* There are two types of users; administrator and normal user.
* Administrators have some extra privileges, which are creating tag and institute information.
* All researchers have same access rights.
* A researcher can upload up to 5 articles, ask up to 10 questions and comment up to 20 times in a day.
* A researcher can use up to 5 tags for his/her article or question.
* A researcher cannot update his/her article more than 3 times in a week.

1. **E-R Diagram**

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