

In The Name of God, The Merciful, The Compassionate

**Internet Engineering
Department of Computer Engineering
Sharif University of Technology – Kish Campus
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Programming assignment 2

E-Voting System

Strict deadline: 87/04/15

A company wanted you to create a simple web solution to evaluate the quality of its services among its customers. The company has provided you with a database of customer's email addresses and passwords. You will use this database to authenticate customers and let them in the system. For this, you have to design a simple web page containing two text fields in which customers will enter their own email address and pass phrase in order to log into the system. Both these two fields must be filled out so that a customer could enter the system.

You will need to use a Java Script on client's machine to check whether these two fields are filled out before submission of the login page. Using another Java Script containing a regular expression pattern, you will also validate the correct format of the entered email address as it should be in a standard form of “<userid>@<domain>”, e.g. johnsmith@example.com.

After submission of the form, if the entered email address and password match with the database records, the customer will be directed to the voting system, and will be able to choose one of the provided options and vote for it. Each customer can only vote one time, and once he submitted his vote, he cannot change it anymore.

After a customer submits his vote, the system will automatically show the updated results to him including the percentage of each option preferably in a simple colored bar. Note that this page should not be refreshed to generate and show the results; in other words, the results should be generated using the AJAX technology.

Except for those features which have been explicitly specified above, you are free to use any kind of technology stack to have this job done. Graphical interface and other visual elements are not serious, though an extra bonus point of maximum 10% may be considered for those whose work exhibit a professional and clean look.

Good luck.