**3. Proposed Software Architecture**

Survey4All is a system which you can create surveys, distribute them to public view and analyze the results. We wanted to make sure that people can create their own survey and answer the others’ surveys easily, that’s why we designed a user friendly, simple interface. The Survey4All System has 3 actors: Registered User, Unregistered User, Admin. Users can register to the system all free. Without registration, you can view and share surveys but you can not fill a survey, create/delete/edit your survey or favorite surveys. You can edit your profile and see your surveys on your profile page if you are a registered user. Survey and user informations are stored in the database. The data is retrieved from our database provider Firebase by queries.

**3.1. Overview**

The system will have a layered architecture and there will be 3 layers, which are:

1. Interface
2. Application
3. Storage

Users will be interacting with the system using the interface layer, application layer will have all the functions of the system in it and storage layer will have all the data about the users and surveys. Storage layer will have the registeredUserData, SurveysData and incomingMails. Subsystems retrieve these information from our database. Application layer will have the survey, admin, user(unregistered and registered user) subsystems. User subsystem will have the functions of register, login, searching a on the system, editing the user profile and sending messages to the website admin. User subsystem keeps some of the functions for both unregistered and registered user such as viewing surveys but some of the functions are only for registered users such as favorite survey, delete survey, create survey, edit profile.

* Registered user subsystem will keep the functions of login, editing profile, messaging, create a survey, fill a survey, favorite a survey.
* Unregistered user subsytem has access to view surveys, fill a survey, search for a survey, share survey.
* Survey subsystem handles the surveys created by registered user, will have the functions of giving a respond to the survey.
* Admin subsystem will have the functions of managing a survey such as approving or

rejecting the auction, managing the user profile such as banning their

account, delete inappropriate surveys. Admin has and managing the contact us messages.

* 1. **System Decomposition**

