**1. Introduction**

Survey4All is an survey management system developed fort he web platform using the Technologies like Angular 7 for the front end and Firebase firestore as the backend. It designed to become a collection of components that communicate flexibly with each other. Angular helps us to design visually beautiful pages for the survey4all and firestore gives us the flexiblity to store our data freely and connect it however we want. The website itself have some proffesionaly working websites on out day like; surveymonkey.com , microsurvey.com and surveey.com so on. The main difference between thos ewebsites and survey4all is, Survey4All is a survey management tool for everybody to see. So we wanted to use layered architecture on our project. Last of all our desing goals will be summarized as follows;

* Survey4All should be easy to use by all kind of users in term of usabilty
* Survey4All should be working correctly with all of it functions.
* Survey4All should be reliable in terms of saving the survey data without any fault and giving the correct results to the users all the time
* Survey4All’s codes must be Reuseable whick wil improve the efficieny and also should be flexible in terms of adding or removing parts of codes from it.
* Last of all Survey4All must be supportable for mobile devices which means it must be responsive to the screen size.

**1.1. Purpose of the System**

The main purpose of the Survey4All is provide an online-platform that everyone can create a survey about something they wonder or need and also for the wanderers , a platform where they can give their opinion about their interests and may be find get some data about a survey they wonder. Its a cost free survey management tool for everyone.

**1.2. Design Goals**

***Usability***

Since the end-user who will be using the system could be anyone in any age , it is essential for the system to be intuitive and easy to use by all kind of users.

***Multiple Users***

Survey4all should support a lot of simultaneous connections at the same time and also should be operative even if same task which efects data’s on the system done at the same time

***Reliability***

Survey4All must work %100 of the time. Survey4all is using the server support from the firebase which a product of a reliable company Google.On the code level survey4all’s all functions and operations should be tested relatively and must be crash/error free.

***Reusabilty***

Survey4All must have clear algorithms that could be developed further, the variable names should be understandable and unique, most importantly the source code and design patters should be reusable şn further development.

***Implementation***

There are no constraints on the hardware platform. There are no constraints imposed by the maintenance team. The design methodology is obtained as Agile Development Approach. System runs with firestore’s own query system in NoSQL which is more flexible than regular SQL query systems.It controllerd with the lambda notation and most of the data return as Document form. Html,Scss,Typescript languages is used in Survey4all as a part of Angular, Bootstrap ,Firebase Tools. Query based statements are handled by Firebase Firestore in NoSQL styke.

***Legal***

Survey4All does not have any license or any relative form of licensing. Its a student group project.

**1.3. Definitions, Acronyms, and Abbreviations**

* **SDD** : System Design Document
* **Survey4All** : Survey4all is a survey management Website that let users to create share or fill surveys.
* **Firestore** : Firestore is a NoSQL based cloud database developed by Google.
* **Angular**: Angular is a structural framework for dynamic web apps.
* **Bootstrap**: Bootstrap is the most popular CSS Framework for developing responsive and mobile-first websites.
* **Admin**: System actor that administrates the system.
* **Subsystem**: Collection of classes, associations, operations and events closely related to each other.

**1.4. References**

* www.surveymonkey.com
* www. microsurvey.com
* www. surveey.com

**2. Current Software Architecture**

There are several websites that are providing survey management tool for companies or the ones who willng to pay. These websites moslty provide the tool for the customer who pays fort he service.Otherwise the results of any survey is hidden from the users is not customers. On the other hand there is websites that do it for free but most of them only supports for 1 question for fast foward surveys which will be used on the internet simultaniously in the situations like a streamer wants to get feedback from its users on time-based question or similar situations like that. But survey4all is free to use by everyone who wants to create a survey about anything they want or participate and see the reulsts of a topic they interested in. Since the cost of relevant services are not for regular users and the other systems simply case-based , Survey4all can get the place among the other survey management systems.

## Hardware Software Mapping

