



Greymeter Internship Project Submission

Gigstart-Artist Rating App

Submitted By:-

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Aim:

To develop an application for Gigstart-where people can rate artists based on four parameters.

Required Functionality:-

- People should be able to rate artists using slider controls on a scale of 10.
- The four parameters are:-
 - Stage presence
 - Energy on stage
 - Audience engagement
 - Performance
- Make it as user friendly as possible.

Platform Used:-

Angular JS:



In software development, AngularJS (commonly referred to as "Angular") is an open-source web application framework maintained by Google and by a community of individual developers and corporations to address many of the challenges encountered in developing single-page applications. It aims to simplify both the development and the testing of such applications by providing a framework for client-side model-view-controller (MVC) and model-view-viewmodel (MVVM) architectures, along with components commonly used in rich Internet applications.

Firestore:



Firestore is a cloud services provider and backend as a service company based in San Francisco, California. The company makes a number of products for software developers

building mobile or web applications. Firestore was founded in 2011 by Andrew Lee and James Tamplin and launched with a realtime cloud database in April 2012. Firestore's primary product is a realtime database which provides an API that allows developers to store and sync data across multiple clients. The company was acquired by Google in October 2014.

Realtime synchronization in firestore.



In Firestore, whenever a client makes any changes to database, the change is triggered to all the clients without any need to refresh page. This is realtime synchronization provided by firestore.

App description:-

The application presents a list of artists (sorted according to rating) to the user. User can an artist.By clicking on the name of an artist a form will be shown which will contain four slider controls.The user will then input the value for these parameters using slider controls.

The average rating along with the number of people who rated a given artist is also shown.The rating is updated in real time after a user rates an artist.

The rating is calculated according to the following algorithm:-

Step 1:- Get the rating submitted by user on four parameters.

Step 2:- Calculate the average rating by user for artist as follows:-

$$\text{rating_avg} = (\text{param1} + \text{param2} + \text{param3} + \text{param4}) / 4$$

Step 3:- Calculate the new rating of the artist as follows:-

1. Get the current rating of artist and his/her current fan_count in current_rating and current_fan_count.
2. Calculate the new average as follows:-

$$\text{New_rating_avg} = \frac{[(\text{current_rating} * \text{current_fan_count}) + \text{rating_avg}]}{\text{Current_fan_count} + 1}$$

Step 4: Update this new rating in database and also to the screens of other clients.

** The whole real time update is facilitated by firebase API.

Fig.1 The snapshot given below shows the list of artists(home screen):

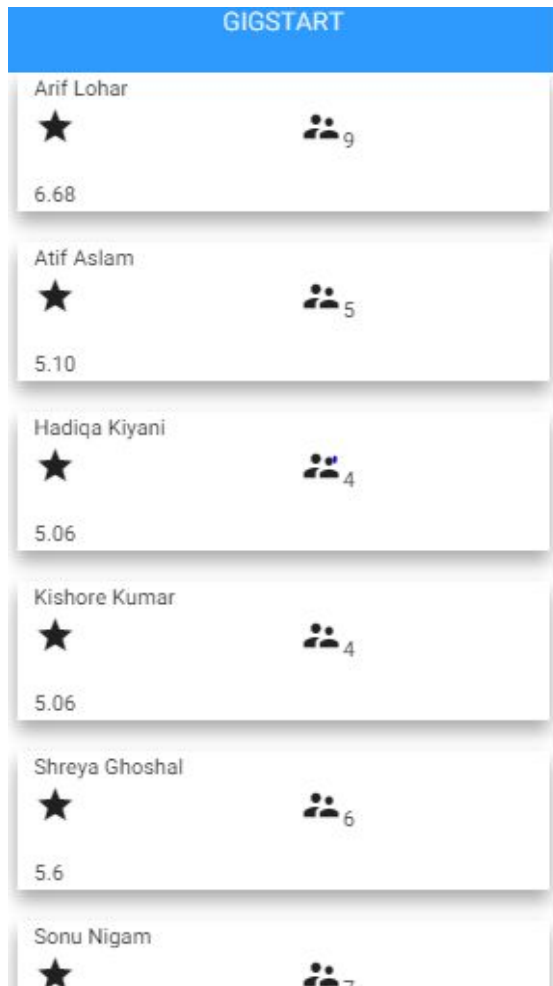


Fig.1

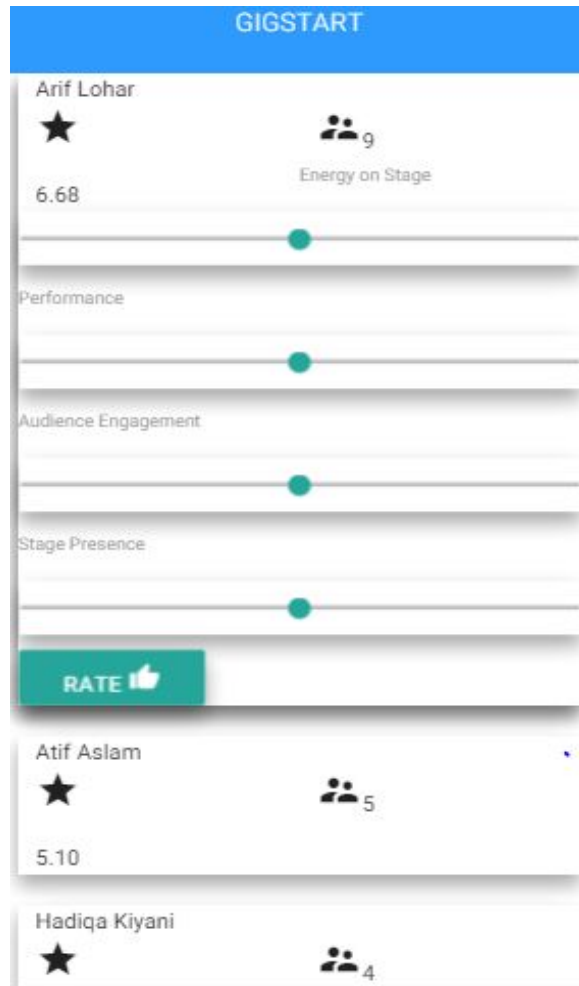


Fig.2

Fig.2 The snapshot showing a particular artist along with the form to rate the artist.