

Parshvanath Charitable Trust's

A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE

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Developing Smart ML Based Recommendation System

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Introduction

- Rapid development of mobile devices and internet has made possible for us to access different music resources freely.
- Due to the increase in the number of mobile users, developing a Smart recommendation system can also increase the audience for the market which is based on music.
- The reason behind developing the recommendation system is that it will help users to get personalized results.
- Thus, there is a strong need of a good recommendation system.
- Here we are developing a Smart Recommendation system which will recommend Music as well as video format of playing music, To make it more efficient we are integrating it with voice-assistant.

2. Objectives

- 1. To build Cross platform application
- 2. To build a hand-free application.
- 3. To keep a track of frequently played music.
- 4. To provide recommendations based on users' preferences.
- 5. To provide suggestion for video link of played music.

Problem Definition

Problem Definition:

- 1. The number of music available exceeds the listening capacity of a single individual.
- 2. Therefore it is sometimes difficult to choose from millions of music.

Problem Solution:

- 1. To manage this user needs a recommendation system which can help their user to introduce new music by giving quality of recommendation.
- 2. Our system is developed as a music with its videos recommendation system that can give recommendations based on similarity and rating features.

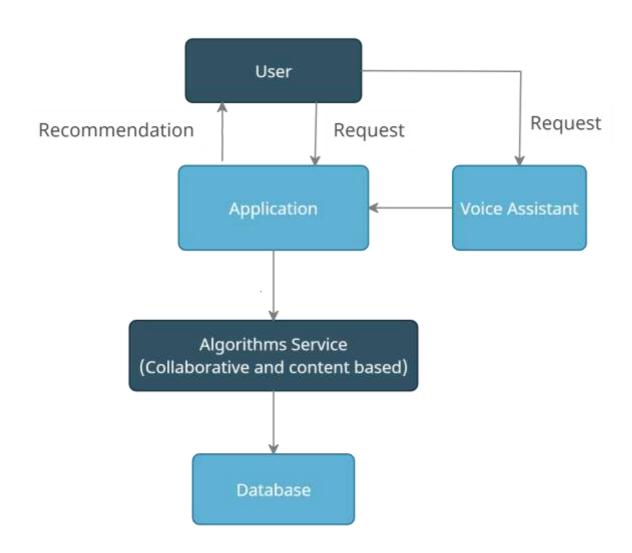
Technology Stack

- Frontend:
- > Flutter
- Backend:
- > Firbase
- ➤ BigQuery
- > TensorFlow
- > Algorithms:
- > Hybrid Algorithm (Collaborative Filtering and content based)
- •AI Voice Assistant : DialogueFlow-Flutter Library

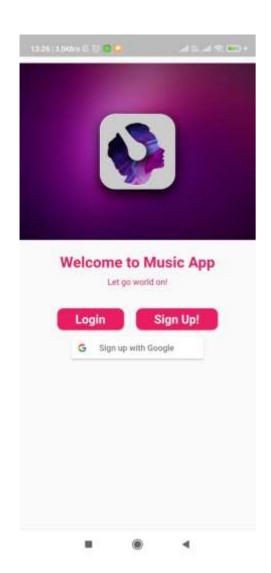
Review Suggestions (Given in Last meeting)

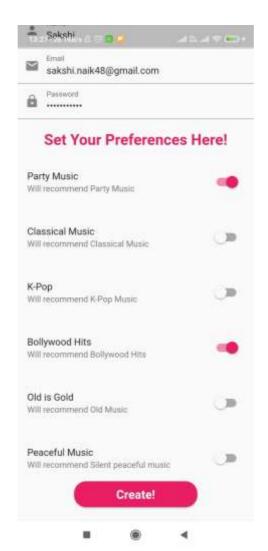
- 1. Target Standard Publication.
- 2. Objective should be clearer.
- 3. Modify implementation of chatbot.

Block Diagram to propose project Idea



Prototype Design Demonstration







Implementation Status

- 1. Completed With Login and Sign Up UI for user with collecting their preference.
- 2. UI Music Player and Video Link Recommendation is being Done.
- 3. Firebase for Database is being created but while connecting it modules pages start rendering.

Publication

1.	Submitted-3rd International Conference On Emerging Technologies In Data Mining An
	Information Security

Thank You...!!