



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE
(All Programs Accredited by NBA)

Department of Information Technology



Smart music with mood detection

21204012 Dhruvi Haria

20104137 Hitesh Sachdev

20104050 Aman Yadav

20104113 Sushant Waghmare

Project Guide
Prof. Shweta Mahajan

Contents

- ❖ **Introduction**
- ❖ **Objectives**
- ❖ **Scope**
- ❖ **Literature Survey**
- ❖ **Proposed System**
- ❖ **Block Diagram**
- ❖ **Use Case/DFD**
- ❖ **Technology Stack**
- ❖ **Result & Discussion**
- ❖ **Conclusion & future scope**
- ❖ **References**

Introduction

❖ Problem Identified :

Most application does not recommend the music according to users emotion

❖ Solution Proposed :

So we have come up with this idea where user will get music playlist according to their mood by analyzing their facial expressions

***IN
"TRUE ARTISTIC EXPRESSION LIES
CONVEYING EMOTIONS"***

Objectives

- ❖ To build user friendly website.
- ❖ To analyze the user's image , predict the expression of the user and suggest song suitable to detect mood.
- ❖ To accurately detect the four basic emotions, namely normal, happy, sad and surprise.
- ❖ To integrate the music player into proposed model to play the music based on the emotions detected.
- ❖ To get every type of mood songs, user can click on random mode.

Scope

- ❖ Our proposed system mainly focuses on playing and recommending the songs according to end user current mood or betterment for the relax mind.
- ❖ To understand the scope of the project in depth, massive research needs to be done in order to figure out the current technology in facial expression detection and the used of the technology.

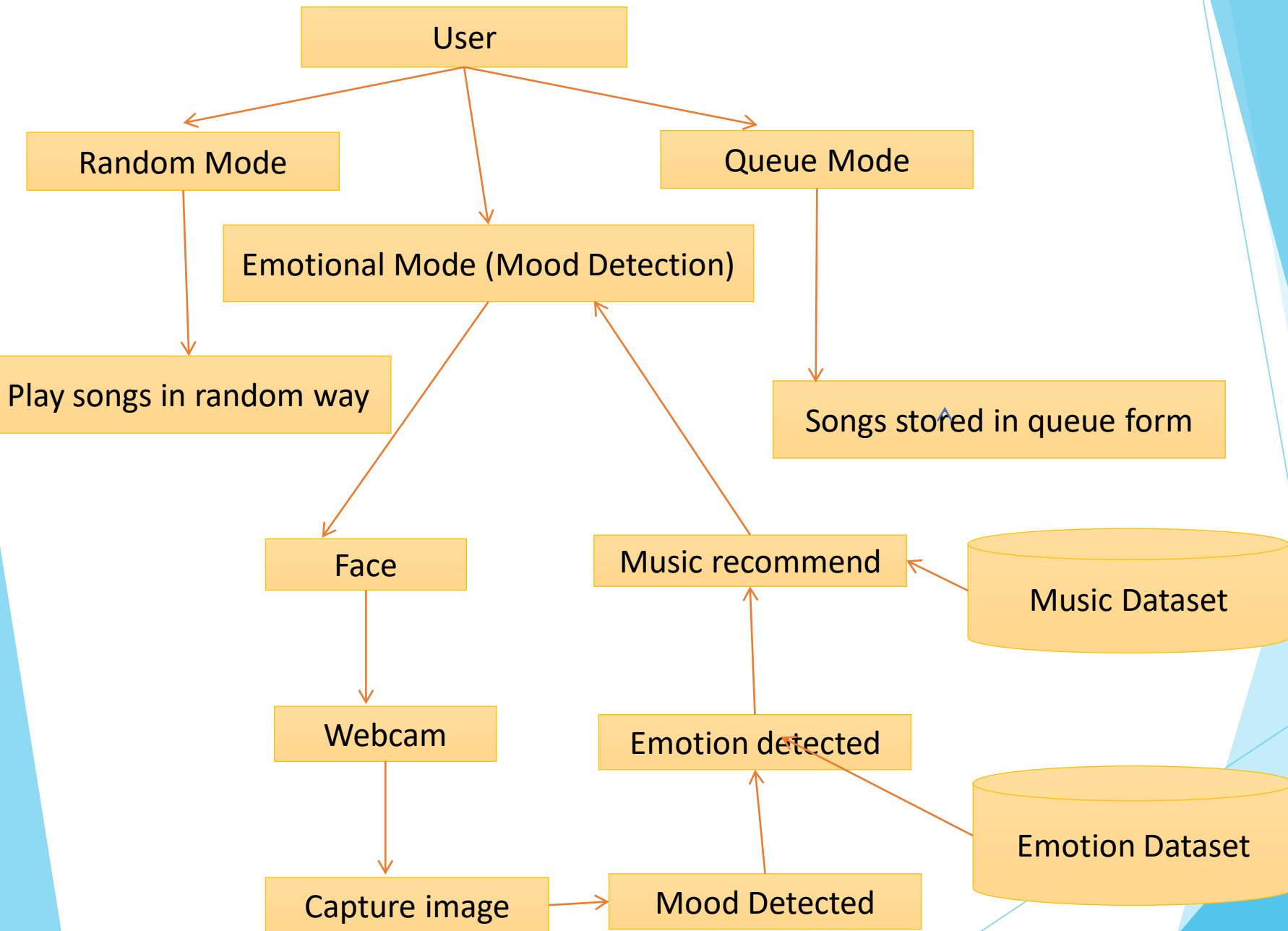
Literature Survey

Sr. No.	Paper title	Author	Algorithm used & Function	Advantage	Disadvantage
1.	Smart music player based on emotion detection	Bharat Bharadwaj, Fakiha Amber, Varis Ali Khan	Haar Function	Increases its efficiency.	Time consuming
2.	Emotion based smart music player	Bharat K.V. Chandan M.N.	Convolutional neural networks (CNN)	Better performance Good accuracy. Less complex	Same kind of source is played Manually search songs based on their mood.

Proposed System

- ❖ Now-a-days the number of available songs is too high for a person , even if listening to music for their relax mind.
- ❖ People sometimes feel it is difficult to choose one song as per their mood from a list of million songs.
- ❖ Smart music player using mood detection is a system capable of identifying or verifying a person's mood from an image captured.
- ❖ Website will capture the facial image of a person and is further scanned , recommends the song ass their mood.
- ❖ Music is categorized as a comfort which is very calm for heart and mind both.

Block Diagram

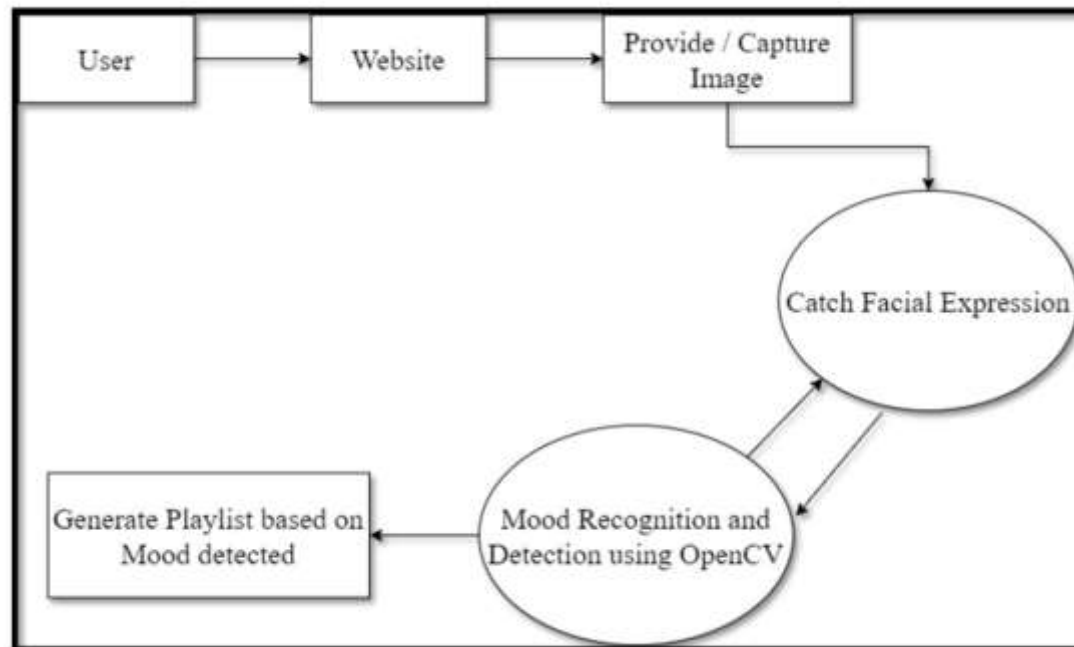


DFD



DFD LEVEL 0

DFD LEVEL 1



Technology Stack

Sr. No.	Name of the Software	Specification	Quantity
1	Any OS	Windows 8 or above	1
2	Python	Python 3.7 or above	1
3	OpenCV	OpenCV 2 or above	1

Result & Discussion

- ❖ Result of a smart music with mood detection project is a model that can detect and recommend the music from emoji which is display on website.
- ❖ This model is trained using algorithm of detecting the emotions, which results in music to relax a persons mind.

Thank You...!!