



Submitted to Hack@SKCET



G-Lock

Lock your Grin
By Team Xpand Reality



Team Name– Xpand Reality



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Problem Statement



Mental Health Care

A lot of adolescents had faced depression and mental health issues during the pandemic.

To address this issue we propose a solution;
A web application called G-LOCK

G-LOCK is a web application that helps the user improve their mental health by suggesting activities, videos, music, memes etc.

It provides training to overcome fears such as fear for public speaking etc by allocating points and increasing them as the activities are completed.

It gives daily notifications and messages to improve user mood.

Using MACHINE LEARNING and CONVOLUTIONAL NEURAL NETWORK, it identifies the user's mood using facial expressions and suggests music and activities to overcome negative emotions

Proposed solution



DOMAIN :
MACHINE LEARNING



Features

Notify Activites



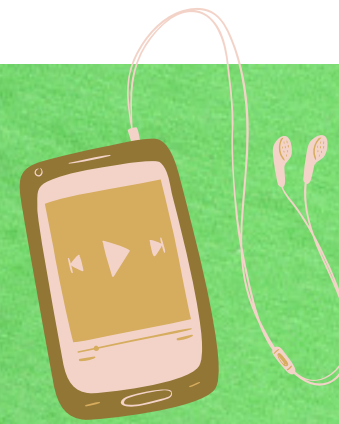
specific
challenging
activities



Suggest
Exercise

MEMES

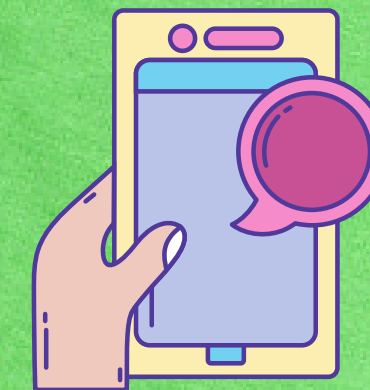
Meme page



Plays Relaxing
Music



Play Motivational
or Comedy videos

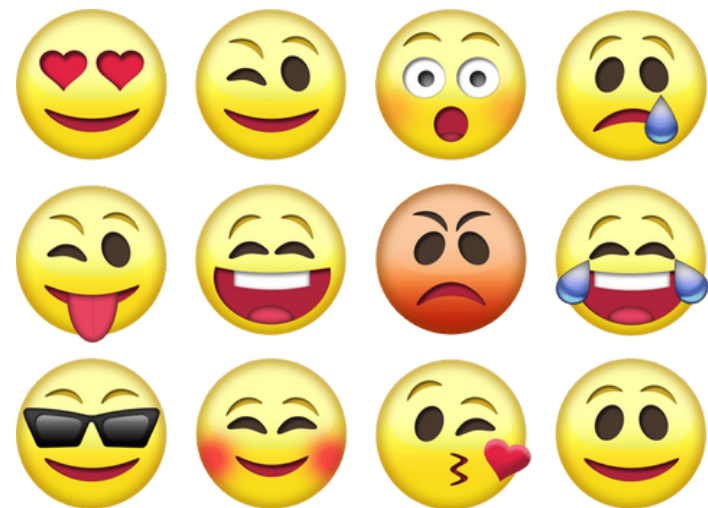


Delivers encouraging
messages/notifications
on a daily basis

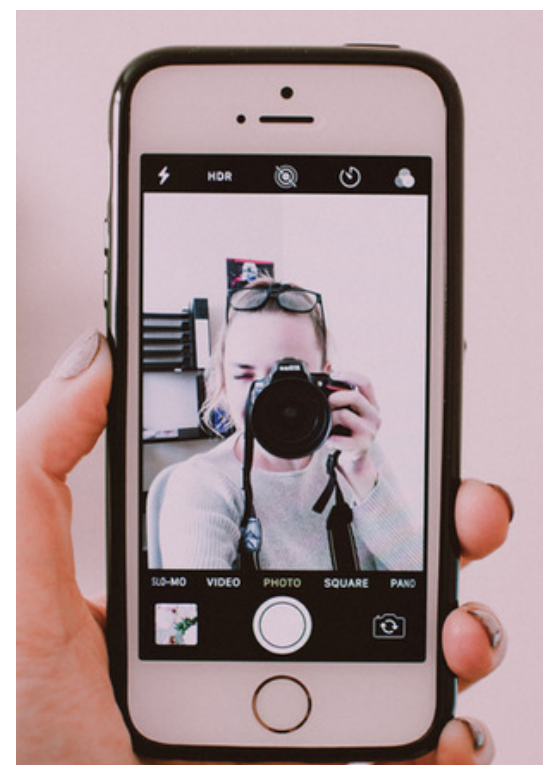


Contact mental
health specialists

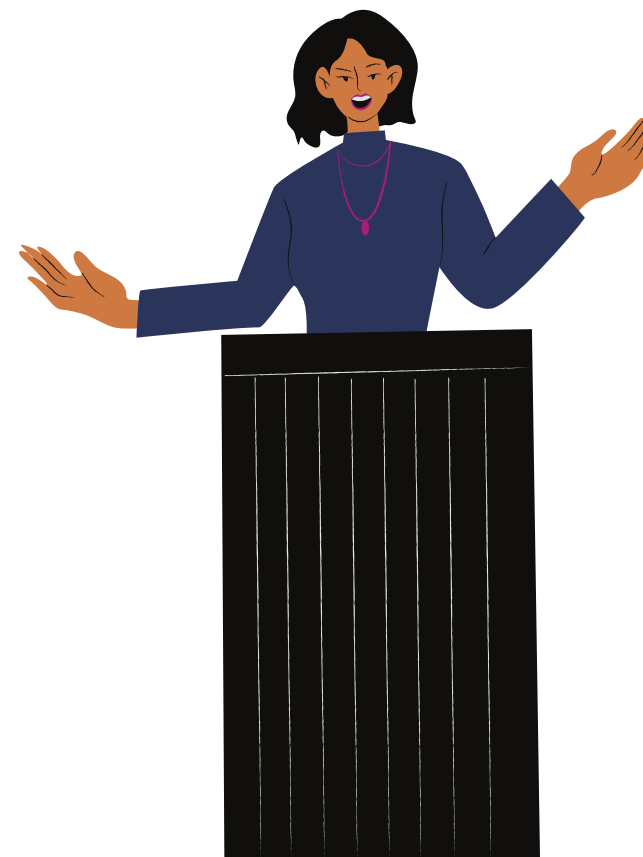
Novelty



Live Emotion
Detection



Fight certain fears
such as public
anxiety by improving
points via doing
specific daily tasks.



Play music according
to user mood using
spotify

Teck Stack

Front-End



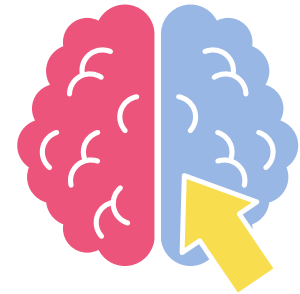
Back-End



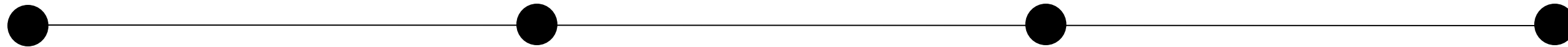
Flask

Database





Implementation



Haarcascade

Object Detection
Algorithm used to
identify faces in an
image

Vgg16

Convolutional Neural
Network (CNN) model for
image classification

fer2013

Data Set used to train
Vgg16 machine Learning
Model

Spotify API

Web API that fetches
data from the Spotify
music catalog




EmoDetect page



G-Lock

Start video Stream

Stop video Stream

Capture Image

Integrated with Spotify 




Login to spotify

Devices

Web Playback SDK Quick Start F

Refresh Devices

Play in Device




Currently Playing

Intentions - Acoustic
Justin Bieber

Play

Pause

suggestions



Note: If apt song not found in user playlist , song played from app's playlist.



Thank you!

By team : Xpand Reality

Any question?

