



CAPTURE A MOMENT

PROJECT: IMAGE TO SONG GENERATOR APP

CREATE A SONG



project members



*balsam
majadly*



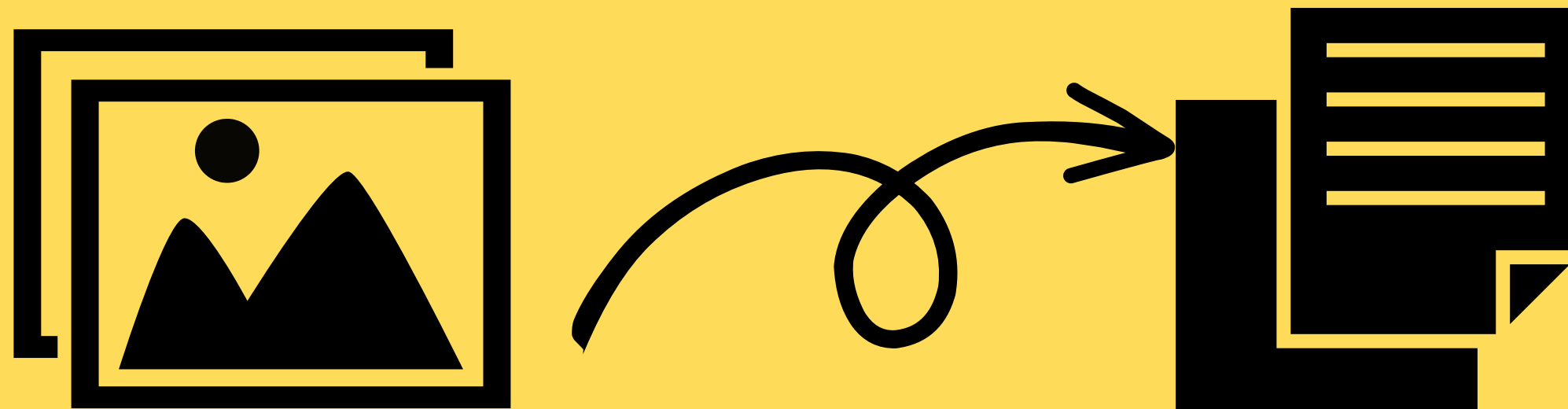
*hadeel
nassar*



INTRODUCTION



Welcome to a realm where images
come alive, Where creativity
takes flight, and dreams thrive.
With AI's mighty power, music's
tender grace, We present an app
that'll put a smile on your face.



Functionality



IMAGE TO TEXT CONVERSION



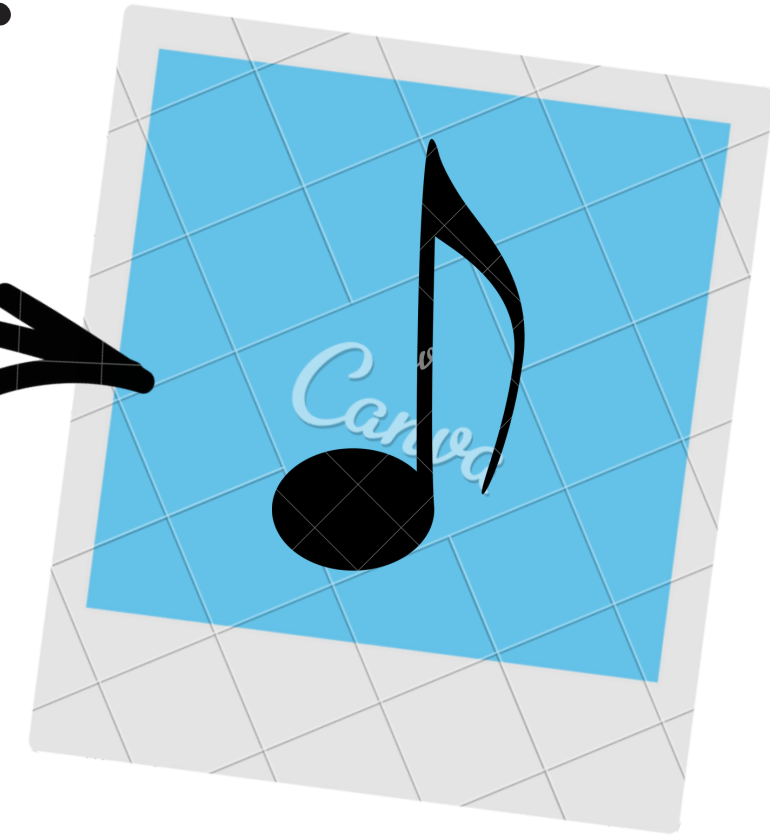
TEXT TO SONG LYRICS CONVERSION



TEXT TO AUDIO CONVERSION

IMAGE TO TEXT CONVERSION

- Transform uploaded images into meaningful text descriptions.
- leverage the cutting-edge "Salesforce/blip-image-captioning-base" model for highly accurate image captioning.
- Captions provide a textual representation of the image's content.



Functionality

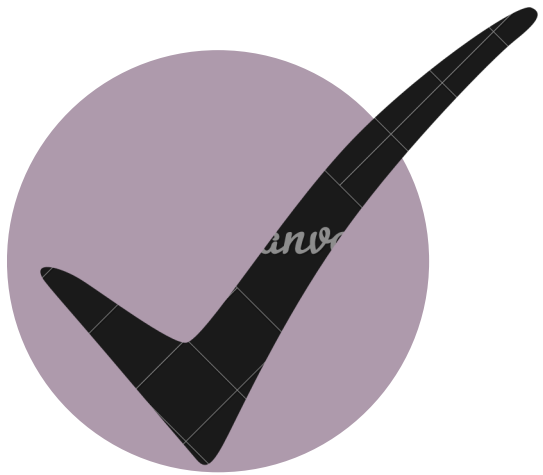
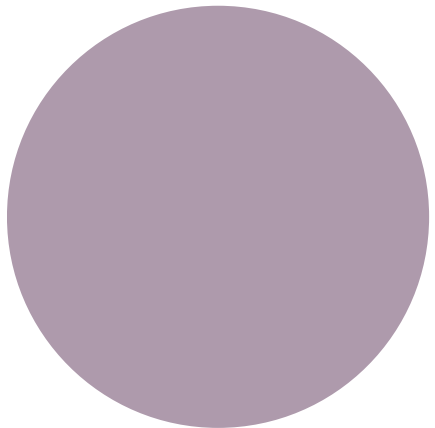
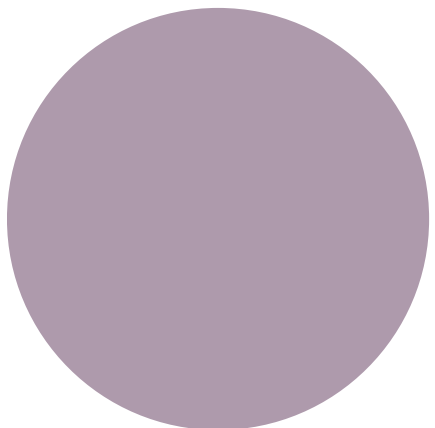


IMAGE TO TEXT CONVERSION



TEXT TO SONG LYRICS CONVERSION



TEXT TO AUDIO CONVERSION



- The input for this functionality is a description of an image .
- use OpenAI API to craft lyrics that align with the description of the image
- The output words match the image's emotions, colors, and mood...

Functionality

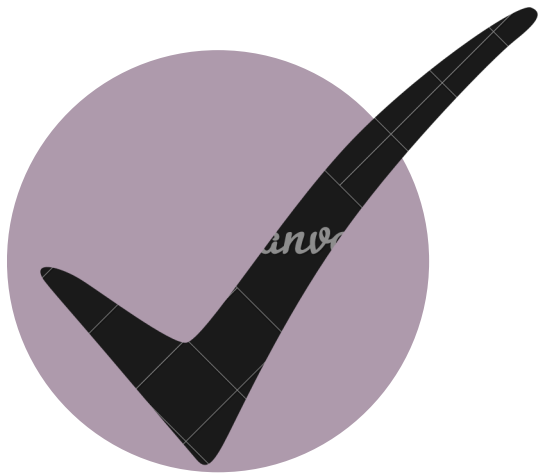
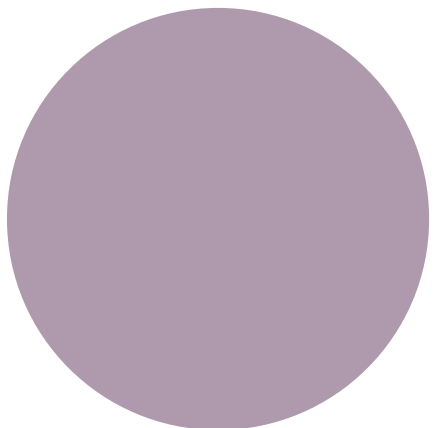


IMAGE TO TEXT CONVERSION



TEXT TO SONG LYRICS CONVERSION



TEXT TO AUDIO CONVERSION



Text to Audio Conversion



- Convert the generated song lyrics into audio.
- Utilize *gTTS library* to convert lyrics to speech and save as an MP3 file.
- The output is a speech synthesis that sounds entirely natural

Functionality

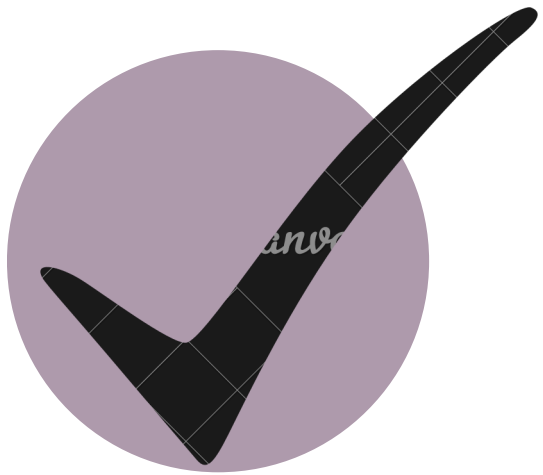
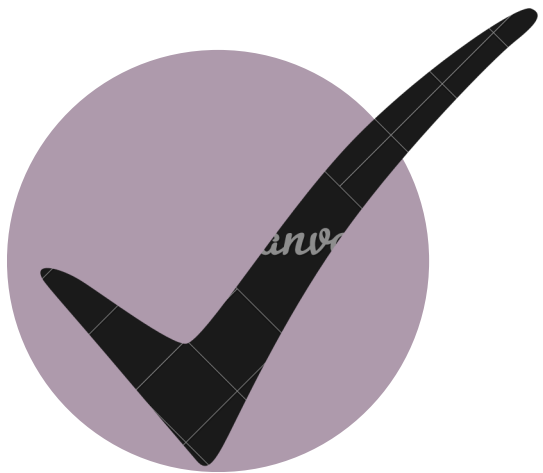


IMAGE TO TEXT CONVERSION



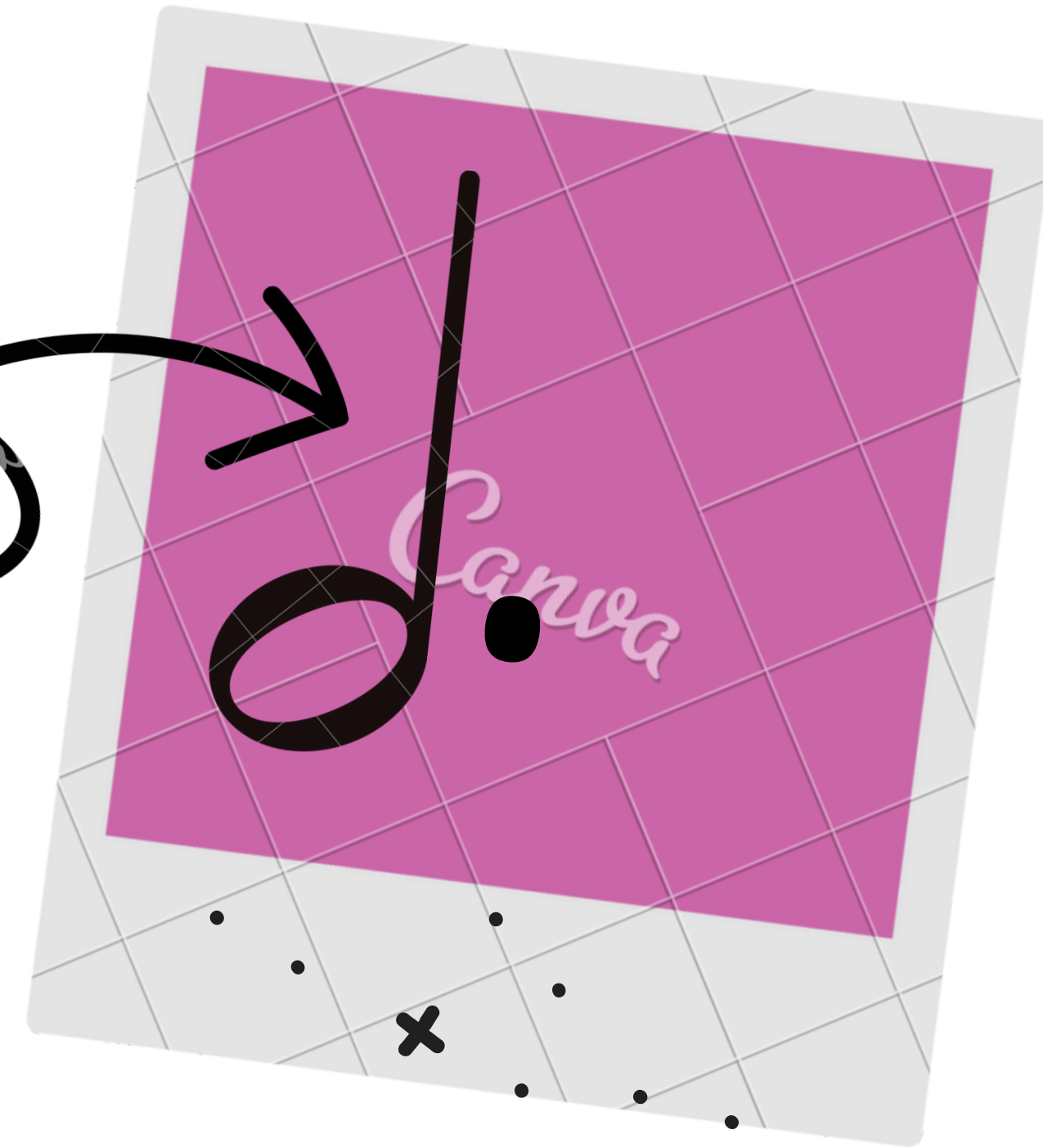
TEXT TO SONG LYRICS CONVERSION

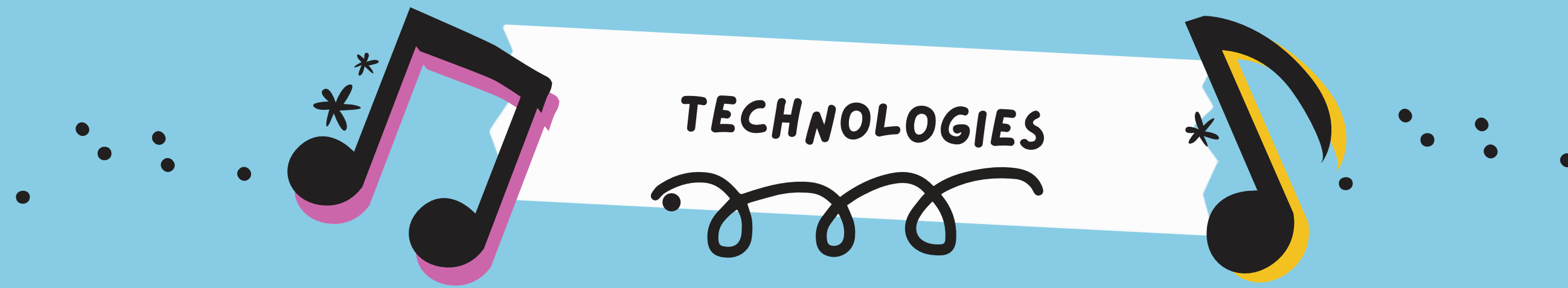


TEXT TO AUDIO CONVERSION

USER EXPERIENCE

- Users upload images to spark their creativity.
- The app transforms the image into text and generates song lyrics.
- Users can listen to their generated song through audio playback.





- **Flask:** Web framework for handling requests and rendering templates.
- **OpenAI API:** For image captioning and generating song lyrics.
- **gTTS (Google Text-to-Speech):** Converts text to audio for the generated song.



FUTURE ENHANCEMENTS

-Enhanced User Interface:

****** Elevating the visual design and user interface for a more polished and user-friendly look.

- Integration with Music Platforms:

****** Enabling users to export their generated songs to popular music platforms for wider sharing.

-Generating song lyrics from a video.

