

# PICTOMOTION

by TEAM OXYGEN

# BRIEF ABOUT THE IDEA:

1. AI system converts images into films with subtitles and sounds and algorithms study the image to recognize items and scenes.
2. Deep learning models for image captioning and by text-to-speech synthesis, the captions are given voice.
3. Better alternative for graphic story telling
4. Video summary can be created using the technology. By offering audio descriptions, it can benefit blind people.
5. NLP and computer vision techniques are used by the system and enables the transformation of static images into animated videos with captions

# OPPORTUNITY :

1. The AI system is excellent at creating precise and insightful captions for transformed photos.

2. Speech Synthesis: The AI system produces high-quality, natural-sounding speech

3. Integration and Accessibility: The system provides user-friendly APIs and interfaces for simple integration into processes or other applications

4. Performance and Speed: The AI technology quickly and accurately converts still images into movies with spoken descriptions.

5. Training Data and Generalisation: The system was trained using a variety of large-scale datasets, enabling it to handle a variety of images and deliver reliable results.

# LIST OF FEATURES OFFERED:



## Solution 3

Image Analysis: The AI system analyzes the content of input images, understanding objects, scenes, and visual elements.

## Solution 4

Caption Generation: Descriptive and accurate captions are generated by the AI, describing the visual content of the images

## Solution 1

Video Generation: The AI stitches the input images together, creating a smooth video sequence with transitions between frames.

## Solution 2

Speech Synthesis: The AI converts captions into human-like speech using text-to-speech synthesis.

## Solution 5

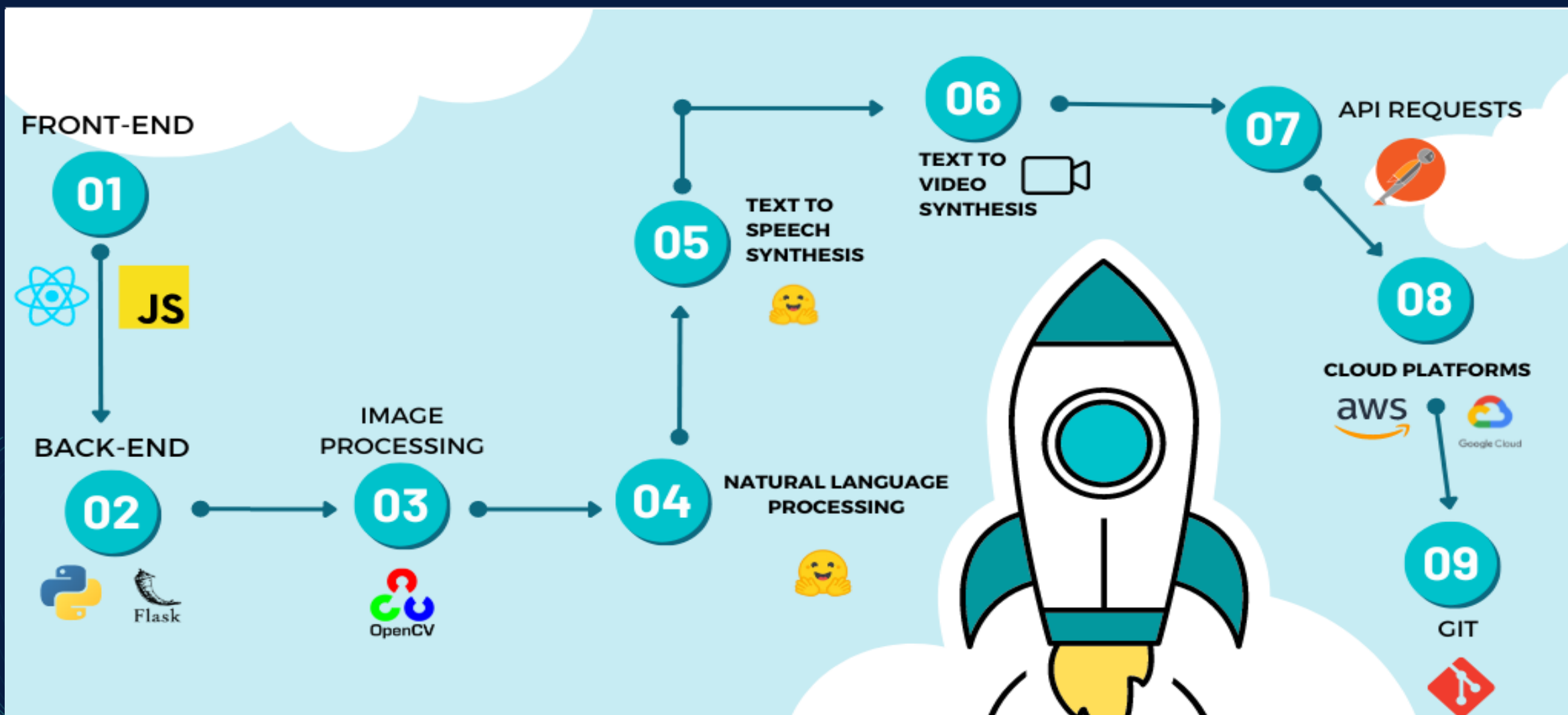
Customizable and Real-Time: The AI system offers customization options and can handle real-time processing, accommodating user preferences and providing prompt results.

## Solution 6

Audio-Visual Synchronization: The AI synchronizes the generated speech with the corresponding frames in the video for accurate depiction.



# PROCESS FLOW:





# BUSINESS LOGIC OF OUR SOLUTION :

This business model is essential for guiding strategic decision-making, attracting investors, and ensuring sustainable profitability.

## Strategy 1

**Service Offering:** Provide an online platform or application that allows users to convert images into videos with captions and speech.

**Freemium Model:** Offer a basic version of the service for free, with limited features and a set number of conversions per month.

## Strategy 2

**Premium Subscription:** Introduce a subscription model that unlocks additional features, such as unlimited conversions, faster processing times, advanced editing tools, and priority support.

**Enterprise Solutions:** Target businesses and organizations by offering customized plans and pricing, including bulk conversions, API integrations, white-labeling options, and dedicated support.

## Strategy 3

**Licensing and Partnerships:** Explore partnerships with other platforms or companies to integrate or resell your image-to-video conversion capabilities. License your technology to enhance other products or services.

# Tech Stack :

## FRONTEND

REACT  
JAVASCRIPT  
Three.JS

## BACKEND

FLASK  
JINJA

## API

POSTMAN  
HUGGING FACE

## CLOUD PLATFORM

Amazon Web Service  
Google Cloud Platform



# ESTIMATED COST:

1. Development team: The size and expertise of the development team will impact the cost. Hiring experienced AI engineers, data scientists, and developers will incur higher expenses.

2. Data acquisition and preparation: Collecting and curating high-quality dataset of images, videos, captions, and speech data .Depending on the specific requirements, may involve purchasing existing datasets and creation of custom dataset

3. Infrastructure and computing resources: Training and running AI models is computationally intensive. The cost of cloud computing resources, such as GPUs or TPUs, for training and inference can add up, particularly if we require high-performance hardware.

4 Model development: Developing the AI model itself involves iterative experimentation and optimization and requires significant time and expertise.

5. Maintenance and updates: Ongoing maintenance, bug fixes, and updates to keep the system up to date and requirements will contribute to the overall cost.

