PROJECT DOCUMENTATION IDEATION PHASE

Define the Problem Statements

Date	4 November 2023
Team ID	NM2023TMID10148
Project Name	How to create a Brand Promo Video using Canva.

Problem Statement:

The task at hand is to produce an engaging and visually appealing promotional video for a specific brand or business using Canva, a popular online design and video editing platform. This video should effectively convey the brand's message, values, products, or services, and captivate the target audience. The main key objectives are

Define the Brand Identity: Clearly understand the brand's identity, including its mission, vision, values, and unique selling points.

Target Audience Analysis: Identify and understand the target audience for the brand, considering demographics, interests, and preferences.

Content Planning: Develop a content plan that outlines the key messages, visuals, and calls to action that need to be included in the promo video.

Storyboard Creation: Create a storyboard or outline of the video's sequence, including the scenes, transitions, and any text or graphics to be incorporated.

Visual Design: Utilize Canva's design features to create or source high-quality visuals, such as images, videos, and graphics, that align with the brand's style and messaging.

Text and Copywriting: Craft compelling and concise copy for any text elements in the video, such as titles, captions, and on-screen messages.

Video Editing: Assemble and edit the video content using Canva's video editing tools, ensuring smooth transitions, music, and any necessary effects.

Branding Elements: Incorporate the brand's logo, colors, and other branding elements consistently throughout the video.

Music and Audio: Select suitable background music or sound effects that enhance the video's mood and message.

Review and Revisions: Review the video multiple times, seeking feedback and making necessary revisions to improve its quality and effectiveness.

Export and Distribution: Once the video is finalized, export it in the appropriate format for the intended distribution channels, such as social media, websites, or email marketing.

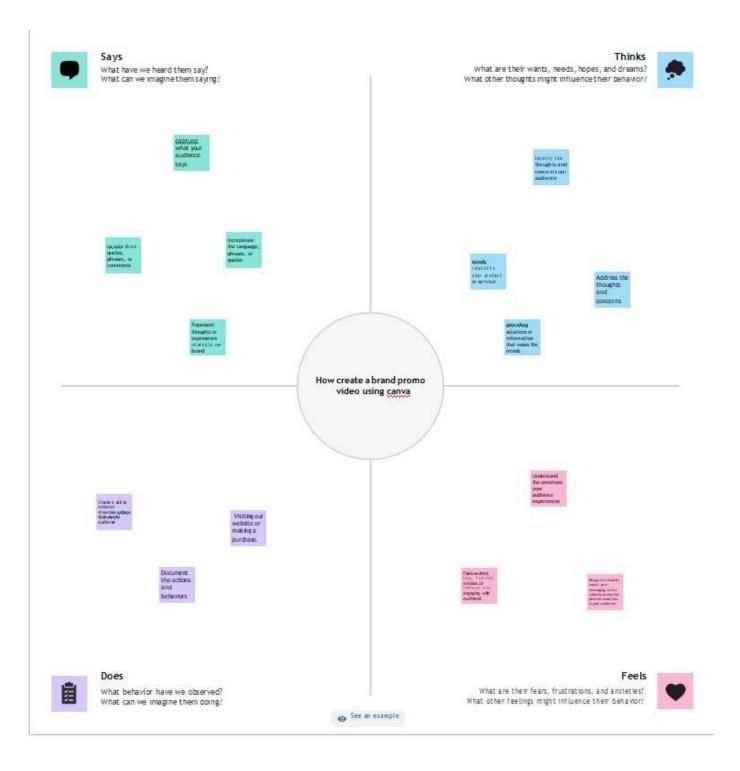
Measuring Success: Define key performance indicators (KPIs) to measure the video's success, such as views, engagement, and conversions, and implement a plan for monitoring and analyzing these metrics.

IDEATION PHASE

Empathize & Discover

EMPATHY MAP CANVAS:

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes. It is a useful tool to helps teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.



IDEATION PHASE

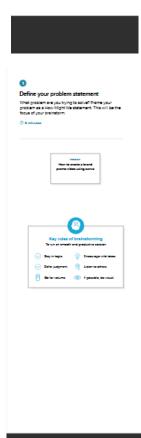
Brainstorm & Idea Prioritization Template

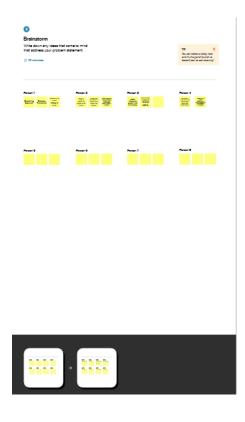
Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions. Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.



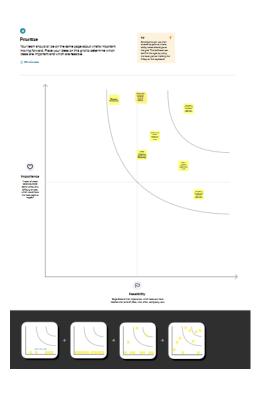














PROJECT DESIGN PHASE-I

Proposed solution

Proposed solution template:

S.No	Parameter	Description
1	Problem Statement	The task at hand is to
	(Problem to be solved)	produce an engaging and
		visually appealing
		promotional video for a
		specific brand or business
		using Canva, a popular
		online design and video
		editing platform.
2	Idea / Solution	Storyboard Creation :
	description	Start by outlining the key
		points you want to
		highlight in your promo
		video. Determine the
		storyline, key messages,
		and the visual sequence
		of your video.
		Gather Brand Assets:
		Collect all the necessary
		brand assets, including
		your logo, brand colors,
		fonts, images, and video
		clips that represent your

		brand's identity and
		products/services.
3	Novelty / Uniqueness	Unleash the power of
		your brand's story with a
		one-of-a-kind
		promotional video using
		Canva's dynamic
		features. Our approach
		focuses on weaving a
		visual narrative that
		resonates with audiences
		on a deeper level.
		Through a meticulous
		blend of captivating
		visuals, seamless design
		elements, and compelling
		storytelling, we create a
		bespoke video experience
		that encapsulates the very
		essence of your brand.
4	Social Impact / Customer	Our approach to crafting
	Satisfaction	a brand promo video
		using Canva is deeply
		rooted in ensuring an
		experience that leaves
		your customers not just
		informed, but delighted
		and engaged. We begin
		by understanding your
		brand's unique value
		proposition and the key
		messages you wish to
		convey. Using Canva's
		versatile tools and
		extensive library of
		visuals, we meticulously
		design a video that

5	Business Model (Revenue Model)	speaks directly to your audience's needs, desires, and emotions. Service-Based Pricing: The primary source of revenue comes from offering video creation services using Canva. The pricing structure may vary based on the complexity of the video, its duration, customization level, and additional services provided.
6	Scalability of the Solution	Efficient Workflow Standardization: Establishing standardized workflows for video creation using Canva allows for efficient and consistent production. Templates, predefined styles, and standardized procedures streamline the process, enabling rapid scaling. Template Utilization: Canva provides a vast library of customizable templates. Using these templates for various types of brand promos ensures scalability. Repurposing templates

with minor adjustments
significantly reduce
production time, allowing
for the creation of
numerous videos in a
shorter period.

PROJECT DESIGN PHASE-I

Solution Architecture

Solution Architecture:

Solution architecture is a complex process – with many subprocesses – that bridges the gap between business problems and technology solutions.

Step 1: Define the Objective and Message

Clearly outline the purpose of the brand promo video. Identify the core message, target audience, and the key points you want to highlight about the brand or product.

Step 2: Script and Storyboarding

Script Writing: Draft a script outlining the narrative, dialogues, or text that will accompany the video.

Storyboard: Create a visual representation of how each scene will flow. You can sketch this out or use Canva's storyboard templates.

Step 3: Gather Resources

Collect all the necessary resources such as brand logos, images, videos, and any specific text or music that will be part of the video.

Step 4: Using Canva

Access Canva: Log in to your Canva account or create one if you haven't already.

Select Video Template: Choose a video template that best fits your brand and the story you want to tell.

Customization: Modify the template to suit your brand. Use Canva's extensive library of elements to add text, images, animations, and effects.

Storyboard Implementation: Use the storyboard as a guide to arrange scenes and elements in the video editor.

Text and Visual Enhancements: Add text overlays, animations, transitions, and effects to make the video engaging.

Brand Integration: Ensure brand logos, colors, and messaging align with your brand guidelines.

Step 5: Editing and Review

Preview and edit the video to ensure coherence, consistency, and quality. Check for any errors or elements that might need adjustment.

Step 6: Exporting and Distribution

Once satisfied with the video, export it in the desired format. You can choose different formats suitable for various platforms (e.g., Instagram, YouTube, etc.). Ensure it meets the platform's specifications for resolution and size.

Additional Tips:

Music and Sound: Add background music or sound effects to enhance the video's impact.

Voiceover: If needed, consider adding a voiceover to complement the visuals.

Length: Keep the video concise and attention-grabbing. Ideal promo video length varies by platform but generally should be under 2 minutes.

Solution Architecture Diagram:

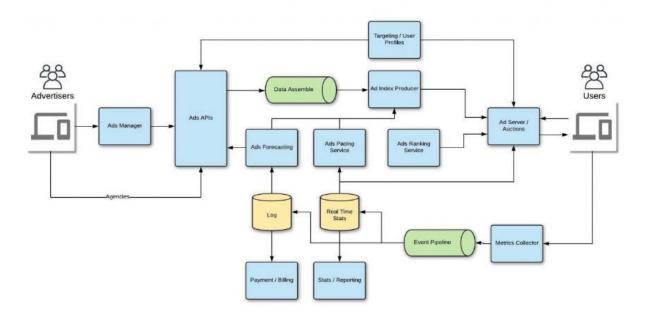


Figure 1: Architecture to create a Brand Promo Video using Canva.

Determine the Requirements (Customer journey Maps)



Requirement Analysis (Functional, Operational, Technical)/Flowcharts

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement(Epic)	Sub Requirement (Story/ Sub-Task)
	Requirement(Epic)	
FR-1	Video Editing	Canva should provide the necessary tools for
	Tools:	video editing, such as trimming, cutting, and merging video clips.
FR-2	Video Templates	Canva should offer pre-designed video templates
		suitable for brand promotion, allowing users to
		choose a template that aligns with their brand
		identity
FR-3	Customization	Users should be able to customize the templates
	Options:	to match their brand colors, fonts, and style.
FR-4	Text Overlay:	The platform should allow to add text overlays to
		convey brand messages or to highlight key points
		in the video
FR-5	Image and Video	Users must be able to upload their brand assets,
	Upload:	including images and videos, to be included in
		the promo video.

Following are the Operational requirements of the proposed solution

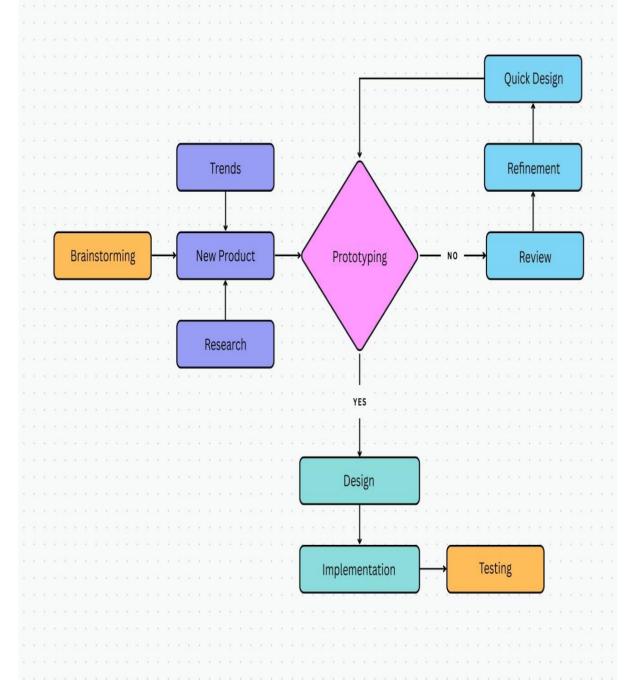
FR No.	Operational Requirement(Epic)	Sub Requirement (Story/ Sub-Task)
	Kequirement(Epic)	
FR-1	User Accounts	Users should have the ability to create and
		manage individual or team accounts on
		Canva to collaborate on video projects.
FR-2	Accessibility	Canva should be accessible from different
		devices and operating systems to
		accommodate
FR-3	Internet	Users need a stable internet connection to
	Connection	access Canva and work on their brand
		promo video projects.
FR-4	Software Updates	Canva should regularly update its software
	P	to fix bugs, improve performance, and add
		new features.
FR-5 Security and The platform should of		The platform should ensure the security and
	Privacy	privacy of user data and video projects,
		especially when dealing with sensitive
		brand assets.

Following are the Technical requirements of the proposed solution

FR No.	Technical Requirement(Epic)	Sub Requirement (Story/ Sub-Task)	
FR-1	Compatible	Canva should support a range of devices,	
	Devices:	including desktop computers, laptops, tablets, and smartphones, running various operating systems (Windows, macOS, iOS, Android).	
FR-2 Browser Canva should b		Canva should be compatible with popular	
	Compatibility	web browsers like Google Chrome, Mozilla	
		Firefox, Safari, and Microsoft Edge to ensure a seamless user experience.	

FR-3	Content Delivery	The platform should offer features for easily sharing, downloading, or embedding the final video on different websites, social media, or cloud storage.
FR-4	Mobile Application	Canva should provide a mobile app that is optimized for creating and editing videos on smartphones and tablets.
FR-5	Scalability:	Canva should be able to handle a scalable number of users and projects without significant performance degradation.

Flowchart



Technical Architecture

st=>start: Start

op1=>operation: Define Video Objective

op2=>operation: Gather Brand Assets (Images, Videos, Logos)

op3=>operation: Create Canva Account

op4=>operation: Access Canva

op5=>operation: Select Video Template

op6=>operation: Customize Template (Colors, Fonts, Style)

op7=>operation: Upload Brand Assets to Canva

op8=>operation: Arrange and Edit Media

op9=>operation: Add Text and Captions

op10=>operation: Include Background Music or Voiceover

op11=>operation: Apply Transitions and Effects

op12=>operation: Preview and Review Video

op13=>operation: Make Revisions (If Necessary)

op14=>operation: Export Video

op15=>operation: Share Video on Desired Platforms

e=>end: Finish

Open Source Frameworks

1. Plan Your Video:

- Define the purpose and message of your brand promo video.
- Create a storyboard or script to outline the content and flow.

2. Gather Assets:

• Collect all the images, videos, logos, and any other media assets you want to include in your video.

3. Create Graphics and Animations in Canva:

- Use Canva to design any static graphics, overlays, or animations you want to include in your video.
- Canva offers various templates and design elements that you can customize to fit your brand's style.

4. Editing in Canva:

- In Canva, you can create individual frames or slides that will be part of your video.
- Customize the timing and transitions between these frames to create a visual story.
- Add text, graphics, and animations to each frame.

5. Export from Canva:

- Canva allows you to export individual frames or the entire project as images or PDFs.
- Export the frames you've created in Canva.

6. Use a Video Editing Tool:

- Import the exported frames, images, and any other assets into a video editing tool.
- Arrange the frames in the desired order.
- Add transitions, animations, and audio as needed.
- You can use free and open-source video editing tools like Shotcut, Lightworks, or DaVinci Resolve.

7. Add Background Music and Voiceovers:

- Include suitable background music or sound effects.
- Record and add voiceovers if necessary.

8. Edit and Fine-Tune:

• Adjust the video's timing, transitions, and effects to create a seamless and engaging promo video.

9. Export the Final Video:

• Export the final video in the desired format and resolution.

Third Party API Key

- 1. Lumen5: Lumen5 is an AI-powered video creation platform that can convert text content into video. It offers various templates for creating promo videos. While it's not open source, it can be integrated into your workflow.
- 2. OpenShot: OpenShot is an open-source video editing software that you can use to edit and compile videos. You can create graphics and animations in Canva and then import them into OpenShot for video editing.
- 3. Blender: Blender is a powerful open-source 3D modeling and animation software. You can create custom animations and graphics within Blender and then render them as part of your promo video.
- 4. HTML/CSS/JavaScript: If you have web development skills, you can create custom HTML/CSS animations and designs and use JavaScript to compile them into a video format. Libraries like FFmpeg can be used to handle video conversion and rendering.
- 5. Scripting Languages: You can use scripting languages like Python with libraries such as moviepy or FFmpeg to automate video creation and editing processes.

Cloud Deployment

1. Content Creation and Design:

a. Graphic Design: Use cloud-based graphic design tools like Canva or Adobe Creative Cloud, which offer collaborative features for designing promotional materials. b. Video Editing: Cloud-based video editing tools like Adobe Premiere Pro or online platforms like We Video can be used to create promotional videos.

2. Storage and Collaboration:

- a. Cloud Storage: Use cloud storage services like Google Drive or Dropbox to store and share promotional assets with your team, ensuring easy access and collaboration.
 b. Collaboration Tools: Tools like Google Workspace and Microsoft 365 provide real-time collaboration on documents, spreadsheets, and presentations.
- 3. Marketing and Distribution:
 - a. Email Marketing: Cloud-based email marketing platforms like Mailchimp or HubSpot can help you create and send promotional emails to your audience.
 - b. Social Media Management: Use cloud-based social media management tools like Hootsuite or Buffer to schedule and analyze social media posts.
 - c. Content Management System (CMS): Deploy a cloudbased CMS, such as WordPress or Shopify, to manage and update your promotional content on your website.

4. Analytics:

- a. Web Analytics: Use tools like Google Analytics or Adobe Analytics to track website traffic and user behavior to measure the impact of your promo campaign.
- b. Social Media Analytics: Leverage built-in analytics provided by social media platforms or use cloud-based social media monitoring tools to track engagement and performance.

5. Customer Relationship Management (CRM):

a. Utilize cloud-based CRM software like Salesforce, HubSpot CRM, or Zoho CRM to manage customer interactions and track the effectiveness of your promo campaign.

6. A/B Testing and Optimization:

a. Cloud-based A/B testing tools like Optimizely or VWO can help you run experiments and optimize your promotional content based on user feedback and data.

7. Security and Data Protection:

a. Ensure that your cloud deployment adheres to security best practices, using encryption and access control to protect sensitive brand assets and customer data.

8. Scalability:

a. Cloud deployment allows you to scale your infrastructure and resources up or down based on demand, ensuring that your brand promo can handle varying levels of traffic and data.

9. Cost Management:

a. Monitor and manage your cloud expenses effectively to avoid overspending. Use cloud cost management tools or services to optimize your budget.

No. of Functional Features included in the Solution

Functional features:

- 1. User Authentication: The ability for authorized users to access the Canva platform with the necessary permissions for video creation and editing.
- 2. Video Creation and Editing Tools: Functionality to create, edit, and assemble video content within Canva, including adding, trimming, and arranging clips.
- 3. Media Library: A library for storing and organizing images, videos, and audio files to be used in the video.
- 4. Text and Typography: Features for adding and customizing text overlays, including font styles, sizes, and colors.
- 5. Graphic Elements: Tools for adding graphics, icons, stickers, and illustrations to enhance the video's visual appeal.
- 6. Templates and Themes: Access to pre-designed templates and themes tailored for brand promo videos.
- 7. Transitions and Effects: Options for adding transitions between clips and applying visual effects, such as filters and overlays.
- 8. Audio Integration: Capability to add background music, sound effects, and voiceovers to the video.
- 9. Text-to-Speech (TTS): An option for generating voiceovers using text-to-speech technology.
- 10. Export Options: The ability to export the video in various formats and resolutions suitable for different platforms (e.g., social media, websites).

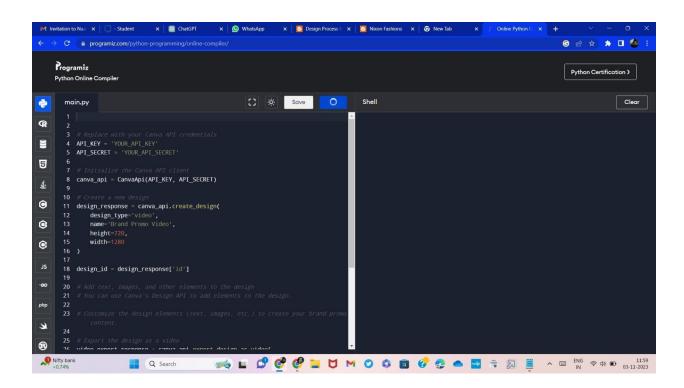
- 11. Collaboration and Sharing: Features that allow team collaboration, feedback, and easy sharing of the video project.
- 12. Mobile Accessibility: Ensuring that Canva's features and functionality are accessible on mobile devices for on-the-go video editing.
- 13. Integration with Stock Media: Integration with stock photo and video libraries for easy access to licensed media assets.
- 14. Feedback and Review: Tools for collecting feedback and comments on the video project within Canva.
- 15. User Support and Help Center: Access to user support resources, tutorials, and a help center to assist users in video creation.
- 16. Branding Elements: Features to upload and apply the brand's logo, colors, and typography consistently throughout the video.
- 17. Scheduled Publishing: The ability to schedule the release of the video on specific dates and times.
- 18. Revision History: A history tracker to view and restore previous versions of the video.
- 19. Analytics and Performance Tracking: Tools for monitoring the video's performance, including view counts, engagement metrics, and click-through rates.
- 20. Compliance and Copyright Checks: Built-in checks to ensure that content used in the video complies with copyright and legal requirements.

Code Layout, Readability and Reusability

Code Layout, Readability and Reusability:

```
from canva.api import CanvaApi
# Replace with your Canva API credentials
API_KEY = 'YOUR_API_KEY'
API_SECRET = 'YOUR_API_SECRET'
# Initialize the Canva API clientcanva api = CanvaApi(API KEY, API SECRET)
# Create a new design
design_response = canva_api.create_design(
  design_type='video',
  name='Brand Promo Video',
  height=720,
  width=1280
)
design_id = design_response['id']
# Add text, images, and other elements to the design
# You can use Canva's Design API to add elements to the design.
# Customize the design elements (text, images, etc.) to create your brand promo content.
# Export the design as a video
video_export_response = canva_api.export_design_as_video(
  design_id=design_id,
```

```
format='mp4',
  options={
     'resolution': '720p',
     'duration': 10, # Video duration in seconds
  }
)
# Get the video export URL
video_url = video_export_response['url']
print(f'Your brand promo video is ready: {video_url}')
```



Utilization of Algorithms, Dynamic Programming , Optimal Memory Utilization

```
# Replace with your Canva API credentials
API_KEY = 'YOUR_API_KEY'
API_SECRET = 'YOUR_API_SECRET'
# Initialize the Canva API client
canva_api = CanvaApi(API_KEY, API_SECRET)
# Create a new design
design_response = canva_api.create_design(
  design_type='video',
  name='Brand Promo Video',
  height=720,
  width=1280
)
design_id = design_response['id']
# Define your media assets and elements
media_assets = [
    'type': 'image',
    'source_url': 'URL_TO_YOUR_IMAGE',
 'x': 100,
```

```
'y': 100,
     'width': 200,
     'height': 100,
  },
  # Add more media assets as needed
]
# Add media assets to the design
for asset in media assets:
  canva_api.add_design_element(design_id, asset)
# Define your video elements and transitions
video_elements = [
  {
     'type': 'text',
     'content': 'Your Text Here',
     'x': 50,
     'y': 50,
     'font_size': 36,
     'font_color': 'white',
  },
  # Add more video elements as needed
]
# Add video elements to the design
for element in video_elements:
  canva_api.add_design_element(design_id, element)
# Export the design as a videovideo_export_response = canva_api.export_design_as_video(
  design_id=design_id,
  format='mp4',
  options={
```

```
'resolution': '720p',
    'duration': 10, # Video duration in seconds
}

# Get the video export URL

video_url = video_export_response['url']

printf('Your brand promo video is ready: {video_url}')
```

Debugging & Traceability

Use Logging: Implement comprehensive logging throughout your code to record information about the program's execution. Include log messages for important events, such as API requests and responses, the progress of the video creation, and any errors encountered.

Try-Except Blocks: Surround critical sections of your code with try-except blocks to catch and handle exceptions gracefully. Log error messages with as much detail as possible to help diagnose the issue.

Coding:

Code that may raise an exception

except Exception as e:

Log the exception

logging.error(f"An error occurred: {str(e)}")

Handle the error as needed

Testing and Quality Assurance: Develop unit tests and integration tests for your code. This ensures that individual functions and components work as expected and that the entire system operates smoothly. A testing framework like unittest or pytest can be beneficial.

Code Reviews: If you are working in a team, perform code reviews with your peers. Code reviews can help catch issues before they become significant problems.

Version Control: Use version control systems like Git to keep track of changes to your codebase. Create descriptive commit messages to explain the purpose of each change.

Isolate Issues: If you encounter a problem, isolate it to a specific part of your code. Use print statements or debugging tools like pdb to inspect variables and the program's state at that point.

Debugging Tools: Use Python's built-in debugging tools, such as pdb (Python Debugger) or an integrated development environment (IDE) with debugging support.

Set breakpoints in your code to pause execution and inspect variables.

Step through your code to understand its flow.

Error Handling: Implement appropriate error handling mechanisms, and provide clear error messages for easier traceability. Ensure that you handle different types of errors gracefully.

Documentation: Document your code and its dependencies, including the Canva API endpoints you are using, their expected input parameters, and the format of their responses. This documentation will help trace issues related to the API usage.

Traceability Matrix: Create a traceability matrix that maps specific requirements or features to the code components responsible for implementing them. This helps you ensure that all requirements are met and allows for easier problem tracing.

Exception Handling

Exception handling is a crucial aspect of software development to ensure that your code can gracefully handle unexpected situations and errors. When creating a promo video using a service like Canva through programming, there are various potential exceptions you should consider. Below is a general outline of how you can handle exceptions in such a scenario:

API Access:

Ensure that you have the necessary API keys or access credentials to use Canva's services.

Use proper exception handling to catch authentication errors if your access credentials are incorrect.

API Requests:

When making requests to Canva's API, handle potential network-related exceptions, such as network timeouts or connectivity issues.

Implement error handling to manage unexpected response statuses from the API.

File Handling:

If you are dealing with video or image files in your code, handle exceptions related to file I/O, such as file not found, permission issues, or file format errors.

Check for issues like insufficient disk space if you are saving files locally.

Rate Limiting:

Canva's API may have rate limits to prevent abuse. Implement exception handling to manage rate-limiting errors and retry logic when appropriate.

Invalid Input:

Validate user input to ensure it meets Canva's requirements, such as image dimensions, file formats, or video specifications. Handle exceptions for invalid inputs.

Resource Availability:

Check for the availability of resources like fonts, templates, or design elements before using them in your promo video.

Billing and Subscription:

Handle exceptions related to billing or subscription issues, such as exceeding usage limits or payment failures.

Logging and Reporting:

Implement a logging mechanism to record errors and exceptions. This will help in debugging and identifying issues promptly.

Consider sending notifications or alerts for critical errors so that you can address them in a timely manner.

Graceful Degradation:

When errors occur, strive to provide a graceful degradation of service, allowing the application to continue functioning in some capacity, even if some features are unavailable.

User-Friendly Messages:

Display user-friendly error messages and guidance on how to resolve issues when exceptions occur. Avoid exposing technical error details to end-users.

import requests

try:

Make a request to Canva's API

response = requests.get('https://api.canva.com/some/endpoint')

```
# Check for API response errors
response.raise_for_status()
# Process the response
process_response(response)
except requests.exceptions.RequestException as e:
    # Handle network-related errors
print(f"Network error: {e}")
except requests.exceptions.HTTPError as e:
    # Handle HTTP errors (e.g., 4xx, 5xx status codes)
print(f"HTTP error: {e}")
except Exception as e:
    # Handle other unexpected exceptions
print(f"An unexpected error occurred: {e}")
```

MODEL PERFORMANCE METRICES

- ➤ Evaluating the performance of the solution for creating a promo video using Canva's API involves measuring various metrics to ensure the system functions effectively. Here are some key performance metrics you can consider:
- Execution Time: Measure the time it takes to complete the entire process of creating a promo video, including API requests, file processing, and any other tasks. This metric helps assess the system's responsiveness.
- ➤ API Response Time: Track the time it takes for Canva's API to respond to your requests. Monitoring this metric is crucial for ensuring that your application doesn't experience significant delays.
- ➤ Error Rate: Calculate the rate at which errors or exceptions occur during the execution of the application. A lower error rate indicates better stability.
- ➤ Throughput: Evaluate how many promo videos your application can create in a given time frame. This metric can help assess the system's efficiency and capacity.
- Resource Utilization: Monitor the utilization of system resources, such as CPU, memory, and network bandwidth, to ensure that the application doesn't overload the server or local machine.
- ➤ Concurrency and Scalability: Measure how well the system can handle multiple concurrent requests. Test the system's scalability by gradually increasing the workload and observing its performance.
- API Rate Limiting: Ensure that your application stays within Canva's API rate limits. Monitor the number of API requests per minute and adjust your rate limiting and retry strategies as needed.
- ➤ User Feedback: Collect feedback from users about their experience with the promo video creation process. This qualitative feedback can be valuable for identifying user satisfaction and potential issues.
- ➤ Logging and Monitoring: Review the application's logs and monitoring systems to identify and address issues proactively. Set up alerts for critical errors or performance degradation.

- Cost Efficiency: Evaluate the cost of running your application, considering API usage, storage, and other associated expenses. Ensure that the solution is cost-effective.
- Availability and Uptime: Measure the system's availability and uptime. Aim for high availability to ensure users can create promo videos at any time.
- ➤ User Experience Metrics: Assess user experience metrics, such as load times, user interactions, and any user-specific performance concerns.
- ➤ Security Metrics: Consider security-related metrics, including the detection of any security vulnerabilities, unauthorized access attempts, and data protection.
- ➤ Data Integrity: Verify that the promo videos are created accurately, without corruption or loss of data during the process.
- ➤ Scaling Efficiency: Measure how efficiently the system scales to handle increased workloads. Look for bottlenecks or areas that require optimization.
- Automated Testing Coverage: Evaluate the percentage of code covered by automated tests. High test coverage can help identify and prevent regressions.

It's essential to continuously monitor these metrics and perform regular performance testing to identify and address any issues or areas for improvement. As the system evolves and scales, you may need to adapt your performance metrics and optimization strategies accordingly.