Title: QT PY 2 - App Launch Flowchart

1. Start the flowchart with a Start symbol.

2. App Launch (GUI\_QT\_2.py)

- Represents the user opening the QT PY 2 application.

- Connect this to the next step with an arrow.

3. User Inputs a Prompt or Selects Random Prompt (Prompt.py)

- Represents the user entering a custom prompt or selecting a predefined prompt.

- Show a decision diamond where the user chooses between entering their own prompt or using a random one.

- If the user chooses random, connect this to a process box labeled "Fetch Random Prompt from Prompt.py".

- If the user enters manually, connect it directly to the next step.

4. Prompt Enhancement (EnhancePrompt.py) - Check Model Availability

- This is a decision step checking if the local model is available.

- If local model is found, connect to a process box labeled "Load Local Model".

- If local model is not found, connect to a process box labeled "Login to Hugging Face and Fetch Model".

- Both paths should merge into a single step labeled "Expand Prompt using Loaded Model".

- Then, connect this to the next step.

5. Image Generation Request (Connector.py)

- Represents the system preparing to generate an image.

- Connect this to a decision box labeled "Check Model Availability".

6. Image Generation Model Handling (StableDiffusion35.py) - Check Model Availability

- This is another decision step checking if the local Stable Diffusion model is available.

- If local model is found, connect to a process box labeled "Load Stable Diffusion Locally".

- If local model is not found, connect to a process box labeled "Login to Hugging Face and Fetch Model".

- Both paths should merge into a process box labeled "Generate Image Based on Prompt".

- Then, connect this to the next step.

7. Image Saving and Display (Images/ folder and GUI\_QT\_2.py)

- Represents the generated image being saved in the Images folder.

- Show a process box labeled "Save Image with Unique Filename".

- Connect this to a box labeled "Display Generated Image in GUI".

8. Success Message to User

- Represents a confirmation popup notifying the user that the image has been successfully generated.

- Show a process box labeled "Show Popup: Image Successfully Generated".

- Connect this to an End symbol.