Comic/Art Book Generator Assistant

Abhijeet Gusain, Atharva Belamkar, Chaitanya Gunda, Lokesh Patibandla

STEVENS INSTITUTE *of* TECHNOLOGY
THE INNOVATION UNIVERSITY®
Business Intelligence & Analytics

Introduction/Business Impact

Introduction: Introduces the Comic/Art Book Generator Assistant, a state-of-the-art tool leveraging Large Language Models for comic and art book creation.

Enhancement: Streamlines content generation and ideation, enhancing efficiency in the creative process.

Consistency: Addresses the challenge of maintaining thematic and stylistic consistency within artistic projects.

Solution: Simplifies complex, time-consuming tasks involved in art and comic book production.

Goal: Aims to simplify the creative workflow, serving as an intelligent assistant for artists and creators.

Experiment/Key components

Scope:

User input details of scenario and character which he wants to create. eg Description of character like tall, blond and brave warrior.

Architecture and Tools:

Python for backend development

Utilizes OpenAI's GPT-4.0 for sophisticated language interaction with user to capture details of scenario for comic.

Using Stable Diffusion model to create AI generated images

Prompting:

To leverage full potential of both GPT.4.0 and Stable diffusion, we need prompt engineer on our user scenario to break it into panels and get best image for comic
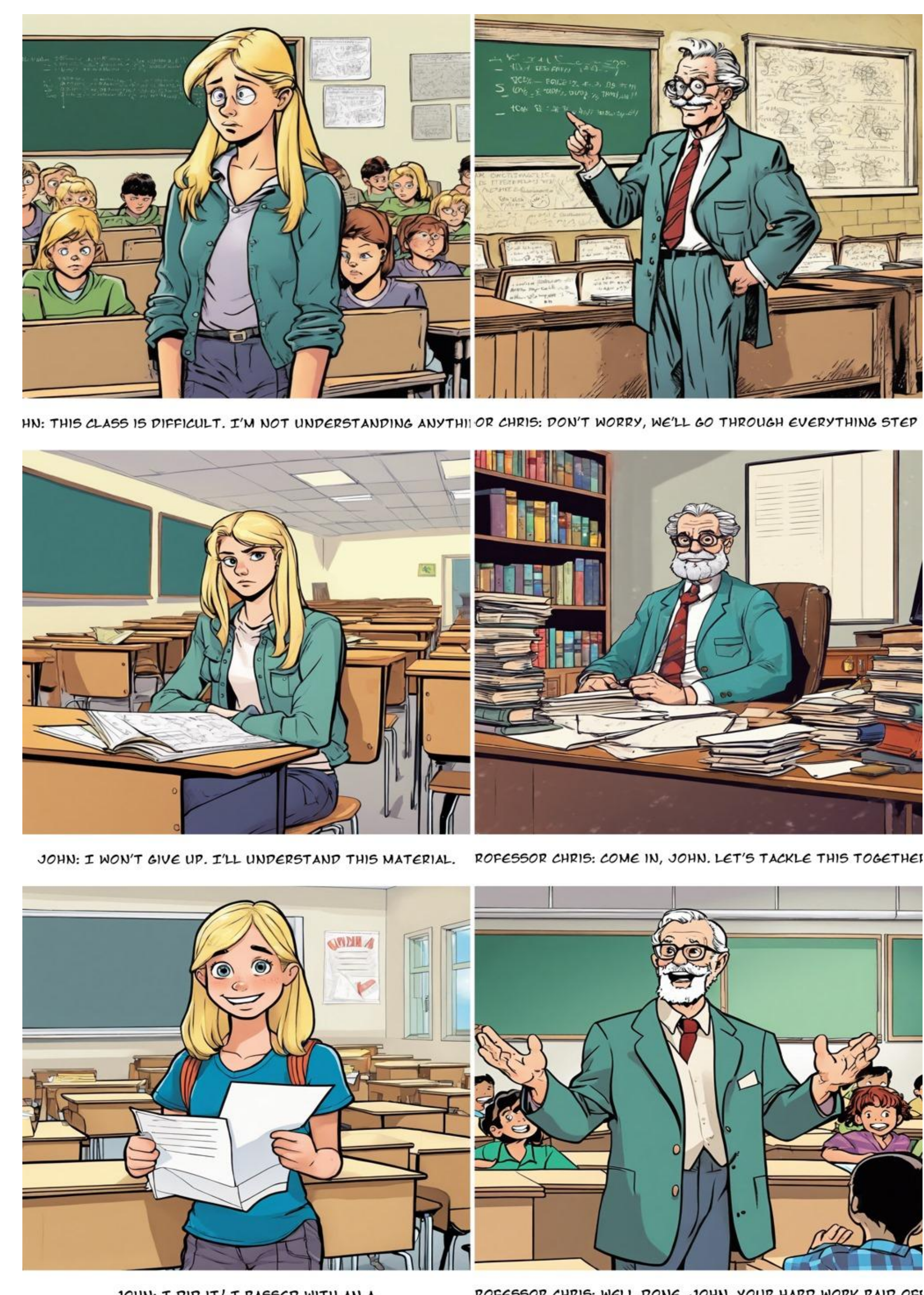
Architecture
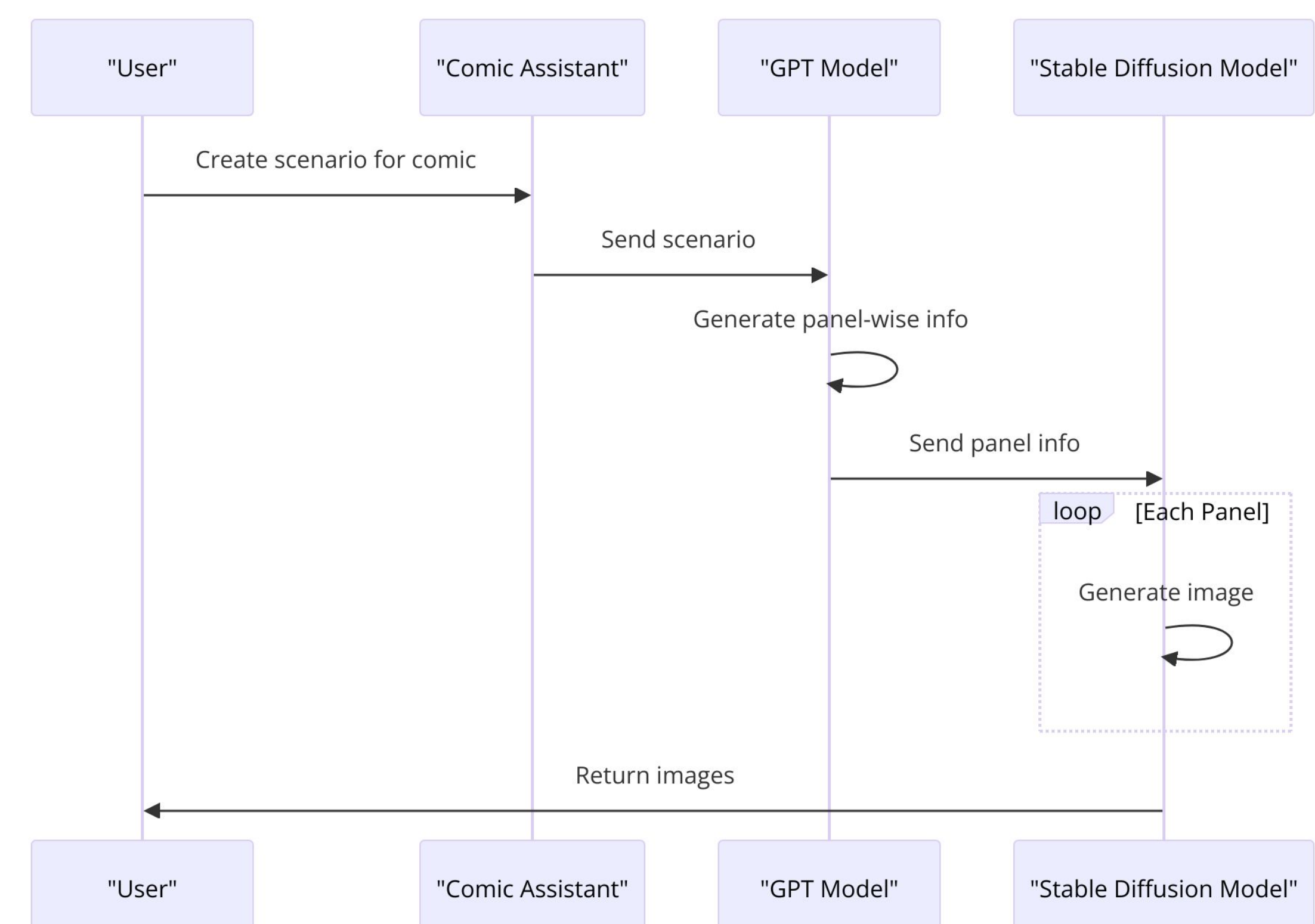
Results

The comic generator collects input from the user and creates a comic strip using the Stability Diffusion model.

Scenario: John is a struggling kid in Professor Chris' class and is determined to learn, so she approaches Professor Chris to help her out. Finally, her hardwork pays off and she gets an A.

Conclusion

The proposed cognitive application is poised to have a substantial impact on the comic and art book industry by harnessing the capabilities of large language models to enhance and expedite the content creation process.