NightNight

a bedtime story app
Mission

To make every child an author
Chapter 2: Product Demo
Chapter 3: Making a Story
Next Steps Selection

- The fox decides to jump over the fence
- Two cows come and try to play soccer with the fox
- The fox decides to sleep until the gatekeeper comes back
Next Steps Selection

User Info

Story
- Scenery
- Style
- Page 1
- Page 2
- Page 3
...

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User Info

Get Three Next Steps

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The fox decides to jump over the fence

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...
A fox in denim overalls and a bright red hat leaping over a 10-foot tall brown fence in a thick brushed paint style.

The fox decides to jump over the fence.
Image Generation

- User Info
- Image Guide
- Story
  - Scenery
  - Style
  - Page 1
  - Page 2
  - Page 3
  ...

Orchestrator

The fox decides to jump over the fence
A fox in denim overalls and a bright red hat leaping over a 10-foot tall brown fence in a thick brushed paint style.
A fox in denim overalls and a bright red hat leaping over a 10-foot tall brown fence in a thick brushed paint style.
The fox decides to jump over the fence

Style: oil painting with lots of thick brush strokes and drippy paint
Chapter 4:
The Journey
Challenges

Image Consistency
Story Quality/Variety
Integration
Our storytellers
It is fun to have fun, but you have to know how!

- The Cat in the Hat
NightNight
Page:
- Story Content
- Image Prompt
- Image

Story:
- Scenery
- Style
- User Notes
- Image Guide
Next Steps

10,000 Flowers
Chat Interface
Drawings
Next Tech Steps

LLM/Image Model Reselection
Agentic Prompt Optimization
Minimize Latency
LLM as UI

Prompt Pipeline
Input/Output validation
Mockups & Model Tradeoffs
APPENDIX
The fox decides to jump over the fence

Style: old black and white photograph
The fox decides to jump over the fence.

Style: an 8-bit Nintendo adventure game.
The fox decides to jump over the fence

Style: 1960s cartoon
The fox decides to jump over the fence

Style: yarn based art
Next Step Idea Generation

User Info

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Next Step Idea Generation

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Image Generation

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- Image Guide
- Image Prompt TEMPLATE
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  - Style
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  ...
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Duplicate slide - remove
Frontend

Streamlit
Streamlit

● What is it?
● Why use it?
● Alternatives?
● Experience?
Backend

AWS, Dynamo
Dynamo

- What do we store?
- Why do we store it?
- How do we store it?
- Privacy
AWS Setup

Jayant, please I know nearly nothing about AWS!
Key Classes

Orchestrator
- LLM
  - Get Next Steps
  - Create Image Prompt
  - Formatter
- Image Generator
  - Generate Image

Story
- Scenery
- Style
- User Notes
- Image Guide

Page
- Story Content
- Image Prompt
- Image
Key Classes

Page, Story, Orchestrator
Stretch Goals

Deeper interactions, a Beautiful UI, Storyline rewrites