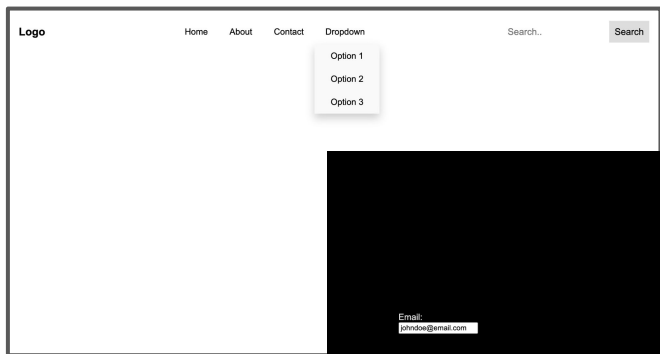


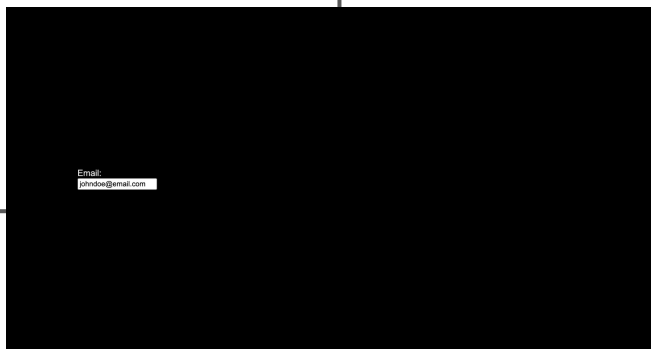
# Oct 15th Research Update: More Data, Fine Tuning Again

## More Training Data

- User interfaces with top Navbars
- User interfaces with various input field types located around the screen



(a navbar at the top of the screen with 3 links labeled ['Home', 'About', 'Contact'] with a dropdown with a search bar with a dark theme)



(Email input field in the center left with a dark theme)

## Fine Tuning Again

- Started from base SDXL model again, though with 400 images (30 images previously)
- Changed batch size from 1  $\rightarrow$  4
  - I ran out of GPU memory if I increased this
- 800 train steps, saved at 400 and 800
- Learning rate still at 5e-6
- Trained for 2 hours
- Average loss didn't seem to stabilize, but I also believe I was overfitting on my input data.

## Issue

- Having trouble using both GPUs for training - script freezes
  - I set accelerate config to use multiple GPUS and add `-multi_gpu` and `-num_processes` flags to train script

# New Training Data Content

## Navigation Bars

- Logo
- Page links
- Dropdowns with a few options
- Search bar

I iterated through different combinations of these elements on the screen

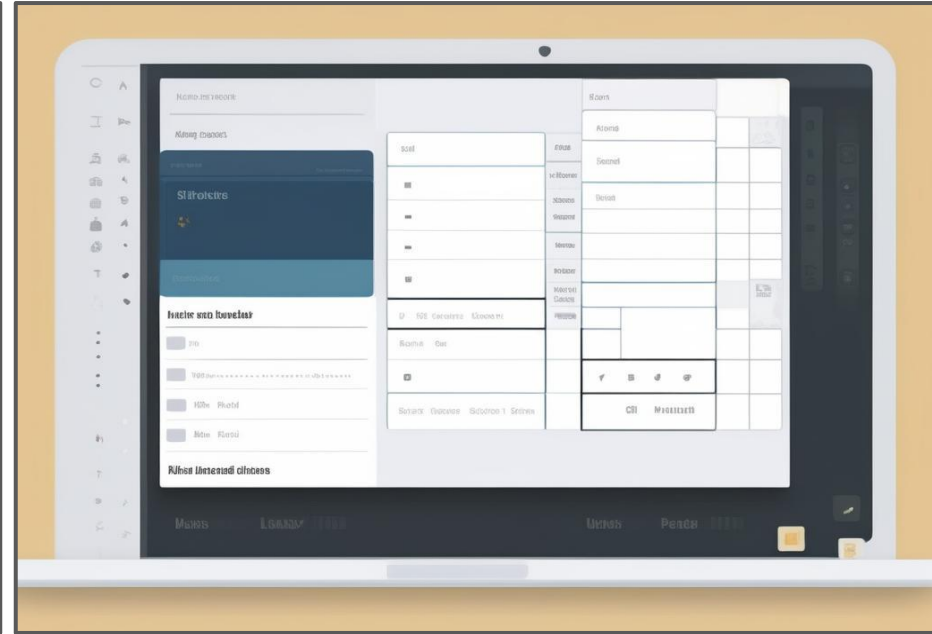
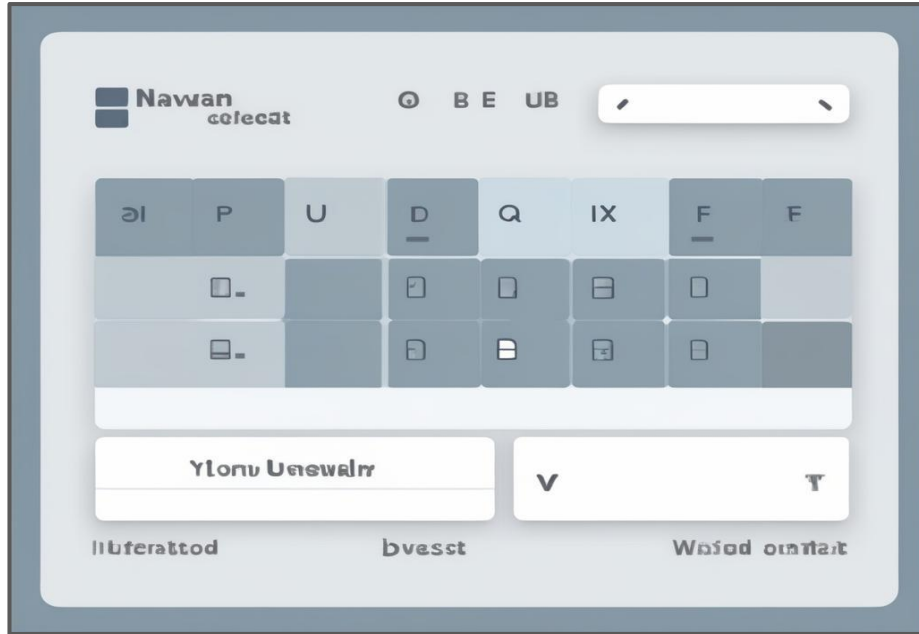
## Input Elements

- Button
- Checkbox
- Date, datetime
- Email
- File upload
- Radio button
- Submit button
- ...

These were placed at different locations around the screen (ex: top-left, center-right, bottom center...)

**Prompt 1:** A user interface with a navbar on the top with a grid with 2 rows and 2 columns below, and two input fields in the top left grid block for "Username" and "Password"

## Base Model



**Prompt 1:** A user interface with a navbar on the top with a grid with 2 rows and 2 columns below, and two input fields in the top left grid block for "Username" and "Password"

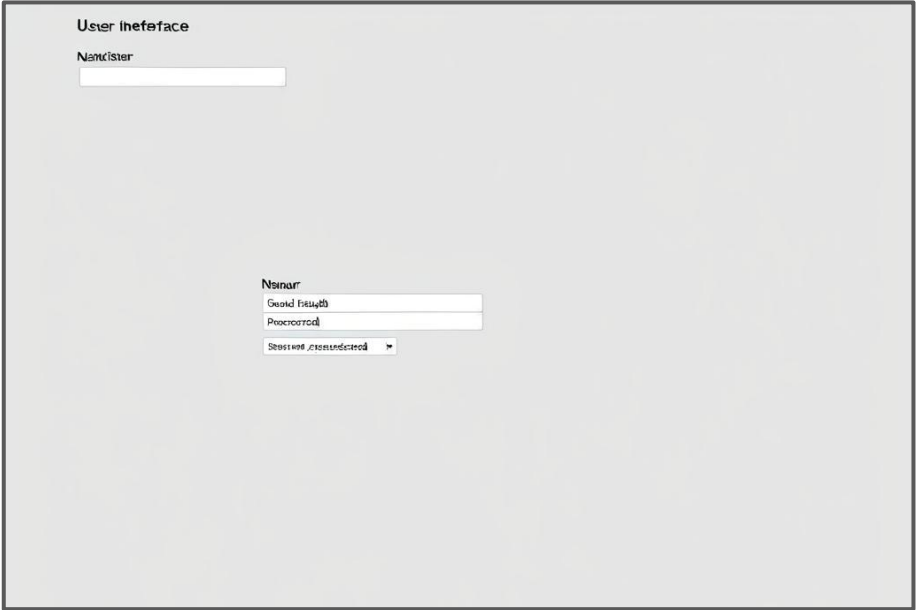
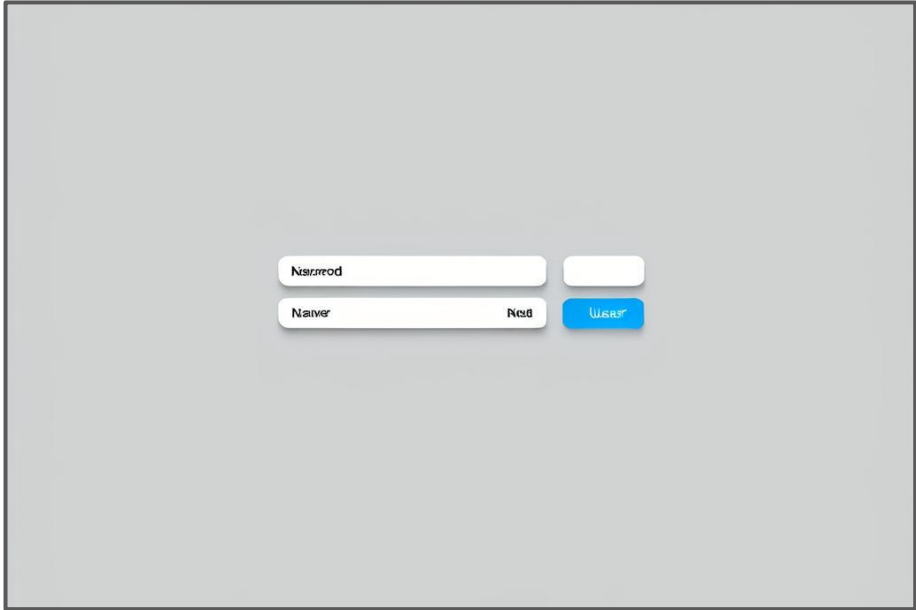
### After 400 Training Steps

The wireframe shows a 'New record' form for a 'Person' entity. The form is titled 'New record' and has a 'Person' label. It is divided into two main sections: 'Person' and 'User information'. The 'Person' section includes fields for 'Email address', 'Name', 'Address', and 'Phone'. The 'User information' section includes fields for 'Username' and 'Password'. A 'Save' button is located at the bottom right.

[illegible]

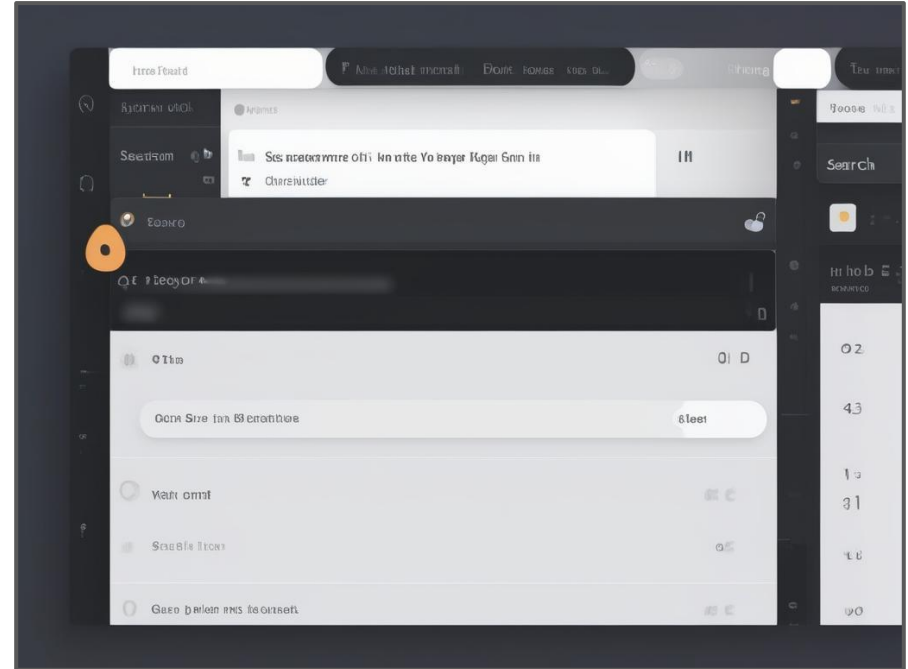
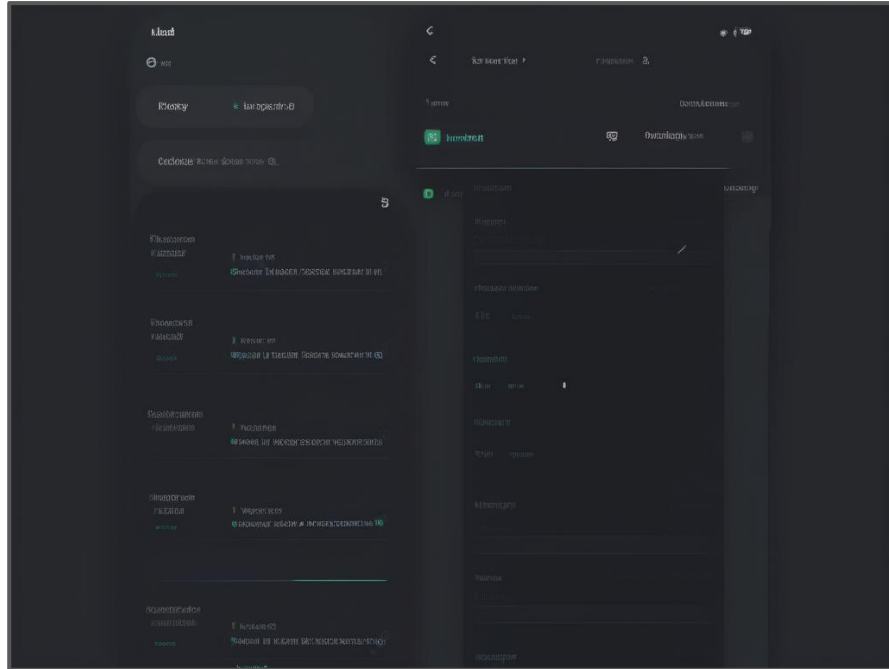
**Prompt 1:** A user interface with a navbar on the top with a grid with 2 rows and 2 columns below, and two input fields in the top left grid block for "Username" and "Password"

**After 800 Training Steps**



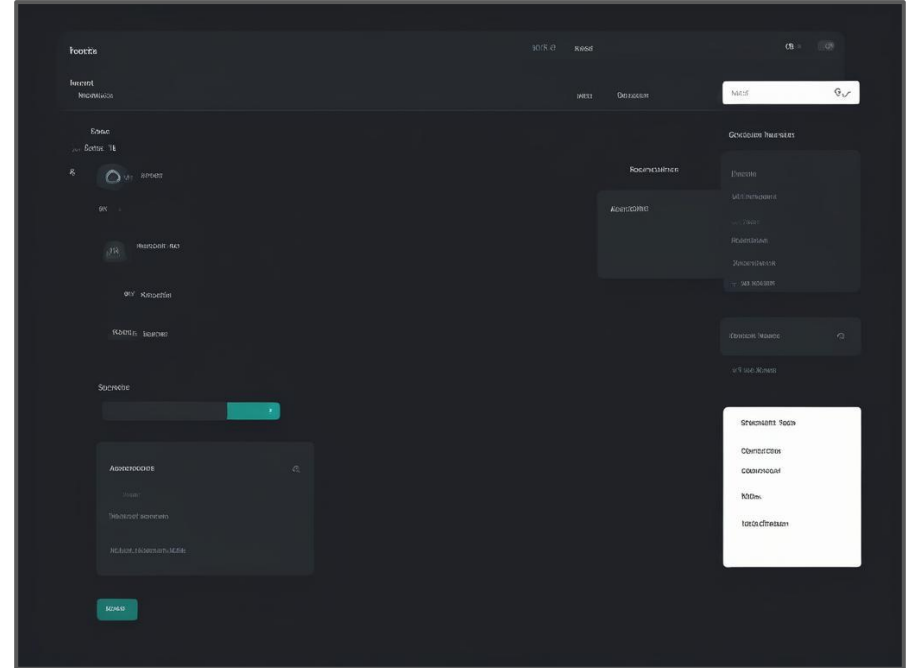
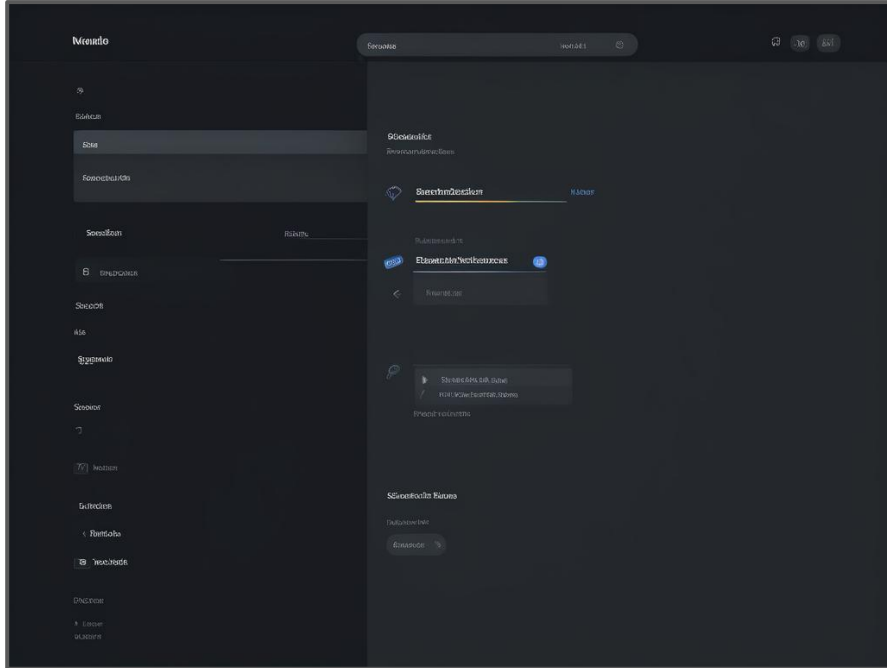
**Prompt 2:** A user interface with a **navbar** at the top of the screen. There is a **Logo** on the left and a **searchbar** on the right. near the searchbar there is a **dropdown** with 3 options. **Dark theme**

## Base Model



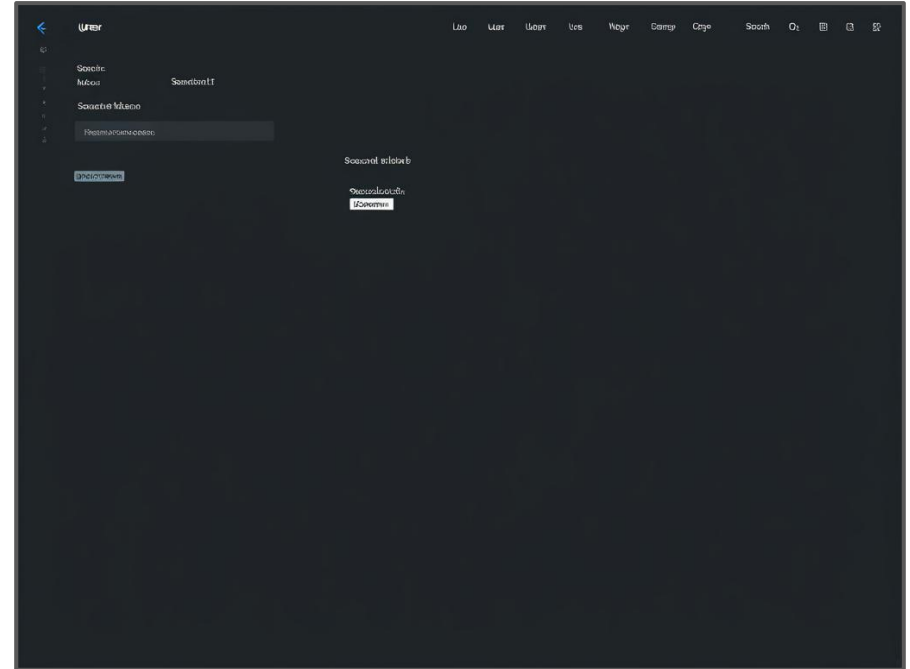
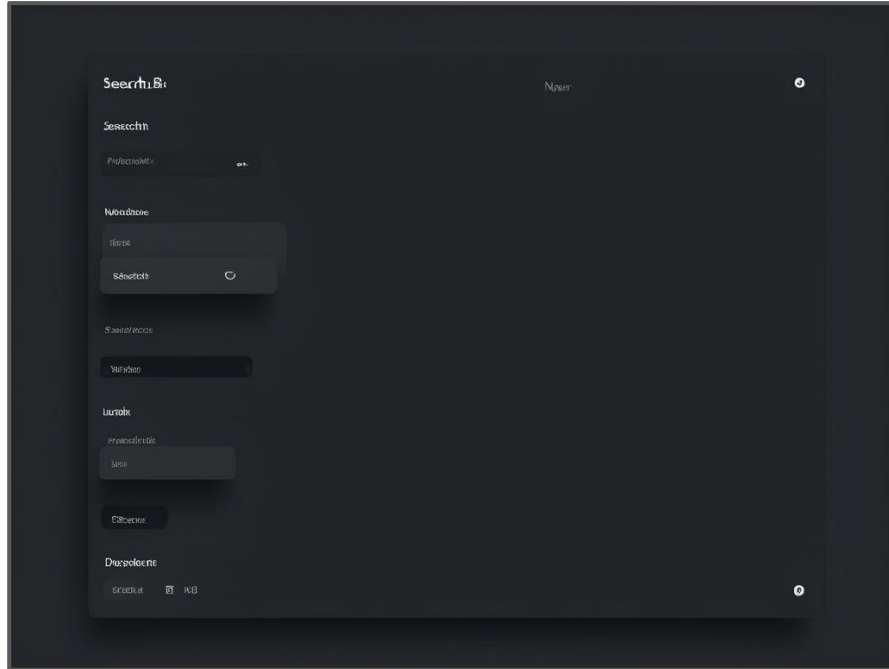
**Prompt 2:** A user interface with a navbar at the top of the screen. There is a Logo on the left and a searchbar on the right. near the searchbar there is a dropdown with 3 options. Dark theme

### After 400 Training Steps



**Prompt 2:** A user interface with a navbar at the top of the screen. There is a **Logo on the left** and a **searchbar on the right**. near the searchbar there is a **dropdown with 3 options**. **Dark theme**

## After 800 Training Steps





**Prompt 3:** a user interface with 3 columns. The left column has 3 checkboxes for selecting "Option 1", "Option 2", and/or "Option 3". The center column has a datetime input field to select your "Birthday" and the right column has an input field to upload a file. Light theme

## Base Model

The screenshot shows the 'Ibbay 1 Options' window. The left sidebar has several sections: 'Distribution' with a 'Fabbel' sub-section containing icons; 'eSde' with a dropdown menu; 'Tjontion' with a text input field; 'E.0 Lertt' with a text input field; 'bte eodn' with a text input field; 'Opodon' with a text input field; 'Zz Ittlee na' with a text input field; and 'Ttettost' with a text input field and a 'Stuopt' button. The main content area displays a list of options, each with a title and a description. The options are: 'Ctne', 'Bjpd', 'Cue', 'ottdiday', 'In Gole Tttime', 'Wray Bletday', 'Ldeay Ttite Bttday', and 'Ttwe: tial'. A 'NC 11' button is located at the bottom of the main content area.

[illegible]



**Prompt 3:** a user interface with 3 columns. The left column has 3 checkboxes for selecting "Option 1", "Option 2", and/or "Option 3". The center column has a datetime input field to select your "Birthday" and the right column has an input field to upload a file. Light theme

### After 800 Training Steps

**Optim Field**

October 11, 2011 1:11

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**Questions**

**Saitzen**

**Tilum**

**Bitten**

**Dickelley**

**Zulu Program**

Destroy

Red Herring

Necropsy

Ego Chart

Search

Lam Food

Mistake

Custom ...

MS600

Goops

Option

Option

Field 1

form: lastname

Option Birthday

Option Birthday

checkbox birthday

🔗

github.com

Option Birthday

Option Birthday

checkbox birthday

🔗

github.com

Content Field

# Observations

With more training, UIs became very simplistic, matching my training data. They did not consistently match the prompt but showed a slight improvement from the base model in generating reasonable navbars, search bars, and general html-looking forms.

Components did not overlap or collide after training, unlike the base model. The model created slightly more accurate text labels for input fields, but was still unreadable.