

## PROJECT

### OVERVIEW

Generative AI (i.e. ChatGPT) is a tool that you can use to help you do many tasks ranging from:

- Customer Service
- Content Generation
- Data Analysis
- Sales
- Programming
- And more!

It's important to be thoughtful when using any new tool, and this project will help you practice using a Generative AI tool in a way that makes sense for you.

### SETUP

If you already have a Generative AI tool in mind, go to their website and have a working account.

### RESOURCES

Risk and Limitations:

- **Disinformation:** The tendency for ChatGPT to produce incorrect information
- **Misinformation:** The ability for ChatGPT to be used to produce information intended to mislead people
- **Bias:** ChatGPT presenting biases based on the training data it has received
- **Data Security:** The security and privacy issues stemming from the data ChatGPT is collecting

Tips for Writing Effective Prompts:

- Define the purpose of the prompt, use concepts like:
- **Format:** How do you want the output structured? Bullet list? Paragraph? An essay?
- **Audience:** Who is this for? Do you want something for children? Beginners? Experts?
- **Tone:** How do you want the output to sound? Funny? Professional?
- Include important **context**
- Provide **examples**

- Use **clear language**: get rid of unnecessary information, jargon, confusing phrases, or mistakes

#### Recommended Tools:

- ChatGPT
- Code editor of your choice

#### Links:

- [ChatGPT website](#)

### Come up with the application ×

Try to think of something that might require multiple steps, rather than something simple like a command

Hint



Some ideas:

- A website
- A small app
- A command line tool

### Consider risks and limitations ×

Think about whether your project is a good fit for Generative AI. Are there any risks to using it?

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Risks might include plagiarism or using private customer data

## Choose a tool



There are several options available for someone looking to create programs with Generative AI. Choose one and create an account if you haven't already.

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Some examples include:

- ChatGPT
- Copilot
- Codey

## Provide context



Is there any information aside from the request that the Generative AI should know in order to complete the prompt? Include this in the prompt.

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Specific topics you want covered, background information such as how you want the application to work

## Consider technology suggestions



Consider providing the context about what you want and asking the AI whether it has suggestions about languages, libraries, or frameworks you should use.

Once you start making the program consider using these suggestions in the prompt.

## Start Small



Consider breaking up your application into small pieces, having the Generative AI create one piece at a time, then composing them together. Start by asking for one initial piece of the application, something you can quickly test by running.

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Some examples might include:

- Create a login form
- Create a route for a GET request
- Create logic to parse command line arguments

## Continue development



Once you have a small piece of the application running, continue building with the Generative AI. Ask for additional features or modifications to the existing code. Continue running and testing the code to see if it's approaching what you want.

Hint



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Some examples might include:

- Add reset password functionality
- Handle PUT and DELETE requests
- Add functionality to handle different command line flags

## Debug



As you create the application, you will likely see some problems or errors. This is a normal part of development with Generative AI, it isn't perfect. Try using the Generative AI in order to resolve the problems.

Hint



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Example prompts might include:

- I was expecting
- The following error message was received

## Finish the project



Actually finishing the project will require a variety of tasks. Some code might need to be written by you, code will need to be explained, reference materials provided, and testing to occur. Getting the project finished will likely require a combination of using Generative AI and your own programming skills. Keep working and get the project in a shareable state!