

INFO 102 Lab 9: Software development with AI

Partner #1: Name: _____ Net ID: _____

Partner #2: Name: _____ Net ID: _____

What are the five stages of software development in the Waterfall Model we learned in class?

1.

2.

3.

4.

5.

In scrum and other agile methods, the **backlog** is a list of things each called: _____

The scrum backlog matches which of the five waterfall stages? _____

When using an AI prompt system like chatgpt.com or gemini.google.com to create code,

Partner 1: What is one reason to give many short single-idea prompts?

Partner 2: What is one reason to give a single prompt describing the whole project?

Use Gemini (or another AI tool both partners agree on) to create a local web page that implements a single-player game. See the class text page “Basic AI-assisted programming” for tips.

We recommend starting with a very simple version, then adding a bit more complexity repeatedly over time.

If your game is simple enough for the AI to complete quickly, try any of the following:

- Try describing the entire game twice in two different AI sessions: one using one big prompt, the other using many small prompts. How do the two compare?
- Try creating the same game in other engines (chatgpt.com, duck.ai; if you have an account you can also try something like replit.com, lovable.dev, colab.research.google.com, cursor.com, [antigravity.google](https://antigravity.google.com), claude.com, though these can be more complicated to learn)
- Make the game prettier: 3D graphics, visual effects, sound effects, etc.
- Ask the AI to do unexpected things, like mixing two unrelated games in one, adding an AI play assist or autopilot mode, and so on.
- Give vague or emotive prompts, like “make it spooky” or “it’s not shiny enough”.
- Ask the AI what you should add next.
- Try again with a more complicated game

Feel free to use this space for anything you wish, or to leave it blank.

When you're done, check out with a TA or CA, show them your game, and hand over this completed worksheet.

Bye!