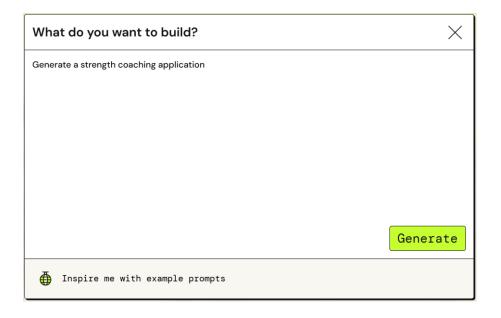
Build fitness application using Amazon PartyRock

Generating a Strength Coach Application

- 1. Navigate to AWS PartyRock.
- 2. Click on 'Generate app' and enter a prompt. Here's an example:



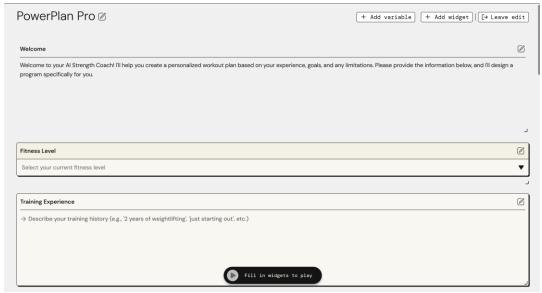
3. Click 'Generate' and watch PartyRock work its magic!



4. PartyRock generated an application that designs a custom workout plan tailored to your experience, goals, and any limitations you provide.

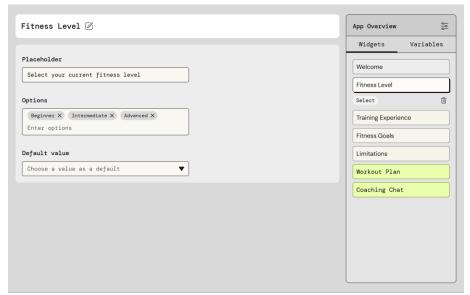
Modifying widgets

1. You can edit widgets by clicking **"Edit"** in the top-right corner of the screen, or by selecting the pencil-and-paper icon on each widget.



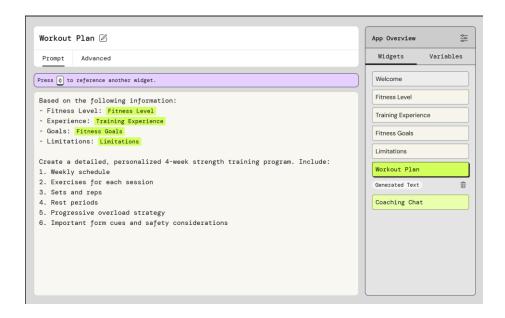
From here, you can adjust attributes such as the **app name**, add variables and widgets, edit the **welcome message**, and change the **size and arrangement** of widgets.

Clicking the pencil-and-paper icon on a widget opens the **App Overview**. From this section, selecting an instruction allows you to further customize attributes such as **placeholder text**, **options for dropdowns**, or applying a **default value**.



Example: Editing the "Fitness Level" field under App Overview.

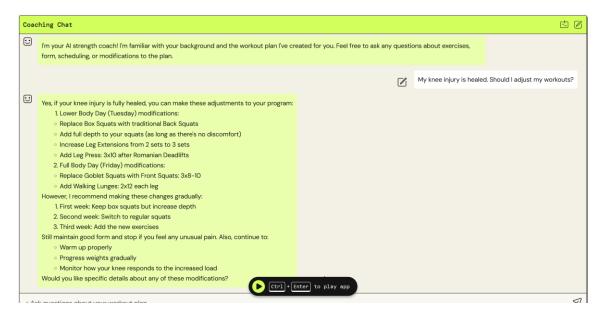
Selecting responses (highlighted in green) lets you refine the prompt to the model.
You can adjust context, provide specific guidance, or define how you want the response formatted.



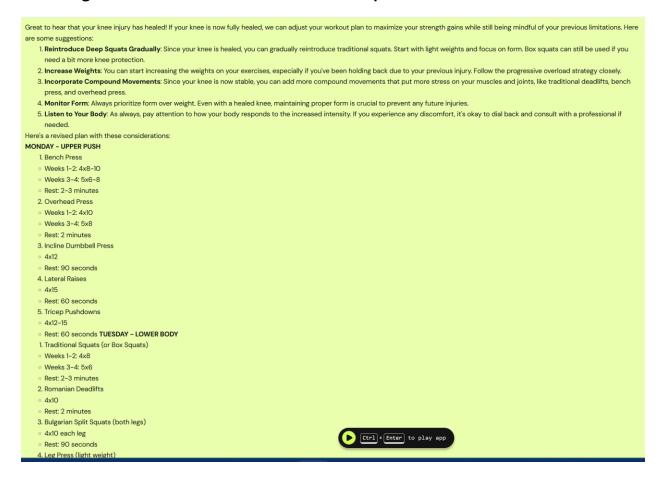
- 3. Under the **Advanced** tab, you can experiment with multiple large language models. You can also fine-tune:
 - **Temperature** controls creativity. Lower values keep responses more focused and predictable, while higher values make them more varied and imaginative.
 - **Top P** controls probability sampling. Lower values restrict the model to the most likely words, while higher values broaden the range of possible outputs.

Example comparisons:

Coaching Chat with Claude 3.5 Sonnet v2 with Temperature and Top P low:



Coaching Chat with Amazon Nova Micro and Temperature set to 1:



- Coaching Chat with Claude 3.5 Sonnet v2 (Temperature and Top P set low): provided minor workout adjustments.
- Coaching Chat with Amazon Nova Micro (Temperature set to 1): suggested revising the entire workout plan and even added encouragement, e.g., "Great to hear that your knee injury healed!"

Adding new widgets

- 1. How about we spice it up a bit now. I love a good AI generated image. So let's add a widget that generates an image.
- 2. Click on 'Add widget' in the top right of edit canvas.



- 3. There are multiple options for different widgets but I want to generate an image. So I selected Generated Image under the AI-powered section.
- 4. This brings you to the 'App Overview' for you new widget where you can change the name and provide the Prompt.

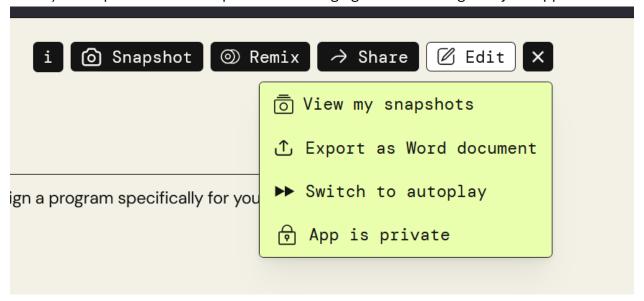




5. My widget generated this buff lion dude and I'm now feeling super pump to try out my new workout plan! You can try adding or changing widgets according to your own imagination. Make it creative and have fun!

Publishing your application

- 1. Once you've edited your widgets, selected your preferred models, and fine-tuned your prompts, it's time to share your app with the world. **PartyRock allows you to publish your app** so others can use it!
- 2. On the main screen, click the **square with four lines** in the top-right corner (next to "Edit"). This opens additional options for managing and interacting with your app.



3. Click 'App is private'. and select 'Public'



4. Now anyone with the link can use and remix your application! Here's my Strength coach application:

https://partyrock.aws/u/Tattootoine/qjHm0Qkpn/PowerPlan-Pro

Conclusion

At the start of this project, I gave PartyRock a simple prompt: "Generate a strength coaching application." It generated a solid app, but I spent some time customizing it to better fit my vision.

However, if my original prompt had been more detailed, for example: "Create a fitness coaching application with the following features:

- Generate a personalized workout plan tailored to fitness level, training experience, goals, and limitations.
- Include a chatbot that provides advice in the voice and perspective of a professional strength coach.
- Generate motivational images based on the user's fitness goals.
- Ensure the app feels supportive, practical, and motivational, similar to interacting with a real coach."*

—then PartyRock would have built the same app with far fewer modifications needed.

This highlights the importance of **prompt engineering**. Prompt engineering is the practice of crafting clear, specific, and intentional instructions for AI systems. By giving the model

more context and direction, you can guide it toward better, more accurate, and more useful results. In short: the better your prompt, the better your outcome.

Thanks for building with me—or just following along if you made it this far. I tried to tie in a lesson at the end, and I hope you not only had some fun but maybe picked up something new along the way.