

SE Deployment Workshop: *Extreme Startup*

17-313: Foundations of Software Engineering

<https://cmu-313.github.io>

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Course Announcements

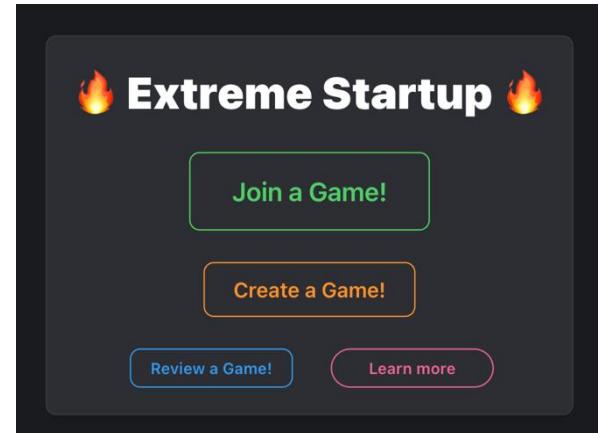
- Final Time:
 - Thursday, April 30, 2026 08:30am - 11:30am
 - Room TBD
- Midterm
 - Thursday, February 26
 - If you need a disability accommodation, please schedule with ODR immediately.
- Project 2C due ~~Thursday, February 26~~ Friday, February 27

Learning Goals

- Get familiar with continuous deployment
- Deal with fast-changing requirements based on user demand, which scales with success rate / user base
- Understand the value of in-house testing before deploying to production
- Differentiate between missing features and wrong behavior in a production system

Extreme Startup Game

- Maintained by Robert Chatley, Matt Wynne, and Mike Sorokin (Imperial College London)
- Goal is to help students take rapid deployment to the extreme
- We will play the game, then discuss as a group



Setup Instructions:

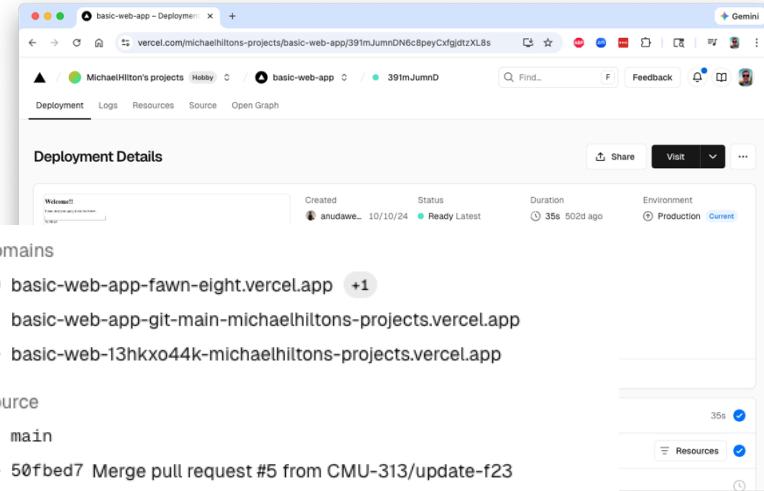
Step 1: have vercell app running

- If you have not done the recitation, you will need to do this first. (See course website)
- Visit your vercel deployment. Find the URL for your deployment

Use This:

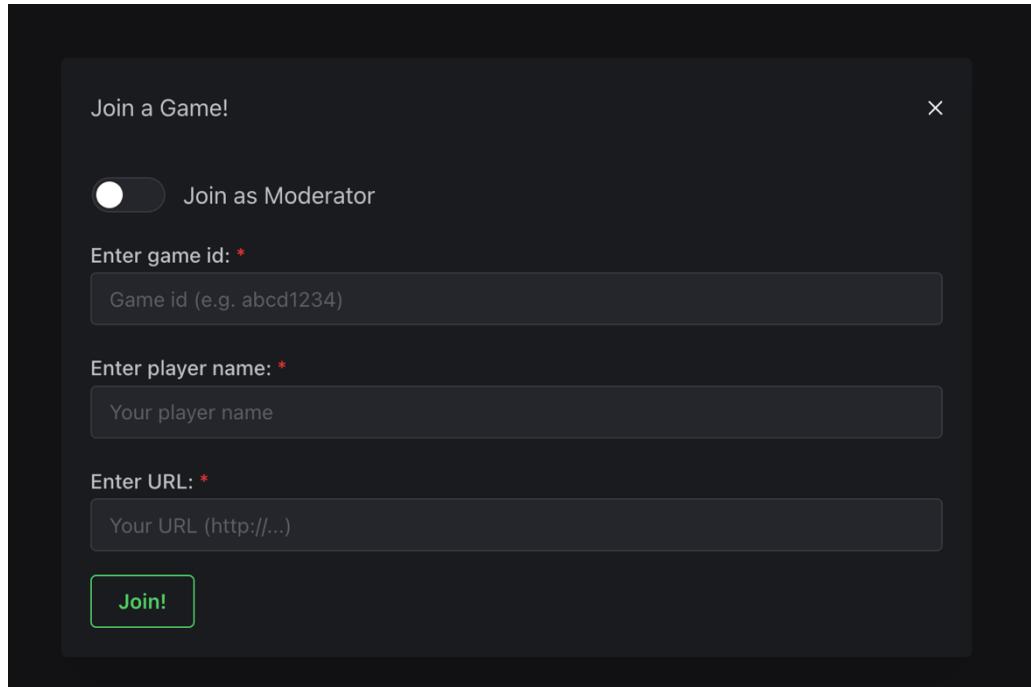
NOT these:

NOT this:



Step 2: Join game

- Game id: from board
- Player Name (AndrewID):
 - Remember what you put in
- URL:
 - **IMPORTANT:** PASTE YOUR URL BUT ADD '/API'
 - E.g.
<http://myurl.com/API>



A screenshot of a web browser window titled "Extreme Startup". The address bar shows "Not Secure 128.2.24.106/7b268e54/players/1948b7c8". The page content is dark-themed and displays the following information:

- Player ID**: 1948b7c8
- Game ID**: **7b268e54** [Copy Game Id](#)
- API**: <https://basic-web-app-fawn-eight.vercel.app/api>
- Score**: **-100**
- Events**

ID	Query	Points	Timestamp	Outcome
3e751752	What is your name?	-10	01:09:31	INCORRECT
813aaeff	What is your name?	-10	01:09:26	INCORRECT

A screenshot of a web browser displaying the Vercel Logs interface for a project named "basic-web-app". The URL in the address bar is `vercel.com/michaelhiltons-projects/basic-web-app/logs`. The interface includes a navigation bar with links for Project, Deployments, Analytics, Speed Insights, Logs (which is the active tab), Observability, Firewall, Storage, and Settings. A blue arrow points to the "Logs" tab. On the left, there is a sidebar with "Filters" and a "Timeline" section set to "Past 30 minutes". The main area shows a table of logs with columns for Time, Status, Host, Request, and Messages. The logs list numerous GET requests to the "/api" endpoint, mostly returning status 200, with one entry at 19:59:28.61 returning status 500. The last log entry is a red-highlighted error message: "Node.js process exited with exit status: 1. The process tried to write to the shared memory area or file descriptor 4". A message at the bottom right of the log table says "No more logs to show within selected timeline".

See logs
here

Takeaways

- Continuous deployment (auto-deploy on push) makes it easy to land changes in production
 - But there is always some delay in the feedback loop after your push
- Not having a feature is better than performing incorrectly
- Requirements can change quickly based on user demand
- User demand scales with success in production
- Local testing can help prevent issues in production, but testing in production might speed things up