

# SE Deployment Workshop: *Extreme Startup*

17-313 Fall 204

Foundations of Software Engineering

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

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# 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)

## You will need:

- URL of deployed basic-web-app:  
    <name>.vercel.app
- Keep it running, open Vercel logs to monitor
- Test API by going to  
    <url-of-your-app>/api?q=shakespeare
- A name for your player (work in teams of 2-3)
- Ready terminal, git, code editor, etc. to make changes and deploy quickly!



# Joining the game: Warmup round

- <https://cmu-313-f24-deployment-extreme-startup.azurewebsites.net/>
  - Will post this on Slack for reference
- Join the game: <game ID> on board
- Enter player name (**remember this name!!**)
- Enter app URL. **Be sure to include “/api” at the end**
  - <name>.vercel.app/api
- **Keep the game window/tab open at all times.** It will show you your score and next steps.
- Look at incoming queries on your player page
- Your app needs to respond to these queries correctly to gain points
- Test, implement, and push a change quickly!

# 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