



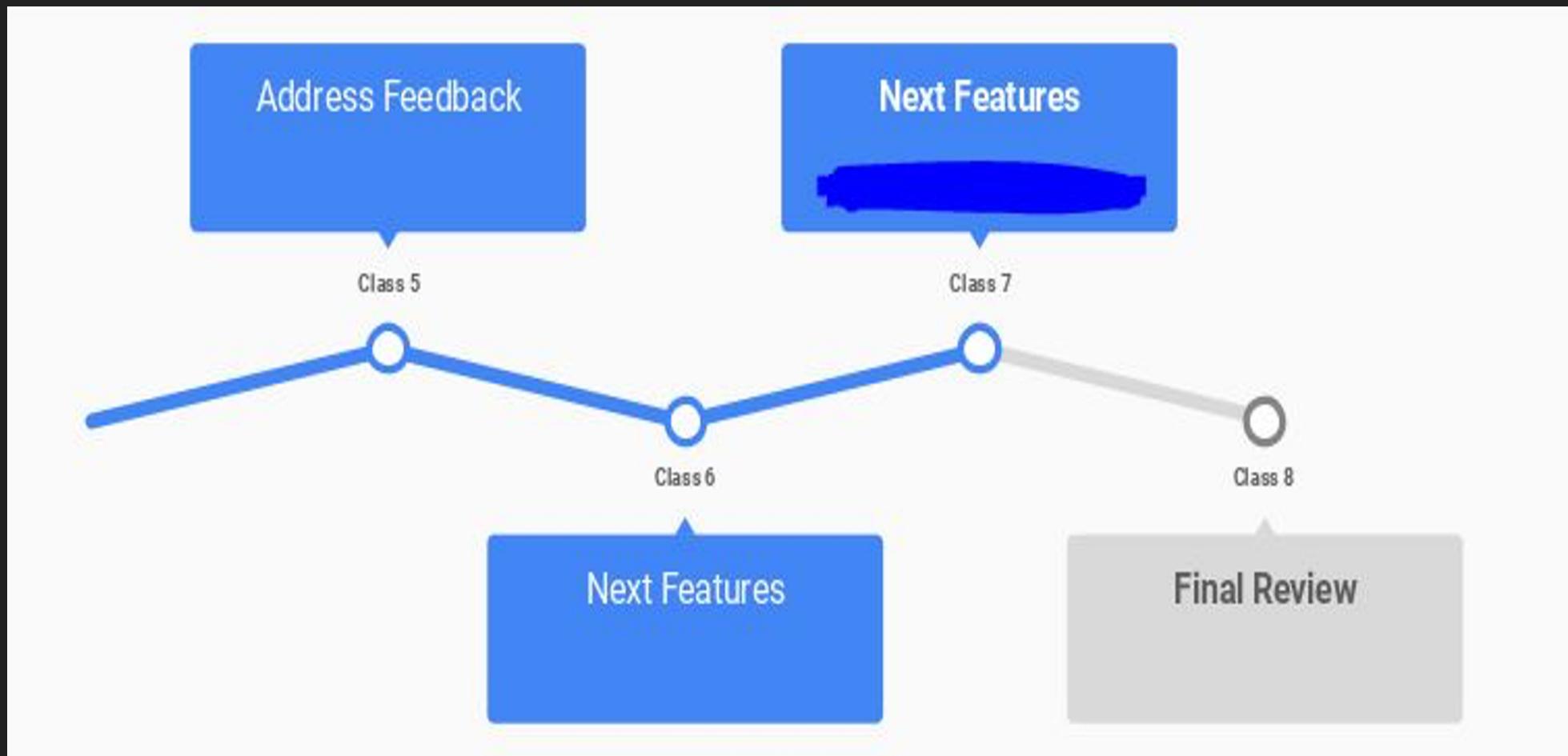
- Liftoff
- Class 7
- January 12, 2021

Agenda

- . Deployment
- . Linting



Project Timeline



Deploy!



Expectations

Deployment can be difficult and time consuming.

Deploy if your application is ready to demo for potential employers.

Being able to deploy full-stack applications may not be expected right away.

Deployment – Why?

- So other people can use it!
- Learn new skills
- Market yourself



There is no cloud
it's just someone else's computer



Deployment – How?

<https://levelup.gitconnected.com/a-checklist-for-deploying-code-to-production-c62098daf8d7>

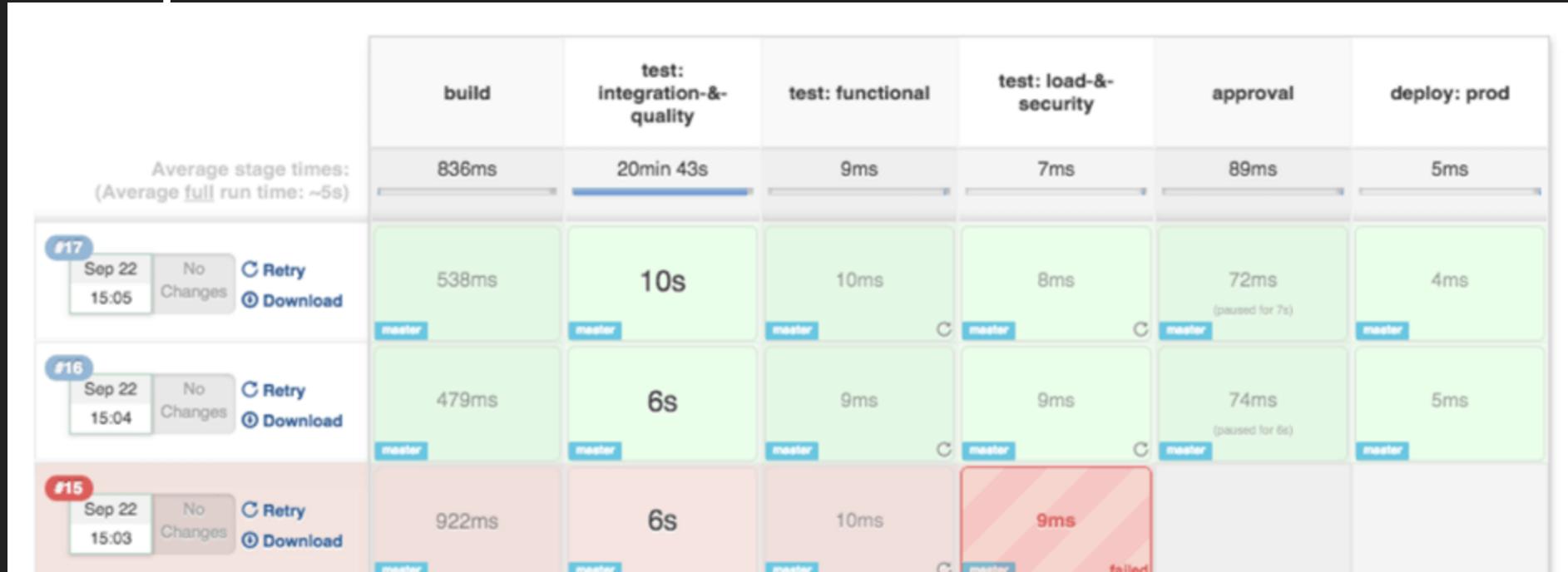
- Version of code to deploy to Non-Prod/Prod.
- Testing in Non-Prod
- Pipelines - automated processes to compile, build and deploy code
- Backup
- Deploy
- Test on Live server



Deployment – How?

<https://levelup.gitconnected.com/a-checklist-for-deploying-code-to-production-c62098daf8d7>

- In industry
 - Varies from company to company
 - Sometimes you never deploy
 - Pipelines



Deployment – How?

- On your own
 - Package application code
 - Select a hosting service
 - Create deployment config
 - Configure routing (adding dbs, etc)
 - Set up credentials and secrets
 - Push and deploy



Deployment – Options!

- . Cloud providers
 - Amazon Web Services (AWS)
 - Google Cloud / Firebase
 - Microsoft Azure
 - Heroku
 - Netlify
 - Digital Ocean
- . Each one is slightly different



Deployment – Considerations

- Cost
 - Most providers have a free tier
 - Databases often cost
 - SET BILLING TRIGGERS AND ALERTS
- Scalability
 - Can your settings handle the traffic?
- How often do you want to update?
 - Update on git pushes?
- Security
 - Protect your secrets!!!



Automation!



Deployment

Q & A



Linting

- What is a linter?

Is a tool that analyzes source code to flag programming errors, bugs, stylistic errors, and suspicious constructs.



<https://sourcelevel.io/blog/what-is-a-linter-and-why-your-team-should-use-it>



Linting

- Automated check of code for errors, adherence to conventions and quality.
 - Can be used as a stand alone tool or integrated into an IDE
 - Can also be part of a deployment pipeline
- Most work by loading a style guide or rule set to follow
- Every language has style guides available



Linting

- Why bother?
 - Consistency: Enforces the same code style for all devs across a project
 - Quality: Linters can help identify sections of code that could be refactored
 - Safety: Linters can provide immediate feedback on errors that may not trigger when the program compiles



Most used linters and style guides

- Javascript

- Linter: ESLint, JSLint
 - Style guides: AirBNB, Idiomatic

- Java

- Linter: IntelliJ, Checkstyle
 - Style guide: Google

- C#

- Linter: Visual Studio
 - Style guide: Microsoft



Linting

Q & A



Project Presentation and Demo

- Next Wednesday
- Summarize your project
- Progress to date
- Problem areas
- Coolest things you've learned
- Use slides
- Demo if you can



Group Activity

- Stand up
- Project work



- Next week:
 - Project presentations
 - The end.

