Design Doc Template

Background

Background on the problem we're solving.

Design Goals

Requirements and goals of the project. This should also include numbers like traffic assumptions, usage, uptime requirements, etc.

Other Proposals

Options that were looked at, but we evaluated that weren't going to work

Option 1

Option 2

Solution Summary

Summary of the solution in a paragraph or two.

Solution Details

Details of the solution...feel free to add/remove sections that make sense, some starter ones are below.

System diagram

Diagram of all the binaries, databases and 3rd party services that this system touches

Wire frames

Any wireframes for the UI if this has a frontend component?

Code

Where is the code going to go? Does this touch any common repos? Any new repos being created?

Testing

What kind of testing is going to be done. Unit tests, regression tests, etc.

Scaling

What aspects of traffic do we need to think about for scaling. If the traffic goes 10x, we ok? could the database grow 10x and cause issues?

Operation details

Details that the operations team might want to know like location of binaries, monitoring to be setup, oncall, etc

Internationalization

Do we need to think about spanish?

Tradeoffs made

Write out the big tradeoffs made