

Project specifications

Core specifications

1. web application
 - developed locally
 - should be deployable to [AWS Elastic Beanstalk](#)
 - free of charge if only resources in [AWS Free Tier](#) are used
2. browse information about all human kinases
 - name
 - gene symbol
 - family
 - location in cell
 - known phosphosites
3. browse human kinase phosphorylation sites
 - genomic location
 - neighbouring sequence
4. background info about all known inhibitors of human kinases
 - name
 - chemical structure
 - kinases they are known to inhibit
5. allow user to upload quantitative phosphoproteomics data of the format provided in example file `az20.tsv`
 - summarise data graphically
 - provide estimate of relative activity of every human kinase in the sample
6. general
 - working prototype
 - interactive demonstration of functionality
 - would need to be passed to professional developers/web designers to turn into a fully polished web application
 - documentation provided
 - within the program code
 - in a dedicated document
 - explain software structure
 - explain how it works

Additional specifications

(for stuff we have added)

Specifications wish list

(for stuff we think would be nice to add)