Final project proposal

Members: Yi Fu ([yi.fu2@nyulangone.org](mailto:yi.fu2@nyulangone.org)), Sheela Prasad ([Sheela.Prasad@nyulangone.org](mailto:Sheela.Prasad@nyulangone.org))

Project: design gRNAs for CRISPR

User input DNA sequence either through input or fasta file. User specify which Cas protein. User specify usage, editing or imaging. The program will check if the input is DNA. Then program will find unique/ most abundant segments. From those segments, the program will find the ones with corresponding PAM sequence. Program will return gRNA sequences in fasta format.