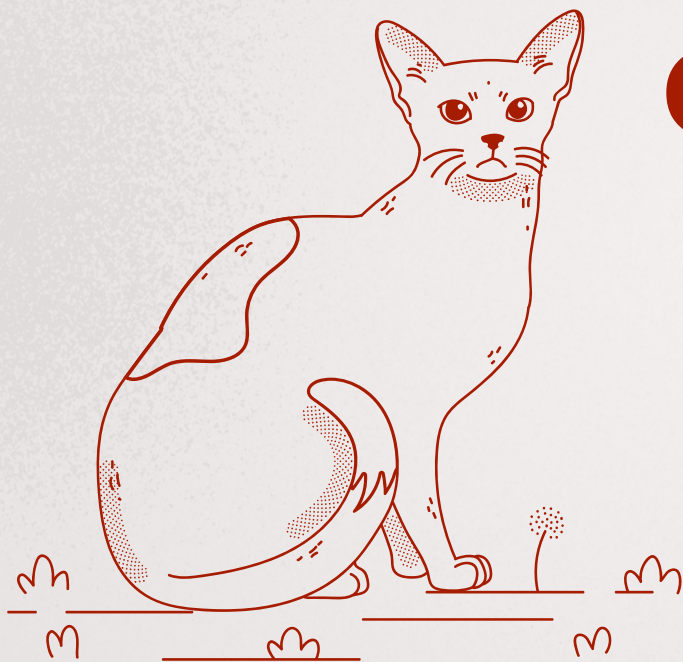


FelineGenome Explorer

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DBW: Application Project





CATS: mammals or aliens?

In search for the answer we present
the **FelineGenome Explorer**
A cutting edge bioinformatical tool
for decoding the cat DNA developed
to help understand the *true* nature
of cats.

Key Functionality:



1. Genome Browser

Browse the curated database of cat genes with links to outside sources



2. Visualization

Visualize genetic mutations within genes



3. Breed Explorer

Explore the differences in the genetic makeup of different breeds



4. Pictures!

Enjoy the pictures of cats included

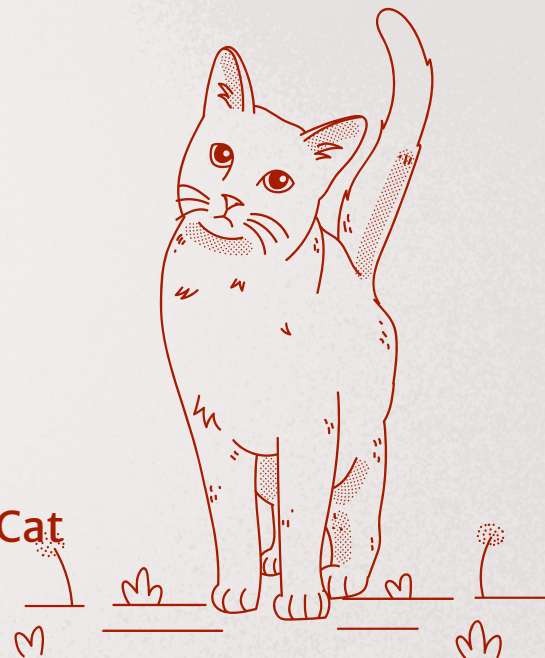


Input:

- Gene Name
- Cat breed
- Chromosomal location
- FASTA file

Output:

- Gene Profile
- Gene Sequence
- Visualization Tool
- Links to External Sources
- Information About Cat Breed
- Citation
- Picture of a Cat

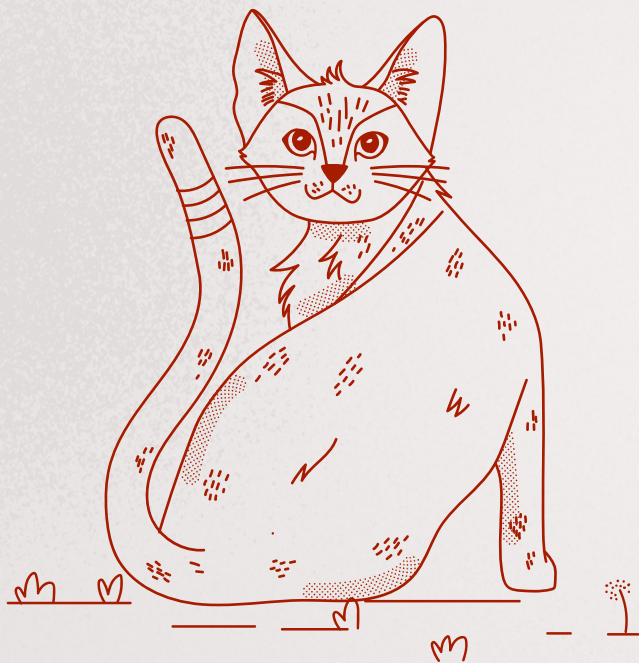


Specification

The Application Will be developed using the following tools and programming languages

Front End	HTML, CSS, JavaScript, links to external stylesheets (TBD)
Back end	PHP
Database	MySQL
Additional	Python (TBD), Perl (AS IF!)
Visualization tools	Python modules
Links to External Resources	UniProt, NCBI Blast, etc.





Stay tuned!

Thank you!