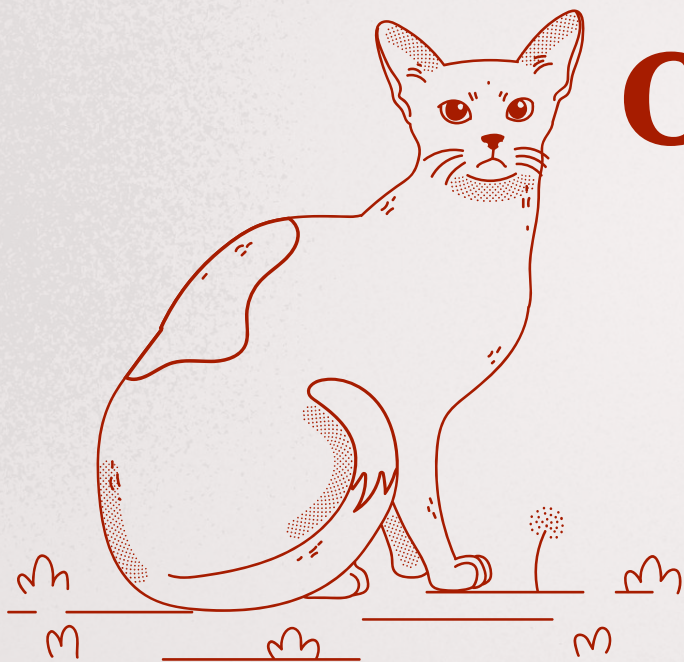


# FelineGenome Explorer

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**DBW: Application Project**





# CATS: mammals or aliens?

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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. Create your Profile

Manage your Past searches and Data. Include your own sources

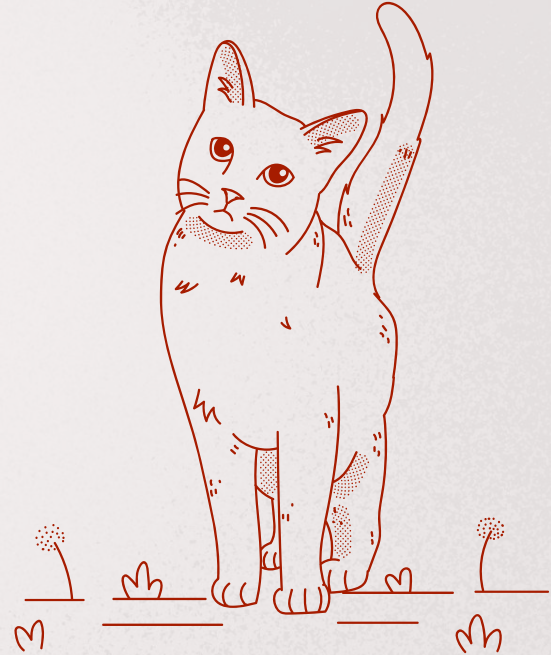


# Input:

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

# Output:

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

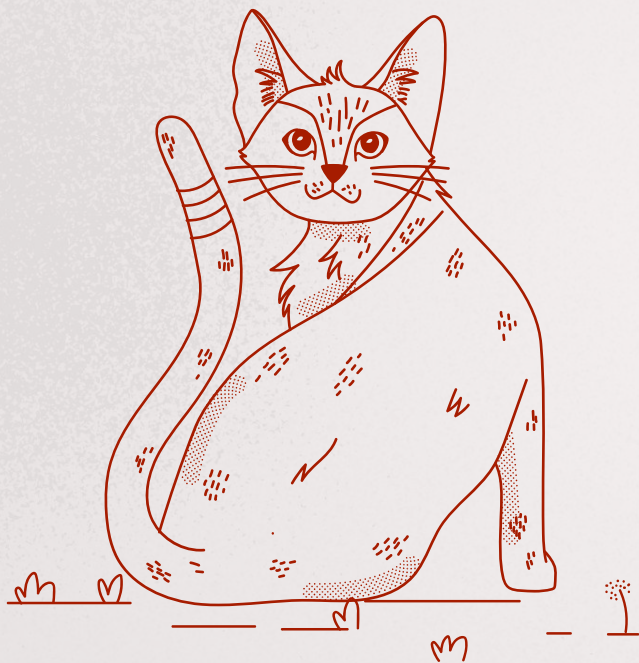


# Specification

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/Python
Database	MySQL
Additional	Python (TBD)
Visualization tools	Python modules
Links to External Resources	UniProt, NCBI Blast, etc.





# Stay tuned!

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Thank you!