**Final Project:**

Technologies to use:

- The UNIX OS and filesystem

- Placement/organization of files within a web application

- Python CGI programming

- CGI and HTML templates

- HTML5 document markup

- Relational database schema design

- MySQL

- Using mysql.connector python module to connect to MySQL

- Limited page styling with CSS

- Javascript and JQuery for client-side interaction

1. Data collection (used from NCBI > Gene > p53)
2. Data into database (all the fields into SQL database)
3. Data analysis on the server (Checking for the inheritance type)
4. Use HTML, CSS, CGI programming, and MySQL connector
5. Use Javascript and JQuery
6. Render data as a webpage

**Note: rRNA database- used for nucleic acid-based detection and identification of microbes, their taxonomic assignment, phylogenetic analysis and the investigation of microbial diversity. It provides the research community with aligned and annotated rRNA gene sequence data, along with tools to allow researchers to analyze their own rRNA gene sequences in the RDP framework. 16S rRNA gene is conserved in bacteria, and contain hypervariable regions that can provide species-specific signature sequences, 16S rRNA sequencing is widely used in identification of bacteria and phylogenetic studies. 16S rRNA sequencing is featured by fast speed, cost-efficiency, and high-precision**.

Enzyme collection:

-DNA

-RNA

-Exons involved

-Transcription

-Translation (GVPXRR………)

-Post translation (edited version of translation)

-protein expression level

-its consequences

Data that can be downloaded as tables and can put in the database.

Each OMIM entry is assigned a unique six-digit number whose first digit indicates whether its inheritance is autosomal, X-linked, Y-linked or mitochondrial: 1, autosomal loci or phenotypes (entries created before May 15, 1994); 2, autosomal loci or phenotypes (entries created before May 15, 1994); 3, X-linked loci or phenotypes; 4, Y-linked loci or phenotypes; 5, mitochondrial loci or phenotypes; and 6, autosomal loci or phenotypes (created after May 15, 1994).