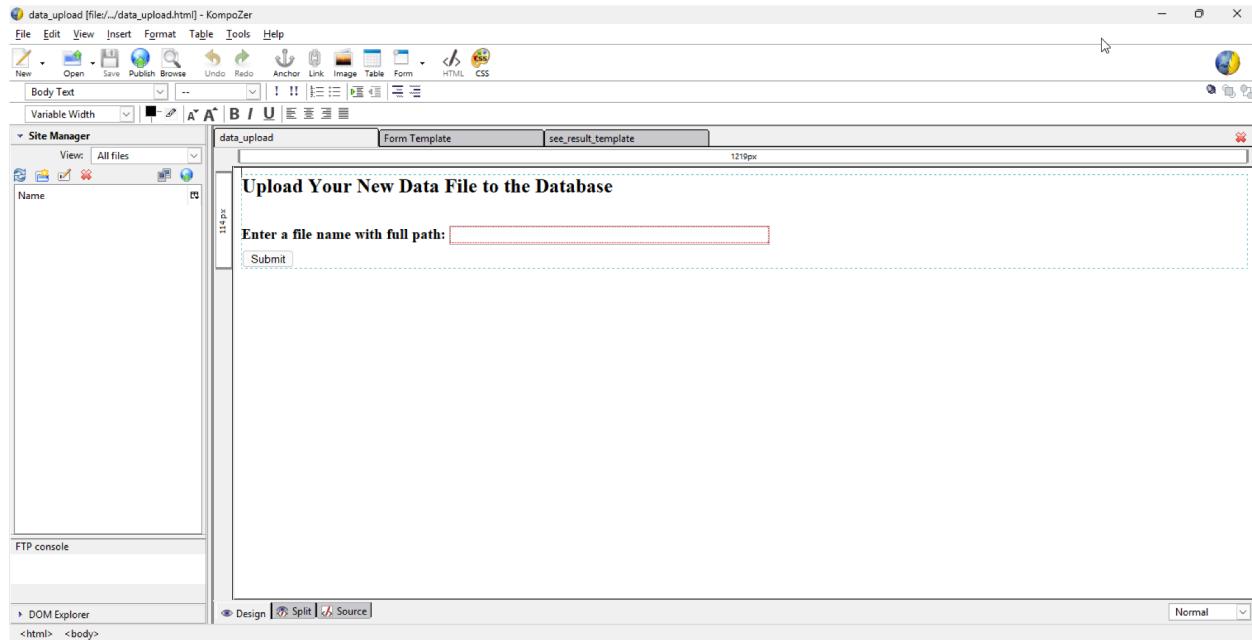


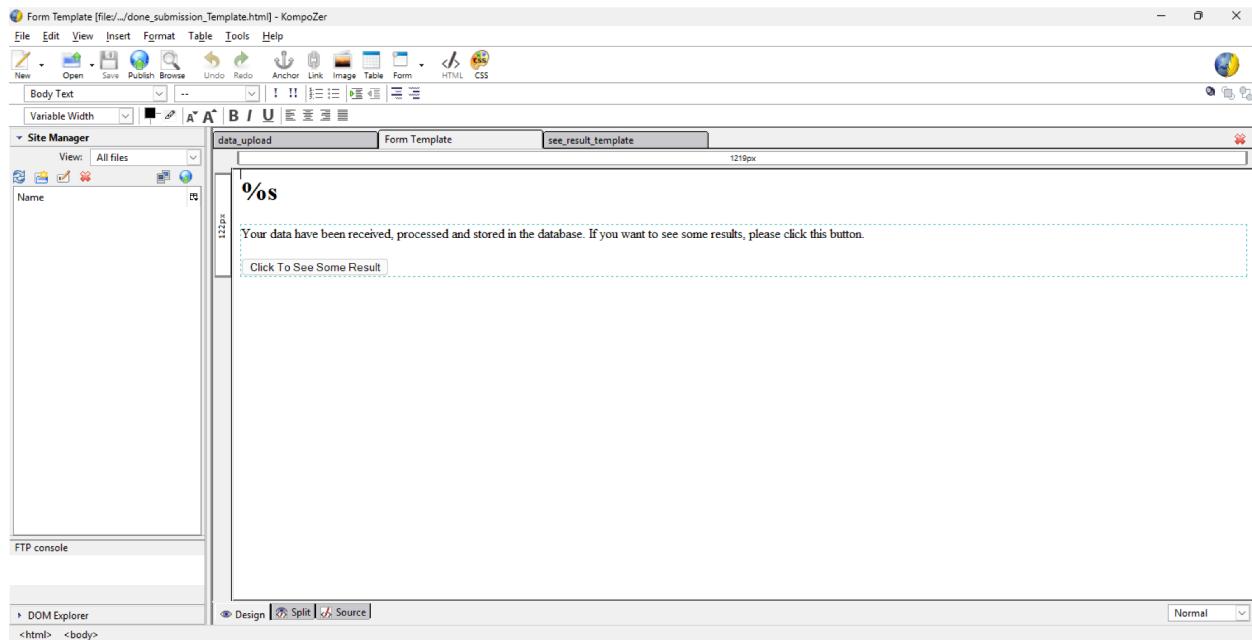
STSCI 4060 Final Project

Henry Tan (ht492)

1. The design window of input web page – data_upload.html



2. The design window of template web page – done_submission_Template.html



3. The design window of template web page – see_result_template.html

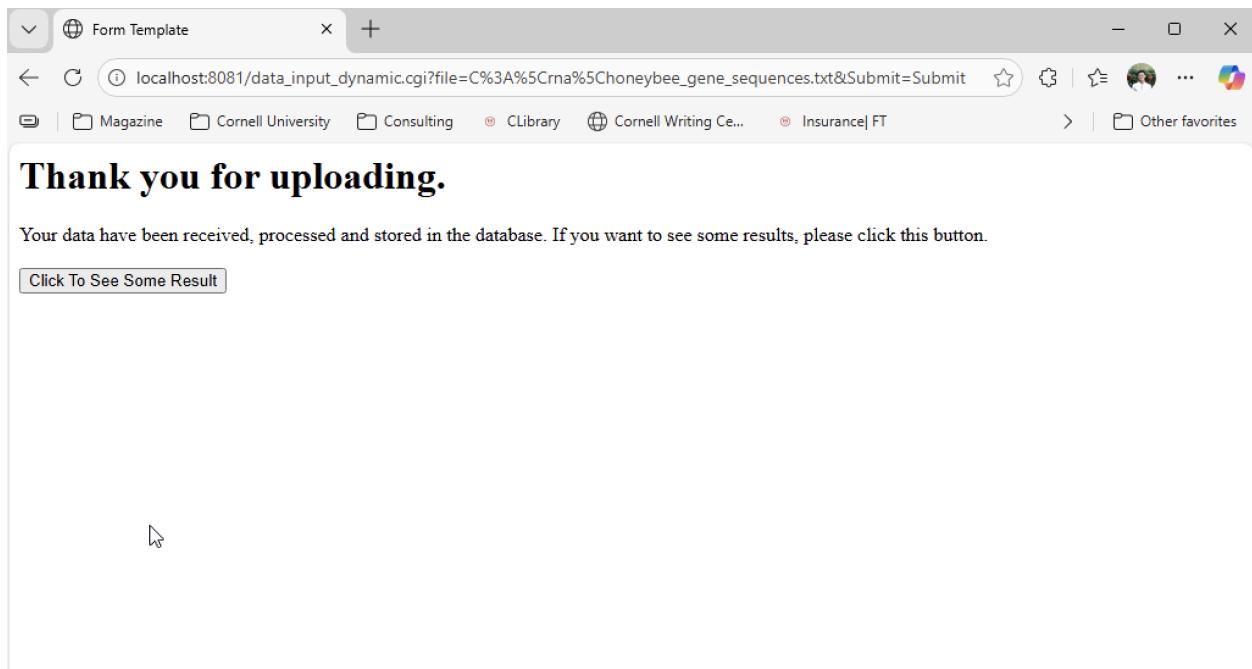
The screenshot shows the KompoZer web editor interface. The title bar reads "see_result_template [file:///see_result_template.html] - KompoZer". The menu bar includes File, Edit, View, Insert, Format, Table, Tools, and Help. The toolbar contains icons for New, Open, Save, Publish, Browse, Undo, Redo, Anchor, Link, Image, Table, Form, HTML, and CSS. The main workspace displays a table titled "Honey Bee Genes with Highest Occurrence of Each Nucleotide". The table has four columns: Nucleotide, Code, gi (Gene ID), and Highest Relative Frequency. The rows list Adenine (A), Cytosine (C), Guanine (G), and Thymine (T) with their respective codes and gene IDs.

Nucleotide	Code	gi (Gene ID)	Highest Relative Frequency
Adenine	A	%({A_gi})s	%({A_freq})s
Cytosine	C	%({C_gi})s	%({C_freq})s
Guanine	G	%({G_gi})s	%({G_freq})s
Thymine	T	%({T_gi})s	%({T_freq})s

4. A screenshot of input web page with input value entered

The screenshot shows a web browser window with the address bar displaying "localhost:8081/data_upload.html". The page title is "data_upload". The content area contains a heading "Upload Your New Data File to the Database" and a form field labeled "Enter a file name with full path:" followed by a text input box containing "C:\rna\honeybee_gene_sequences.txt". Below the input box is a "Submit" button.

5. A screenshot of confirmation web page that displays successfully submitted the data



6. A screenshot of final web page that displays the results of database query

Nucleotide	Code	gi (Gene ID)	Highest Relative Frequency
<u>Adenine</u>	A	197245430	0.5141843971631206
<u>Cytosine</u>	C	292494906	0.3838951310861423
<u>Guanine</u>	G	292494901	0.35705045278137126
<u>Thymine</u>	T	343410563 334725204 334725205 334725203 334725196	0.4424498416050686

7. A screenshot of local CGI server log

```
C:\Users\Henry Tan\AppData\Local\Temp\wsl\Ubuntu-20.04\root@ip-172-31-10-10:~# Localhost CGI server started
Localhost CGI server started
127.0.0.1 - - [11/Dec/2025 10:03:38] "GET /data_upload.html HTTP/1.1" 200 -
127.0.0.1 - - [11/Dec/2025 10:03:38] code 404, message File not found
127.0.0.1 - - [11/Dec/2025 10:03:38] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [11/Dec/2025 10:03:59] "GET /data_input_dynamic.cgi?file=C%3A%5Crna%5Choneybee_gene_sequences.txt&Submit=Submit HTTP/1.1" 200 -
127.0.0.1 - - [11/Dec/2025 10:03:59] command: "C:\\\\Users\\\\Henry Tan\\\\AppData\\\\Local\\\\Microsoft\\\\WindowsApps\\\\PythonSoftwareFoundation.Python.3.13_qbz5n2kfra8p0\\\\python.exe" -u C:\\\\rna\\\\data_input_dynamic.cgi
127.0.0.1 - - [11/Dec/2025 10:04:00] CGI script exited OK
127.0.0.1 - - [11/Dec/2025 10:04:14] "GET /data_output_from_db.cgi?view+result=Click+To+See+Some+Result HTTP/1.1" 200 -
127.0.0.1 - - [11/Dec/2025 10:04:14] command: "C:\\\\Users\\\\Henry Tan\\\\AppData\\\\Local\\\\Microsoft\\\\WindowsApps\\\\PythonSoftwareFoundation.Python.3.13_qbz5n2kfra8p0\\\\python.exe" -u C:\\\\rna\\\\data_output_from_db.cgi
127.0.0.1 - - [11/Dec/2025 10:04:14] CGI script exited OK
```

8. The result of Oracle table query for the gene sequence of the last entry