

```
#!/usr/bin/env python3
```

```
"""
```

Python script which generates landing page for the database.

Simple script to generate the index.html file so that we can pick up configuration information from the config file.

```
"""
```

```
# Add the CGI directory which is where the config file lives
```

```
import sys
```

```
sys.path.insert(0, "../cgi-biocomp2")
```

```
import config
```

```
print(
```

```
"""<!DOCTYPE html>
```

```
<!-- This is the index.html script, Author: Farah Khan, Version: 1, Date: 02/05/2022
```

```
-->
```

```
<html>
```

```
<head>
```

```

```

```
<title>Biocomputing II - framework</title>
```

```
<link rel='stylesheet' type='text/css' href='css/biocomp2.css' />
```

```
</head>
```

```
<body>
```

```
<div class='content'>
```

```
<h1><center>Biocomputing II - Group 6 Database</center></h1>
```

```
<p>An online database containing information for various genes found
in Human Chromosome 1.</p>
```

```
<p>This database allows you to search for specific genes based on multiple
parameters including: Accession Number, Chromosomal Location and Protein products
among others. The results page will return a table of information regarding the gene you have
searched for. For example, if you search 'RHD' in 'Gene ID' the results will show you
information only for genes with that Gene ID, as well as their accession numbers, protein
products etc.
```

```
</p>
```

```
<p><b>Note</b> A table will also be returned for each specific entry,
highlighting respective codon usage in said entry, as well as across the entire database. Upon
clicking a specific entry, a more detailed breakdown for the search can be seen, with
information such as restriction enzyme sites.
```

```
</p>
```

```
<p>
```

```
<a href='"" + config.listallurl + ""'>List all entries</a>
```

```
</p>
```

```
<form action='"" + config.listallurl + ""' method='get'>
```

```
<p class="center"><b>Search by:</b></p>
```

```
<table class="center">
```

```
<tr>
```

```
<td>Genbank Accession</td>
```

```
<td><input type='text' name='ac' /></td>
```

```
</tr>
```

```
<tr>
  <td>Gene Identifier</td>
  <td><input type='text' name='gi' /></td>
</tr>
<tr>
  <td>Protein Product</td>
  <td><input type='text' name='ppn' /></td>
</tr>
<tr>
  <td>Chromosomal Location</td>
  <td><input type='text' name='loc' /></td>
</tr>
</table>
```

```
<p><input type='Submit' value='Search' /></p>
```

```
</form>
</div> <!-- content -->
</body>
</html>
""")
```