**Dummy Tables for the Database**

Gene Table

|  |  |  |  |
| --- | --- | --- | --- |
| Chromosome No  (Integer) | Gene ID  (String) | Gene Name  (String) | Gene Type  (String) |
| 1 | ENSG00000223972 | DDX11L | Pseudogene |
| 1 | ENSG00000243485 | MIR1302 | lincRNA |

Population Table

|  |  |
| --- | --- |
| Population ID  (String) | Description  (String) |
| AFA |  |
| HIS |  |
| CAU |  |
| METS |  |

Algorithm Table

|  |  |
| --- | --- |
| Algorithm ID  (String) | Algorithm Description  (String) |
| EN | Elastic Net |
| KNN | K Nearest neighbor |
| RF | Random Forest |
| SVR | Support Vector Regression |

Gene Models (Performance)

RF x3 pops (AFA, HIS, CAU)

|  |  |  |  |
| --- | --- | --- | --- |
| Gene ID  (String) | Cross\_val Performance  (Float) | Trees  (Integer) | Population ID  (String) |
|  |  | 100 |  |
|  |  | 300 |  |

SVR x3 pops (AFA, HIS, CAU)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Gene ID  (String) | Cross\_val Performance  (Float) | Kernel  (String) | Degree  (Integer) | C  (Float) | Population ID  (String) |
|  |  | sigmoid | 1 | 0.001 |  |
|  |  | Linear | 3 | 0.2 |  |

KNN x3 pops (AFA, HIS, CAU)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Gene ID  (String) | Cross\_val Performance  (Float) | Neigbours  (Integer) | Weight  (String) | P  (Integer) | Population ID  (String) |
|  |  |  | distance | 3 |  |
|  |  |  | uniform | 5 |  |

User Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User ID  (Integer) | First Name  (String) | Last Name  (String) | Email  (String) | Password  (String) | User type  (String) |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Prediction result table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gene ID  (String) | Predicted Value  (Float) | Model Population ID  (String) | Model Algorithm ID  (String) | User ID  (String) |
|  |  |  |  |  |
|  |  |  |  |  |

Job Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Job ID  (Integer) | Job Title  (String) | Job Description  (String) | Job Status  (String) | User ID  (Integer) |
|  |  |  |  |  |
|  |  |  |  |  |