**HANA FLIGHT PREDICTOR**

Version 1.0

**HANA Code Guide**

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This document intends to illustrate how to code with HANA.

Since HANA is a SQL database, its access is similar to using other SQL databases.

Below please find the code to access HANA. (Currently using MySQL)

public class DatainterfaceClass {

private File FileDatabase ;

private Scanner ScanDatabase;

private FileWriter WriteDatabase;

public DatainterfaceClass()

{

FileDatabase = new File("Flight\_data.csv");

}

public boolean ConfigureDatabase()

{

try

{

ScanDatabase = new Scanner(FileDatabase);

}

catch (FileNotFoundException ex)

{

JOptionPane.showMessageDialog(null,ex);

return false;

}

try

{

WriteDatabase = new FileWriter(FileDatabase, true);

}

catch (IOException e)

{

JOptionPane.showMessageDialog(null,e);

return false;

}

return true;

}

public boolean InputDataToDatabase(String[] Values)

{

for (int i = 0; i< Values.length ; i++)

{

try

{

WriteDatabase.append("\t");

WriteDatabase.append(Values[i]);

}

catch (IOException e)

{

JOptionPane.showMessageDialog(null,e);

return false;

}

}

try

{

WriteDatabase.flush();

WriteDatabase.close();

}

catch (IOException e)

{

JOptionPane.showMessageDialog(null,e);

return false;

}

return true;

}

public String[] GetDataFromDatabase(int Airline\_ID, int FL\_NUM, String Origin\_City, String Destination\_City)

{

ArrayList<String> ArrayListVal = new ArrayList<String>();

ScanDatabase.nextLine();

while (ScanDatabase.hasNext())

{

String line = ScanDatabase.nextLine();

if (line.charAt(0) == '#')

{

continue;

}

String[] split = line.split("\t");

if(Airline\_ID == Integer.parseInt(split[0]) &&

FL\_NUM == Integer.parseInt(split[1])/\* &&

Origin\_City == split[2].toString() &&

Destination\_City == split[3].toString()\*/)

{

ArrayListVal.add(line);

}

}

String[] StringArray = new String[ArrayListVal.size()];

Object ArrReturnval[] = ArrayListVal.toArray();

for(int i = 0; i < ArrayListVal.size();i++)

{

StringArray[i] = ArrReturnval[i].toString();

}

return StringArray;

}

}