Weka Grain

Task List

Version I.I

Following is the list of Various tasks, so grab one and start working!

✓ Task 1

enriching a data type.

```
#File to be altered : RandomDataProvider.java
```

More languages can be added to the enumeration lang[] (highlighted in bold),ruby,fortran,smalltalk etc.



Adding Proper JavaDoc Comments

#File to be altered RandomDataProvider.java

∨ Task 3

ADDING A NEW DATA TYPE

This is also an easy process but involvoes modifying code at 2-3 places. #File to be altered: RandomStringProvider.java,GrainStringParser.java

#example:

We will show how to add a data type by adding a one, called ide_name.It returns an IDE name selected randomly.

First of all we need to equip our random data provider with the ability to provide This datatype i.e. ,we should be able to instruct RandomStringProvider object to supply a random IDE name.

A)Defining the datatype

1)Let us first define the data,a string of integers.
String IDEName[]={"Eclipse","NetBeans","Visual Studio","DevC++"};

2)having defined the data type we need to create a function who picks one random IDE name from the list and returns it to the caller.

The function prototype is as follows:

String getRandomIDEName();

Note the function name, get<datatypename>.Please adhere to this notation.

3) Now we know how the function looks like, let us now add the logic.we basically generate a random number and then use this as an index to the array. the string thus found is returned.

```
The code looks as follows:
    public String getRandomIDEName()
{
String IDEName[]={"Eclipse","NetBeans","Visual Studio","DevC++"};

    Random r=new Random();
    int index=(r.nextInt(10000))%IDEName.length; //get a random number
    return IDEName[index]; //return a random IDEName
```

Just to remind you, we have to add this function in RandomDataProvider.java So we are done with defining the data type, now we have to couple it with the code. B) Adding our datatype to the list of datatypes. 1)Adding the data type to the list of datatypes (displayed on the right with orange background) -open MainWindow.java -find String infoStr -append your datatype name to the list -initially the list looks like: String infoStr="Data Types Available\n1. name : Name \n2. int id : Integer ID" + "\n3. dept: Department\n4. yn : Yes /No\n5. tf : True / False\n6. gender :" +" Gender\n7. ph : Mobile Phone Number\n8. clang : Computer Language\n9. grocery : Grocery Item\n10. state : Indian State and UT" +"\n11. weather:Weather Conditions\n12. marks : Marks (out of 100) "; -now we'll add our data type ide name String infoStr="Data Types Available\n1. name : Name \n2. int id : Integer ID" + "\n3. dept: Department\n4. yn : Yes /No\n5. tf : True / False\n6. gender :" +" Gender\n7. ph : Mobile Phone Number\n8. clang : Computer Language\n9. grocery : Grocery Item\n10. state : Indian State and UT" +"\n11. weather:Weather Conditions\n12. marks : Marks (out of 100)\n13. ide_name:Name Of an IDE "; the format is as follows: \n<number>.datatypename:short description now we'll have to extend our parser ,GrainStringParser.java to add support for our new datatype. C) Now we'll add the support to parse the datatype, ide name 1.open GrainStringParser.java 2.find a list of "private static final int definition" and append your datatype at the end. obviously, you can give any name to describe the datatype ,we use IDENAME. private static final int ID=1, DEPT=2, YES N0=3, TRUE FALSE=4, GENDER=5, PHONE=6, NAME=7, COMPLANG=8, GROCERY=9, STATE=10, MARKS=11, WEATHER=12. IDENAME=13;<--added

3.next we will modify parseGrainString() function.

}

-Extending arffWriter()

generation for this data type.

In both these functions, we have to add the case IDENAME to handle the data

-Extending writeCSVData(PrintWriter pw)

```
case DEPT:
attribVal=rdp.getRandomIDEName();
break;
```

Congrats, you have just added a new data type :).



Adding the readme file.

If you feel that you know how WekaGrain works, write a readme for us explaining how to use the software.

Refer http://daringfireball.net/projects/markdown/ for details.