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| **CLASS DIAGRAM** |
| DATA GENERATOR v1.0 |
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| *It contains functional details of project “Data Generator” done by project group SKNCOE-2.* |
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| ***SKNCOE-2 Group*** |
| **11/10/2011** |
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DATA GENEATOR

1.0

REVISION HISTORY

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| # | Name | Date | Version | Remarks |
| 1 | SKNCOE2 | 10-Nov-2011 | 1.0 | Draft |
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DESCRIPTION OF CLASEES AND INTERFACES

1. parse\_file
2. The class parse\_file will read the config file line by line.
3. The function read\_line() will read one line at a time from the file.
4. The function parse\_line() will parse the line which is read by the function read\_line().
5. Each line will have a column name, column datatype, column format. These details are stored in the form of object of the class parse\_file which has attributes col\_name, col\_datatype, col\_format.
6. <<interface>>parser
7. The above functions read\_line(),parse\_line() are used for parsing config file. To parse the xml file we are using some in built libraries (ex. xerces libraries). Hence the interface parser provides implementation to the class parse\_file.
8. Xerces-C++ source distribution comes with Microsoft Visual C++ projects and solutions.
9. data\_generator
10. This is the class which generates the data.
11. The attributes required for this class are datatype and the data format of the column.
12. The data generated for each column by its inherited classes will be stored in the vector.
13. Each such vector will be stored in the map.
14. This is the parent class and two classes are inherited from this class .
15. generator\_random\_data
16. It is the class which generates the random data.
17. It has three member functions-

-gen\_rand\_string()- generates random string

-gen\_rand\_num()- generates random number

-gen\_rand\_date()-generates random date

1. generator\_with\_existing\_database
2. It generates data by referring to the existing database. For this we need to maintain foreign key relationship between the tables.
3. existing\_database
4. It is the database which is already present.
5. table

The database contains one or more tables with primary key – foreign key relationship.