

DAO Implementation

Introduction:

DAO layer is for accessing the data from various data source (XML, CSV, Database)

Steps for Reading Data from Excel:

Import the jar in to your project and provide the location of the file that needs to be read.

Code to Read Data:

```
import com.pkrm.CreateReader;
import com.pkrm.Reader;
import com.pkrm.csv.CsvReaderImplementation;
import com.pkrm.db.DbReaderImplementation;
import com.pkrm.excel.ExcelReaderImplementation;
import com.pkrm.xml.XmlReaderImplementation;

public class TestClient {

    private Reader readProducer = null;

    public static void main(String[] args) throws Exception {

        Reader readProducer = CreateReader.createReader("excel");
        ExcelReaderImplementation excelReader =
            readProducer.readExcelFile("D:\\test\\Personal Administration.xls", 0);
        List<Map<String, String>> excelDataList = excelReader.read();
    }
}
```

Steps for Reading Data from CSV:

Import the jar in to your project and provide the location of the file that needs to be read.

Code to Read Data:

```
import com.pkrm.CreateReader;
import com.pkrm.Reader;
import com.pkrm.csv.CsvReaderImplementation;
import com.pkrm.db.DbReaderImplementation;
import com.pkrm.excel.ExcelReaderImplementation;
import com.pkrm.xml.XmlReaderImplementation;

public class TestClient {

    private Reader readProducer = null;

    public static void main(String[] args) throws Exception {

        readProducer = CreateReader.createReader("CSV");
        CsvReaderImplementation csvReader =
            readProducer.readCsvFile("D:\\test\\Jsontocsv.csv");
        List<Map<String, String>> csvDataList = csvReader.read();
    }

}
```

Steps for Reading Data from DB:

Import the jar in to your project and provide database configuration details to access.

Code to Read Data:

```
import com.pkrm.CreateReader;
import com.pkrm.Reader;
import com.pkrm.csv.CsvReaderImplementation;
import com.pkrm.db.DbReaderImplementation;
import com.pkrm.excel.ExcelReaderImplementation;
import com.pkrm.xml.XmlReaderImplementation;
```

DAO Layer

```
public class TestClient {  
  
    private static String driver = "org.postgresql.Driver";  
    private static String url = "jdbc:postgresql://10.5.50.43/Test";  
    private static String userName = "postgres";  
    private static String password = "postgres";  
    private static String tableName = "select * from COMPANY";  
  
    public static void main(String[] args) throws Exception {  
  
        readProducer = CreateReader.createReader("DB");  
        DbReaderImplementation dbReader = readProducer.readDbTableData(driver,  
            url, userName, password, tableName);  
        List<Map<String, String>> dbDataList = dbReader.read();    }  
  
}
```

Dependencies:

Need to run below command in the client machine.

```
mvn install:install-file -DgroupId=Reader -DartifactId=Reader -Dversion=0.0.1-SNAPSHOT -  
Dpackaging=jar -Dfile=C:\Users\Vishnu\jars\Reader-0.0.1-SNAPSHOT.jar
```

Below Jars are required to access the DAO

[Reader-0.0.1-SNAPSHOT.jar](#)