UserApp.java

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* Countries of the World App 1.0
* UserApp.java "User Application"
* Waleed Gudah
*/
public class UserApp {
   private CountryDataTable DTable;
   private TheLog tLog;
   private TransData td;
   public UserApp(CountryDataTable DTable, int fileNumber, TheLog tLog) {
      this.DTable = DTable;
      this.tLog = tLog;
      this.td = new TransData(fileNumber, tLog);
      tLog.statusCode("UserApp started");
      processUserInput();
   }
   public void processUserInput() {
      while (td.nextRecord() == true) {
         inputSwitch(td.getKey());
      td.finishUp();
   }
   // This method determines the Selection made by the transaction file //
   // and calls one of the 4 helper methods below to perform the appropriate
   // task.//
   public void inputSwitch(String key) {
      switch (key) {
      case "IN":
         insertNode();
         break;
      case "DN":
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deleteNode();
      break;
   case "SA":
      selectAll();
      break;
   case "SN":
      tLog.transProcess("");
      selectNode();
      break;
   }
}
private void deleteNode() {
   tLog.transProcess(td.getKey() + " " + td.getCountry());
   DTable.deleteNode(td.getCountry());
}
private void selectAll() {
   tLog.transProcess(td.getKey());
   tLog.toLog("
                CDE NAME----- CONTINENT---- ----AREA ---POPULATION LIFE");
   DTable.inOrderTraverse(0);
  tLog.toLog("
                }
       // This method guarantees the node being selected is found before writing to
// log, ie echo//
private void selectNode() {
   tLog.transProcess(td.getKey() + " " + td.getCountry());
  DTable.selectNode(DTable.binarySearch(td.getCountry()));
}
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