1

```
ExperSet.java
```

```
/// Plot test
/// By Brygg Ullmer, MIT Media Lab
/// Begun November 1, 2001
/// Based on threading template by Ben Fry (fry@media.mit.edu),
/// 4/18/2001, and WinHelp Java Tutorial: AnimatorApplication.java.
/// Arthur van Hoff
import java.util.*;
import java.awt.*;
import java.awt.event.*;
import java.awt.geom.*;
import java.awt.image.*;
import javax.swing.*;
import java.io.*;
public class ExperSet { // experiment set
/////// MEMBERS //////////
 BldqDbMqr
          dbMgr = null;
 Hashtable
        experSet = null;
 Experiment currentExp = null;
 int currentExpNum = 0;
// int currentExpNum = 1;
 int numExpSets = 4;
 static int[][] expSeq =
  {{1, 2},
   {2, 1},
   {10,11,12,13},
   {20,21,22,23}};
 private int numExperiments = 0;
public ExperSet(BldgDbMgr dbMgr) {
  this.dbMgr = dbMgr;
  experSet = new Hashtable();
  loadExperiments();
public void loadExperiments() {
```

```
Experiment expr;
   Criteria crit1, crit2, crit3, crit4;
 //// TRIAL ////
   expr = new Experiment(dbMgr, 21);
   crit1 = new Criteria("max sqft", "sq_foot", 1, 4300, 0, 4300);
   crit2 = new Criteria("max acreage", "acreage", 1, 3, 0, 3);
   crit3 = new Criteria("near A", "distToA", 1, 0, 0, 40);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.addCriteria(crit3);
     expr.expectedScore = 1.5;
     expr.expectedScore = .1;
    expr.expectedScore = .07;
   expr.expectedScore = .001;
   addExperiment(expr);
 expr = new Experiment(dbMgr, 2);
   crit1 = new Criteria("near A", "distToA", 1, 0, 0, 40);
   crit2 = new Criteria("near B", "distToB", 1, 0, 0, 40);
   crit3 = new Criteria("min price", "listing_price", 1, 0, 0, 1200);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.addCriteria(crit3);
// expr.expectedScore = .15;
// expr.expectedScore = .315;
   expr.expectedScore = .001;
   addExperiment(expr);
/// RUN 1/
 expr = new Experiment(dbMgr, 10);
   crit1 = new Criteria("min price", "listing_price", 1, 0, 0, 1200);
   crit2 = new Criteria("max acreage", "acreage", 1, 3, 0, 3);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.expectedScore = .15;
   expr.expectedScore = .001;
```

```
addExperiment(expr);
 expr = new Experiment(dbMgr, 11);
   crit1 = new Criteria("near A", "distToA", 1, 0, 0, 40);
   crit2 = new Criteria("max sqft", "sq_foot", 1, 4300, 0, 4300);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.expectedScore = .15;
   expr.expectedScore = .043;
   addExperiment(expr);
 expr = new Experiment(dbMgr, 11);
   crit1 = new Criteria("medium price", "listing_price", 1, 500, 0, 1200);
   crit2 = new Criteria("medium acreage", "acreage", 1, 1.5, 0, 3);
   crit3 = new Criteria("near B", "distToB", 1, 0, 0, 40);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.addCriteria(crit3);
    expr.expectedScore = 2.5;
     expr.expectedScore = .03;
   expr.expectedScore = .09;
   addExperiment(expr);
 expr = new Experiment(dbMgr, 5);
   crit1 = new Criteria("medium sqft", "sq foot", 1, 2000, 0, 4300);
   crit2 = new Criteria("max acreage", "acreage", 1, 3, 0, 3);
   crit3 = new Criteria("price ~= 300", "listing_price", 1, 300, 0, 1200);
   crit4 = new Criteria("near A", "distToA", 1, 0, 0, 40);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.addCriteria(crit3);
   expr.addCriteria(crit4);
     expr.expectedScore = 2.5;
   expr.expectedScore = .13;
   addExperiment(expr);
/////// RUN 2 /////////
/// TEST ///
   expr = new Experiment(dbMgr, 20);
   crit1 = new Criteria("min price", "listing price", 1, 0, 0, 1200);
```

```
crit2 = new Criteria("max sqft", "sq foot", 1, 4300, 0, 4300);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.expectedScore = .15;
   addExperiment(expr);
 expr = new Experiment(dbMgr, 21);
   crit2 = new Criteria("max acreage", "acreage", 1, 3, 0, 3);
   crit3 = new Criteria("near B", "distToB", 1, 0, 0, 40);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.expectedScore = 1.5;
    expr.expectedScore = .1;
   expr.expectedScore = .07;
   addExperiment(expr);
 expr = new Experiment(dbMgr, 22);
   crit1 = new Criteria("max acreage", "acreage", 1, 3, 0, 3);
   crit2 = new Criteria("max acreage", "acreage", 1, 3, 0, 3);
   crit1 = new Criteria("near A", "distToA", 1, 0, 0, 40);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.expectedScore = .15;
   expr.expectedScore = .166;
   addExperiment(expr);
 expr = new Experiment(dbMgr, 23);
   crit1 = new Criteria("min price", "listing_price", 1, 0, 0, 1200);
   crit2 = new Criteria("medium sqft", "sq_foot", 1, 2000, 0, 4300);
   crit3 = new Criteria("medium acreage", "acreage", 1, 1.5, 0, 3);
   crit4 = new Criteria("near B", "distToB", 1, 0, 0, 40);
   expr.addCriteria(crit4);
   expr.addCriteria(crit1);
   expr.addCriteria(crit2);
   expr.addCriteria(crit3);
// expr.expectedScore = 2.5;
   expr.expectedScore = .13;
   addExperiment(expr);
public void addExperiment(Experiment newExp) {
     experSet.addElement(newExp);
```

```
Integer key = new Integer(newExp.getId());
  experSet.put(key, newExp);
  numExperiments++;
public int nextExperiment() {
  currentExpNum++;
  if (currentExpNum > numExperiments) {
    currentExpNum = -1;
  } else {
    setCurrentExperiment(currentExpNum);
  return currentExpNum;
public void setCurrentExperiment(int whichExp) {
  getExperiment(whichExp);
public Experiment getCurrentExperiment() {
  return currentExp;
public Experiment getExperiment(int whichExp) {
  Integer key = new Integer(whichExp);
  currentExp = (Experiment) experSet.get(key);
  return currentExp;
public static int dcnt;
 public void dbg(String s) {
  System.out.println("ExperSet." + (dcnt++) + ": " + s);
//// END ////
```