Code Smell 1:

Code Snippet:

//  
// Source code recreated from a .class file by IntelliJ IDEA  
// (powered by FernFlower decompiler)  
//  
  
package biz.ganttproject.core.calendar;  
  
import biz.ganttproject.core.calendar.GPCalendarCalc.MoveDirection;  
import biz.ganttproject.core.time.DateFrameable;  
import biz.ganttproject.core.time.TimeDuration;  
import biz.ganttproject.core.time.TimeUnit;  
import com.google.common.collect.Lists;  
import java.util.Date;  
import java.util.Iterator;  
import java.util.List;  
  
abstract class GPCalendarBase implements GPCalendarCalc {  
 private final List<GPCalendarListener> myListeners = Lists.*newArrayList*();  
 private String myName;  
 private String myId;  
  
 GPCalendarBase() {  
 }  
 (…)  
 public Date findClosest(Date time, TimeUnit timeUnit, GPCalendarCalc.MoveDirection direction, GPCalendar.DayType dayType, Date limit) {  
 return this.doFindClosest(time, timeUnit, direction, dayType, limit);  
 }  
 protected Date doFindClosest(Date time, DateFrameable framer, GPCalendarCalc.MoveDirection direction, GPCalendar.DayType dayType, Date limit) {  
 Date nextUnitStart = direction == MoveDirection.FORWARD ? framer.adjustRight(time) : framer.jumpLeft(time);  
 int nextUnitMask = this.getDayMask(nextUnitStart);  
 switch (dayType) {  
 case WORKING:  
 if ((nextUnitMask & 1) == 1) {  
 return nextUnitStart;  
 }  
 break;  
 case NON\_WORKING:  
 case WEEKEND:  
 case HOLIDAY:  
 if ((nextUnitMask & 1) == 0) {  
 return nextUnitStart;  
 }  
 break;  
 default:  
 assert false : "Should not be here";  
 }  
 return limit == null || (direction != MoveDirection.FORWARD || nextUnitStart.compareTo(limit) < 0) && (direction != MoveDirection.BACKWARD || nextUnitStart.compareTo(limit) > 0) ? this.doFindClosest(nextUnitStart, framer, direction, dayType, limit) : null;  
 }  
//(…)

Location on the code base: ganttproject\biz.ganttproject.core\bin\main\biz\ganttproject\core\calendar\GPCalendarBase.java

Code Smell identification: Speculative Generality – the method doFindClosest(…) has unnecessary code at the time in the switch (lines 93-96)

Refactoring proposal:

Eliminate the speculative code and add a relatable comment for the future when we implement the code

Code Smell 2

Code Snippet:

//(…)  
  
 public void setPublicHolidays(Collection<CalendarEvent> holidays) {  
 }  
  
 public String getBaseCalendarID() {  
 return null;  
 }  
  
 public void setBaseCalendarID(String id) {  
 }  
  
 public void importCalendar(GPCalendar calendar, ImportCalendarOption importOption) {  
 }  
}

Location on the code base: ganttproject\biz.ganttproject.core\bin\main\biz\ganttproject\core\calendar\AlwaysWorkingTimeCalendarImpl.java

Code Smell identification: Dead Code – Between lines 85 and 96, the methods are not finished and/or not used.

Refactoring proposal: Eliminate the dead code if it wouldn’t be used.

Code Smell 3:

Code Snippet:

//  
// Source code recreated from a .class file by IntelliJ IDEA  
// (powered by FernFlower decompiler)  
//  
  
package net.sourceforge.ganttproject;  
  
public class PrjInfos {  
 private String \_sProjectName;  
 private String \_sDescription;  
 private String \_sOrganization;  
 private String \_sWebLink;  
  
 public PrjInfos() {  
 this.\_sProjectName = "Untitled Gantt Project";  
 this.\_sDescription = "";  
 this.\_sOrganization = "";  
 this.\_sWebLink = "http://";  
 }  
  
 public PrjInfos(String sProjectName, String sDescription, String sOrganization, String weblink) {  
 this.\_sProjectName = sProjectName;  
 this.\_sDescription = sDescription;  
 this.\_sOrganization = sOrganization;  
 this.\_sWebLink = sWebLink;  
 }  
  
 public String getName() {  
 return this.\_sProjectName;  
 }  
  
 public void setName(String projectName) {  
 this.\_sProjectName = projectName;  
 }  
  
 public String getDescription() {  
 return this.\_sDescription;  
 }  
  
 public void setDescription(String description) {  
 this.\_sDescription = description;  
 }  
  
 public String getOrganization() {  
 return this.\_sOrganization;  
 }  
  
 public void set organization(String organization) {  
 this.\_sOrganization = organization;  
 }  
  
 public String getWebLink() {  
 return this.\_sWebLink;  
 }  
  
 public void setWebLink(String webLink) {  
 this.\_sWebLink = webLink;  
 }  
}

Location on the code base: ganttproject\bin\main\net\sourceforge\ganttproject\PrjInfos.class

Code Smell identification: Data Class – PrjInfos is a class only with getters and setters and with no real functionality.

Refactoring proposal: Review the code that uses the class. May find functionality that would be better located in the data class itself.