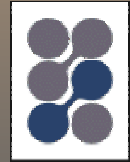




ATHENS UNIVERSITY
OF ECONOMICS AND BUSINESS
DEPARTMENT OF MANAGEMENT SCIENCE & TECHNOLOGY



Lesson: Advanced Topics in Software Engineering

Project name: jGnash

Part III: Implementation

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We know from the part II Design of Modification that we have to make changes to the script IncomeExpensePieChart.bsh and add extra .property files in order to implement these changes.

Pie Chart Modification

jGnash - 1.10.3 [/disk2/shome/Students2003/gparas/jgnash/Dokimi.jgnash.xml]

File Reports Edit View Tools Help

Open Save Cut Copy Paste

Accounts

Register

Remind...

Account list

Account Name

- Bank Acco
- Alpha B
- Euroba
- Omega
- Αγροτι
- Εθνική
- Ταχυδρ
- Expense A
- DVD's
- Alex
- BeCo
- Shoppin
- Καταβ
- Income Ac

Account Balance

Expense Accounts

Percent Expense - Expense Accounts

Before the modification

Account Name	Amount
Καταβολή ενοικίων	89,888
Shopping	33,708
DVD's	20,225

Close

AutoSave has been turned off

5644 Kb / 64640 Kb

Start gpa... Micr... Τμή... EDU... Exc... gpa... Java Yah... Τμή... gpa... jGn... EN 5:07 μμ

Pie Chart Modification

Microsoft PowerPoint - [Implementation.ppt]
jGnash - 1.10.3 [/disk2/shome/Students2003/gparas/jgnash/Dokimi.jgnash.xml]

File Reports Edit View Tools Help

Open Save Cut Copy Paste

Account register

Reconcile Filter Columns Resize Zoom Print

Balance: 400,00 € Reconciled Balance: 0,00 €

Καταβολή ενουκίων

Date	Num	Payee	Memo	Account	Clr	Expense	Rebate	Balance
01/04/2006		Papado...		Bank A...		400,00		400,00 €

The expense account that are registered in April '06

New Duplicate Jump Delete

Expense Rebate Transfer Adjust

Payee: Number: ▼

Account: Bank Accounts ▼ Splits Date: 29/5/2006 ...

Memo: Amount:

Reconciled Exchange Rate:

Enter Cancel

Transaction added 10305 Kb / 65856 Kb

Start 60 Mic... Τμ... ED... Ex... gp... Ne... Ya... Τμ... gp... jGn... EN 5:31 μμ

Pie Chart Modification

NetBeans IDE 4.1

jGnash - 1.10.3 [/disk2/shome/Students2003/gparas/jgnash/Dokimi.jgnash.xml]

File Reports Edit View Tools Help

Open Save Cut Copy Paste

Account register

Reconcile Filter Columns Resize Zoom Print

Bank Accounts: Alpha Bank, Eurobank, Omega Bank, Αγροτική Τράπεζα, Εθνική Τράπεζα, Ταχυδρομικό Ταμιευτήρι

Expense Accounts: DVD's, AlexanderTheGreat, BeCool, Shopping, Καταβολή ενουκίων, Income Accounts

Expense Accounts Balance: -195,00 € Reconciled Balance: 0,00 €

Date	Payee	Account	Expense	Rebate	Balance
07/05/2006	Metropolis	DVD's		45,00	-45,00 €
11/05/2006	Glou	Shopping		150,00	-195,00 €

New Duplicate Jump Delete

Expense Rebate Transfer Adjust

Payee: _____ Number: _____

Account: Bank Accounts Splits Date: 29/5/2006

Memo: _____ Amount: _____

Reconciled Exchange Rate: _____ Enter Cancel

Transaction added 9309 Kb / 65856 Kb

The expense account that are registered in May '06

Pie Chart Modification

NetBeans IDE 4.1
jGnash - 1.10.3 [./disk2/shome/Students2003/gparas/jgnash/Dokimi.jgnash.xml]

File Reports Edit View Tools Help

Open Save Cut Copy Paste

Accounts

- Bank Account
- Alpha Bank
- Eurobank
- Omega Bank
- Αγροτική
- Εθνική Τράπεζα
- Ταχυδρομική
- Expense Accounts
- DVD's
- Alexandra
- BeCool
- Shopping
- Καταβολή
- Income Account

Account Balance

Expense Accounts

Start Date: 31/5/2005 End Date: 29/5/2006 Refresh

Percent Expense - Expense Accounts

Start and End Date Insertion

Category	Amount
Καταβολή ενοικίων	89,888
DVD's	20,225
Shopping	33,708

Reconciled Balance: 0,00 €

Balance
1.200,00 €

20/5/2006

Close Cancel

Transaction added

9053 Kb / 65344 Kb

Start gpa... Micr... Τμή... EDU... Exc... gpa... Net... Yah... Τμή... gpa... jGn... EN 5:14 μμ

Pie Chart Modification

Microsoft PowerPoint - [Implementation.ppt]

jGnash - 1.10.3 [/disk2/shome/Students2003/gparas/jgnash/Dokimi.jgnash.xml]

File Reports Edit View Tools Help

Open Save Cut Copy Paste

Accounts

- Bank Accounts
- Alpha Bank
- Eurobank
- Omega Bank
- Αγροτική
- Εθνική Τράπεζα
- Ταχυδρομική
- Expense Accounts
- DVD's
- Alexandra
- BeCool
- Shopping
- Καταβολή
- Income Accounts

Account Balance

Expense Accounts

Start Date: 1/4/2006 End Date: 30/4/2006 Refresh

Percent Expense - Expense Accounts

Change of Start and End Date

Category	Amount
Καταβολή ενοικίων	89,888
DVD's	20,225
Shopping	33,708

Reconciled Balance: 0,00 €

Balance
1.200,00 €

20/5/2006

Close Cancel

Transaction added

8080 Kb / 65600 Kb

Start gpa... Micr... Τμή... EDU... Exc... gpa... Net... Yah... Τμή... gpa... jGn... EN 5:15 μμ

Pie Chart Modification

Microsoft PowerPoint - [Implementation.ppt]

jGnash - 1.10.3 [/disk2/shome/Students2003/gparas/jgnash/Dokimi.jgnash.xml]

File Reports Edit View Tools Help

Open Save Cut Copy Paste

Accounts

- Bank Account
- Alpha Bank
- Eurobank
- Omega Bank
- Αγροτική
- Εθνική Τράπεζα
- Ταχυδρομική
- Expense Accounts
- DVD's
- Alexandra
- BeCo
- Shopping
- Καταβολή
- Income Accounts

Account Balance

Expense Accounts

Start Date: 1/4/2006 End Date: 30/4/2006 Refresh

Percent Expense - Expense Accounts

After pressing Refresh button

DVD's = 0
Shopping = 0
Καταβολή ενοικίων = 89,888

Reconciled Balance: 0,00 €

	Balance
	1.200,00 €

20/5/2006

Close Cancel

Transaction added

8937 Kb / 65600 Kb

Start 60 Micr... Τμή... EDU... Exc... gpa... Net... Yah... Τμή... gpa... jGn... EN 5:19 μμ

Pie Chart Modification

Microsoft PowerPoint - [Implementation.ppt]
jGnash - 1.10.3 [/disk2/shome/Students2003/gparas/jgnash/Dokimi.jgnash.xml]

File Reports Edit View Tools Help
Open Save Cut Copy Paste

Accounts
Register
Remind...

Account Balance

Expense Accounts

Start Date: 1/5/2006 End Date: 29/5/2006 Refresh

Percent Expense - Expense Accounts

Account	Balance
Αγροτικ	1.200,00 €

reconciled Balance: 0,00 €

Close Cancel

Transaction added 7129 Kb / 65728 Kb

Start 60 Micr... Τμή... EDU... Exc... gpa... Net... Yah... Τμή... gpa... jGn... EN 5:22 μμ

We change again the Start and End Date

Pie Chart Modification

Microsoft PowerPoint - [Implementation.ppt]

jGnash - 1.10.3 [/disk2/shome/Students2003/gparas/jgnash/Dokimi.jgnash.xml]

File Reports Edit View Tools Help

Open Save Cut Copy Paste

Accounts

Register

Remind...

Account Balance

Expense Accounts

Start Date: 1/5/2006 End Date: 29/5/2006 Refresh

Reconciled Balance: 0,00 €

Balance

1.200,00 €

20/5/2006

Close Cancel

Transaction added

8545 Kb / 65728 Kb

Start 60 Mic... Τμή... EDU... Exc... gpa... Net... Yah... Τμή... gpa... jGn... EN 5:24 μμ

After pressing Refresh button

Percent Expense - Expense Accounts

Expense Account	Amount
Καταβολή ενοικίων	0
DVD's	20,225
Shopping	33,708

Pie Chart Modification -- The *diff* file

```
42c42
< import jgnash.ui.components.AccountListComboBox;
---
>
44c44,51
< import jgnash.ui.util.UIResource;
---
>
>
> /**packages necessary for the modification*/
> import java.util.Date;
> import jgnash.util.DateUtils;
> import org.jfree.data.time.*;
> import jgnash.ui.components.*;
> import jgnash.ui.util.*;
48c55,60
< rb = UIResource.get();
---
> UIResource rb = (UIResource) UIResource.get();
> DatePanel startField = new DatePanel();
> DatePanel endField = new DatePanel();
>
> static Date end = DateUtils.lastDayOfMonth(endField.getDate());
> static Date start = DateUtils.previousYear(end);
53a66,72
>
>     startField.setDate(start);
>     JButton refreshButton = new JButton(rb.getString("Button.Refresh"));
>
```

Pie Chart Modification -- The *diff* file

```
60a80,84
>   FormLayout dLayout = new FormLayout("p, 4dlu, p, 8dlu, p, 4dlu, p, 8dlu, p",
""");
>   DefaultFormBuilder dBuilder = new DefaultFormBuilder(dLayout);
>   dBuilder.append(rb.getString("Label.StartDate"), startField);
>   dBuilder.append(rb.getString("Label.EndDate"), endField);
>   dBuilder.append(refreshButton);
64a89,90
>   builder.append(dBuilder.getPanel(), 2);
>   builder.nextLine();
82,83c108,110
<
<   combo.addActionListener(listener);
---
>
>   combo.addActionListener(listener);
>   refreshButton.addActionListener(listener);
90,91d116
<   PieDataset data = createPieDataset(a);
<   PiePlot plot = new PiePlot(data);
104a130,135
>   start = startField.getDate();
>   end = endField.getDate();
>
>   PieDataset data = createPieDataset(a);
>   PiePlot plot = new PiePlot(data);
>
```

Pie Chart Modification -- The *diff* file

```
114a147,149
>     Date [] list = new Date [0];
>
>
116a152,153
>
>     Date dateTrans = a.getTransactionAt(0).getDate();
119a157
>
121a160,169
> System.out.println(a.toString());
> System.out.println(a.getChildCount().toString());
> Account child = a.getChildAt(i);
> System.out.println(child.toString() + i);
>
> System.out.println(start.toString());
> System.out.println(end.toString());
>
>     System.out.println(dateTrans.toString());
>
124a173,175
>
>
>
126c177,179
<         BigDecimal value =
child.getTreeBalance(a.getCommodityNode());
---
> System.out.println(a.getCommodityNode().toString());
>
>     BigDecimal value = child.getTreeBalance(start, end);
```

Localization

Java - engine_en.properties - Eclipse SDK

File Edit Source Refactor Navigate Search Project Run LightUML Window Help

Package Explorer

- jgnash.net.currency
- jgnash.net.rpc
- jgnash.net.security
- jgnash.plugin
- jgnash.report
- jgnash.report.compiled
- jgnash.report.scripts
- jgnash.resource**
- jgnash.resource.html.en
- jgnash.resource.text.de
- jgnash.resource.text.el**
- jgnash.resource.text.es
- jgnash.resource.text.fr
- jgnash.resource.text.it
- jgnash.resource.text.lt
- jgnash.resource.text.pt
- jgnash.resource.text.ru
- jgnash.text
- jgnash.ui
- jgnash.ui.account
- jgnash.ui.archive
- jgnash.ui.commodity
- jgnash.ui.components
- jgnash.ui.components.autocompl
- jgnash.ui.gnucash
- jgnash.ui.list
- jgnash.ui.option
- jgnash.ui.plaf.theme
- jgnash.ui.print.checks
- jgnash.ui.qif
- jgnash.ui.reconcile
- jgnash.ui.register
- jgnash.ui.register.invest
- jgnash.ui.register.table
- jgnash.ui.reminder
- jgnash.ui.report
- jgnash.ui.splash

Main.java engine_en.properties resource_en.properties

```
#Generated by ResourceBundle Editor (http://eclipse-rbe.sourceforge.net)

Message.AccountAdd = Account added
Message.AccountCode = Account code was not unique: The code was not changed
Message.AccountModify = Account modified
Message.AccountRemove = Account removed
Message.AutoSaveOff = AutoSave has been turned off
Message.AutoSaveOn = AutoSave has been turned on
Message.BadPassword = The file may be encrypted or the wrong password was su
Message.CheckRecurring = Checking for new recurring events
Message.EngineStart = Engine started
Message.ErrorLoad = Error when trying to load
Message.FileNotFound = File was not found
Message.StoreBackup = Saving backup to:
Message.StoreComplete = File store is complete
Message.StoreWait = Waiting for file store to complete
Message.TransactionAccountLocked = Transaction add failed, Destination account(s) are lo
Message.TransactionAdd = Transaction added
Message.TransactionRemove = Transaction removed
Message.TransactionRemoveLocked = Transaction removal failed, Destination account(s) are

Name.BankAccounts = Bank Accounts
Name.ExpenseAccounts = Expense Accounts
Name.IncomeAccounts = Income Accounts
Name.Root = Root

Period.Daily = Daily
Period.Monthly = Monthly
Period.None = None
Period.OnlyOnce = Only once
Period.Weekly = Weekly
Period.Yearly = Yearly

addShare = Add Shares
```

Outline

An outline is not available.

Problems Javadoc Declaration Search Console

A console is not available.

2 items selected

Two new property files need to be added to the jgnash.resource package, more specifically the engine_el_GR.properties and the resource_el_GR.properties.

Also a new package needs to be created with the name jgnash.resource.text.el which will contain 10 new text files.

Modification Summary:

We add/modify the packages which are necessary for the modification.

We add the startField and endField DatePanel.

We give initial values to the above fields.

We add a refresh button which allow the program to read and apply the new dates.

We add/modify the layout in order to include the previous components.

We add the necessary listener in order for the refresh button to work.

We invoke the read of the new dates.

We test the functionality by a series of System.out.println commands.

We use the method *child.getTreeBalance(start, end)*; in order to make the program calculate the balance of the Expense account between a start and end date.

We add the necessary property files and property packages so we are able to change to the Greek language.