



SOEN 6471: Advanced Software Architectures

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BUDDI – Personal Budget

Team Members

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We have compiled and assessed this project and believe it to be of a reasonable size for a term project.

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Project Description

Buddi[2] is a software developed for managing personal finance and budgeting. The goal of this application is to help people with little or no financial background. It can be run on almost any platform (Windows, Mac OS X, Linux, and many other operating system) which has java virtual machine installed (Java 1.6 or higher). It can be translated to any languages easily by using its own language editor which allows anyone to edit the translation of the program itself.

Buddi is an open source software developed by *Wyatt Olson*, released under GNU General Public Licenses, that allows anyone to access, modify, and add/remove features to the source code preferably. Its first release (version 0.9 Beta Release) was in May 2006 and its most current stable release is Buddi-3.4.1.11 which was released in August 2013.

In 2011 Buddi was the winner of *About.com Personal Finance Software (Mac)* Award, and also it has been nominated for the *About.com Reader's Choice* Awards.

There are thousands of similar softwares in the market, and most of them are expensive and difficult to understand and maintain. There are some free good tools, as Mint[4], AceMoney[1], MoneyDance[5], YNAB[7] that are listed on a Forbes research about Budgeting Software Options[3], but none of them is an extensible open source project.

All of the above inspires us to choose this software as a part of our project to fulfill the requirements of SOEN 6471/Advanced Software Architecture course.

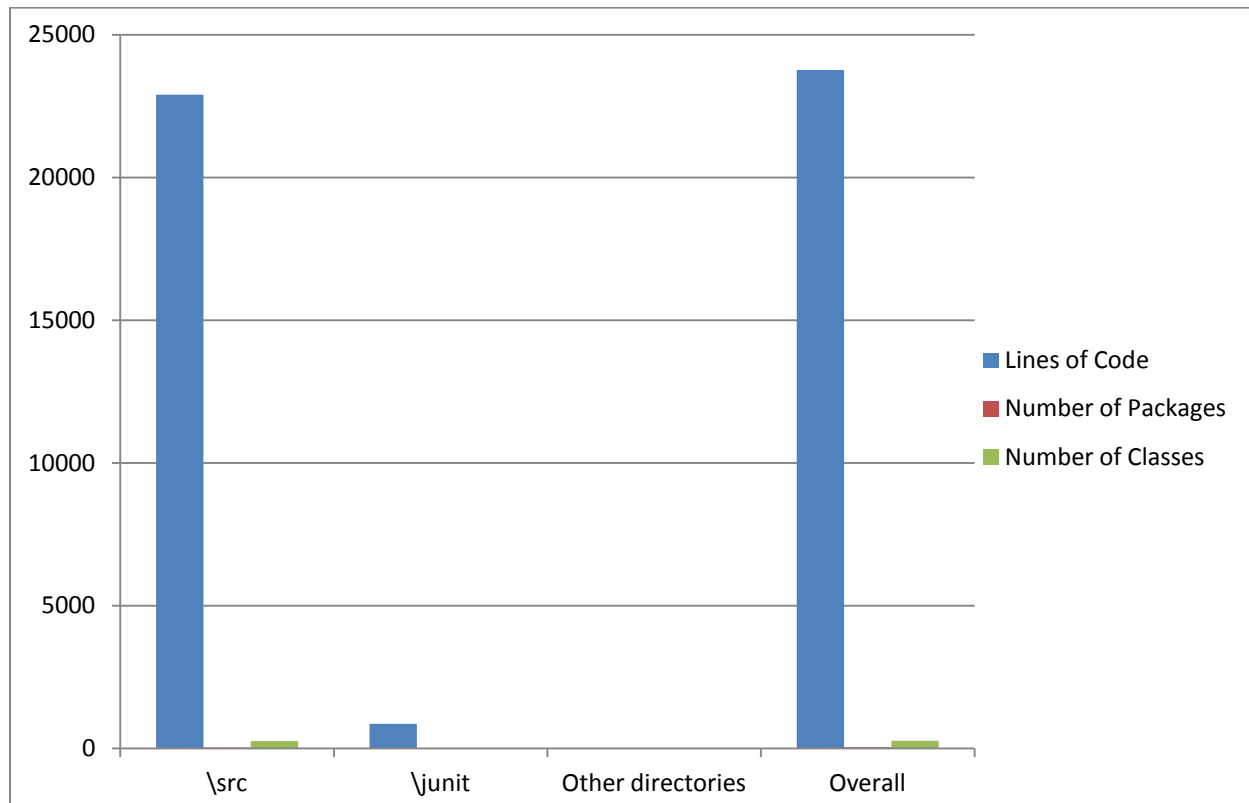
Project Size and Scope

Based on the numbers shown in the table 1 & illustrated in figure 1, we believe that the size of the project is suitable for a term project with a team of five members. Even though it is quite large, by analyzing the whole project, we will be able to understand software architecture in order to apply appropriate refactoring techniques. Buddi Web site is well organized and provides rich documentation which can help both the developers as well as the end-user.

Table 1 – Buddi’s Statistics

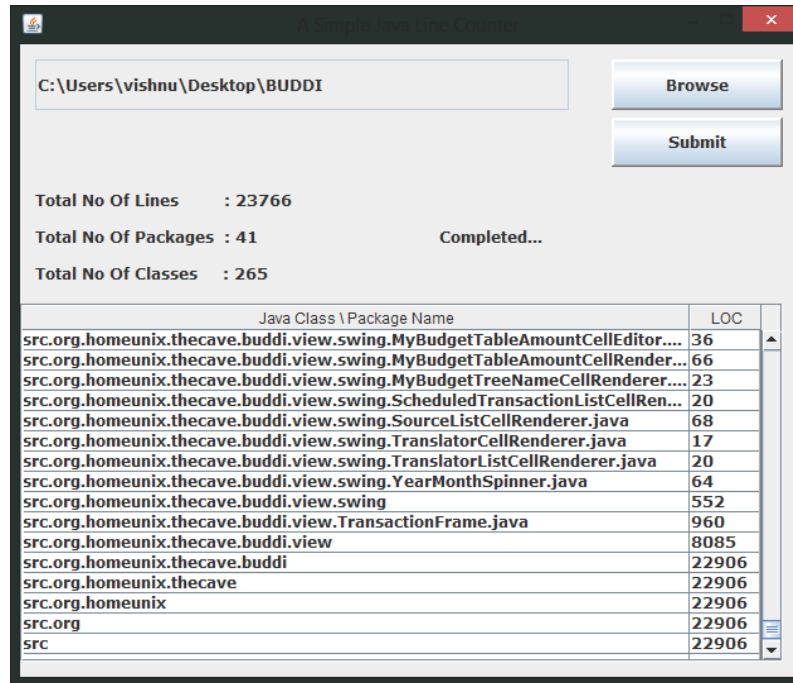
Folder	Lines of Code	Number of Packages	Number of Classes
\src	22906	32	256
\junit	860	7	9
Other directories	0	2	0
Overall	23766	41	265

Figure 1 Bar Chart of table1



Figures 2 & 3 are snapshots of the used tool called *Simple Source line counter in java*[6] to calculate the numbers mentioned in table 1, and all the details are included in the appendix.

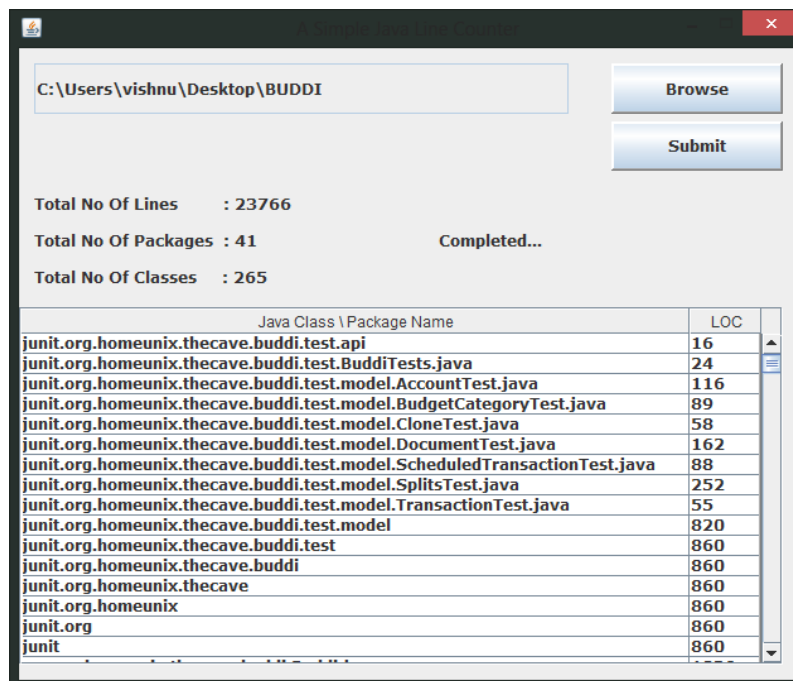
Figure 2 Snapshot of source directory



The screenshot shows the 'Simple Source line counter in java' tool interface. The directory path is 'C:\Users\vishnu\Desktop\BUDDI'. The analysis is completed, showing a total of 23766 lines, 41 packages, and 265 classes. A table lists the source files and their respective Line of Code (LOC) counts.

Java Class \ Package Name	LOC
src.org.homeunix.thecave.buddi.view.swing.MyBudgetTableAmountCellEditor....	36
src.org.homeunix.thecave.buddi.view.swing.MyBudgetTableAmountCellRender...	66
src.org.homeunix.thecave.buddi.view.swing.MyBudgetTreeNameCellRenderer....	23
src.org.homeunix.thecave.buddi.view.swing.ScheduledTransactionListCellRen...	20
src.org.homeunix.thecave.buddi.view.swing.SourceListCellRendererer.java	68
src.org.homeunix.thecave.buddi.view.swing.TranslatorCellRendererer.java	17
src.org.homeunix.thecave.buddi.view.swing.TranslatorListCellRendererer.java	20
src.org.homeunix.thecave.buddi.view.swing.YearMonthSpinner.java	64
src.org.homeunix.thecave.buddi.view.swing	552
src.org.homeunix.thecave.buddi.view.TransactionFrame.java	960
src.org.homeunix.thecave.buddi.view	8085
src.org.homeunix.thecave.buddi	22906
src.org.homeunix.thecave	22906
src.org.homeunix	22906
src.org	22906
src	22906

Figure 3 Snapshot of junit directory



The screenshot shows the 'Simple Source line counter in java' tool interface. The directory path is 'C:\Users\vishnu\Desktop\BUDDI'. The analysis is completed, showing a total of 23766 lines, 41 packages, and 265 classes. A table lists the source files and their respective Line of Code (LOC) counts.

Java Class \ Package Name	LOC
junit.org.homeunix.thecave.buddi.test.api	16
junit.org.homeunix.thecave.buddi.test.BuddiTests.java	24
junit.org.homeunix.thecave.buddi.test.model.AccountTest.java	116
junit.org.homeunix.thecave.buddi.test.model.BudgetCategoryTest.java	89
junit.org.homeunix.thecave.buddi.test.model.CloneTest.java	58
junit.org.homeunix.thecave.buddi.test.model.DocumentTest.java	162
junit.org.homeunix.thecave.buddi.test.model.ScheduledTransactionTest.java	88
junit.org.homeunix.thecave.buddi.test.model.SplitsTest.java	252
junit.org.homeunix.thecave.buddi.test.model.TransactionTest.java	55
junit.org.homeunix.thecave.buddi.test.model	820
junit.org.homeunix.thecave.buddi.test	860
junit.org.homeunix.thecave.buddi	860
junit.org.homeunix.thecave	860
junit.org.homeunix	860
junit.org	860
junit	860

Group Members

Our team consists of software engineers with relevant experiences in programming and system design. Here is a self-description of each group member:

Gustavo Barbieri Pereira:

I have seventeen years of IT experience. Last eight years working as SAP ABAP consultant, using ABAP language compatible to last OO methodologies. As a consultant I have experience in requirements elicitation and apply software design methodologies. I also have basic academic knowledge in JAVA programming that can be applied to our project.

Nikita Parashar:

My name is Nikita Parashar. I had 2 years of work experience in IT sector. I worked as a software tester in the field of automation and manual testing. I had extensive work experience in software development with programming language like Java, PHP and HTML. I have experience in refactoring from my previous course so I think this course can be a good opportunity for me.

Amer Al-Mahdawi:

With over 10 years of experience in software project management, starting from requirement specification to maintenance phase using different programming languages, with the last 3 years were dedicated to object oriented programming languages OOP like C++ and Java, I believe this course, and the application part on this project, will fill all the holes in my knowledge, and give me a complete image of everything related to a software project.

Khalid Altoum:

I have 14 years of experience working in a company abroad, the last three years were in software development. I have experience in project management, requirement engineering and ASP.net programming. I know C#, C++, and Java as OO programming languages. This project will be a great opportunity to learn how to apply refactoring using the gained knowledge from this course, as well as my previous experience.

Vishnu Vardhan Rajmohan:

My one year background experience in IT and relevant coursework has given me a very substantial knowledge about various object oriented programming languages. I was an intern at G-Agencies where I had worked on Face Detection & Face Recognition project using opencv libraries and also gained some experience in refactoring. I believe that at the end of this course I would be able to familiarize software architecture and refactoring techniques.

Used tools:

- Microsoft Word.
- Microsoft Excel.
- A Simple Java Line Counter[6].
- eclipse IDE.

References

- [1] AceMoney: <http://www.mechcad.net/products/acemoney/>
- [2] Buddi : <http://buddi.digitalcave.ca/>
- [3] Forbes: <http://www.forbes.com/sites/moneywisewomen/2012/01/03/budgeting-software-options/>
- [4] Mint: <https://www.mint.com/>
- [5] MoneyDance: <http://moneydance.com/>
- [6] Simple Source Line Counter in Java for Java:
<http://www.codeproject.com/Tips/139036/Simple-Source-Line-Counter-in-Java-for-Java/>
- [7] YNAB: <http://www.youneedabudget.com/>

Appendix

Detailed calculation of lines of code

Java Class/Package Name	LOC
junit.org.homeunix.thecave.buddi.test.api.SplitsTest.java	16
junit.org.homeunix.thecave.buddi.test.api	16
junit.org.homeunix.thecave.buddi.test.BuddiTests.java	24
junit.org.homeunix.thecave.buddi.test.model.AccountTest.java	116
junit.org.homeunix.thecave.buddi.test.model.BudgetCategoryTest.java	89
junit.org.homeunix.thecave.buddi.test.model.CloneTest.java	58
junit.org.homeunix.thecave.buddi.test.model.DocumentTest.java	162
junit.org.homeunix.thecave.buddi.test.model.ScheduledTransactionTest.java	88
junit.org.homeunix.thecave.buddi.test.model.SplitsTest.java	252
junit.org.homeunix.thecave.buddi.test.model.TransactionTest.java	55
junit.org.homeunix.thecave.buddi.test.model	820
junit.org.homeunix.thecave.buddi.test	860
junit.org.homeunix.thecave.buddi	860
junit.org.homeunix.thecave	860
junit.org.homeunix	860
junit.org	860
junit	860
src.org.homeunix.thecave.buddi.Buddi.java	1039
src.org.homeunix.thecave.buddi.Const.java	189
src.org.homeunix.thecave.buddi.i18n.BuddiKeys.java	444
src.org.homeunix.thecave.buddi.i18n.BuddiLanguageEditor.java	109
src.org.homeunix.thecave.buddi.i18n.BuddiTranslator.java	24
src.org.homeunix.thecave.buddi.i18n.keys.BudgetCategoryTypes.java	12
src.org.homeunix.thecave.buddi.i18n.keys.BudgetExpenseDefaultKeys.java	21
src.org.homeunix.thecave.buddi.i18n.keys.BudgetIncomeDefaultKeys.java	17
src.org.homeunix.thecave.buddi.i18n.keys.ButtonKeys.java	35
src.org.homeunix.thecave.buddi.i18n.keys.MenuKeys.java	75
src.org.homeunix.thecave.buddi.i18n.keys.MonthKeys.java	24
src.org.homeunix.thecave.buddi.i18n.keys.PluginRangeFilters.java	32
src.org.homeunix.thecave.buddi.i18n.keys.PluginReportDateRangeChoices.java	9
src.org.homeunix.thecave.buddi.i18n.keys.ScheduleFrequency.java	15

src.org.homeunix.thecave.buddi.i18n.keys.ScheduleFrequencyDayOfMonth.java	38
src.org.homeunix.thecave.buddi.i18n.keys.ScheduleFrequencyDayOfWeek.java	13
src.org.homeunix.thecave.buddi.i18n.keys.ScheduleFrequencyFirstWeekOfMonth.java	13
src.org.homeunix.thecave.buddi.i18n.keys.ScheduleFrequencyMonth.java	18
src.org.homeunix.thecave.buddi.i18n.keys.ScheduleFrequencyWeek.java	10
src.org.homeunix.thecave.buddi.i18n.keys.TransactionClearedFilterKeys.java	9
src.org.homeunix.thecave.buddi.i18n.keys.TransactionDateFilterKeys.java	18
src.org.homeunix.thecave.buddi.i18n.keys.TransactionReconciledFilterKeys.java	9
src.org.homeunix.thecave.buddi.i18n.keys.TypeCreditDefaultKeys.java	19
src.org.homeunix.thecave.buddi.i18n.keys.TypeDebitDefaultKeys.java	18
src.org.homeunix.thecave.buddi.i18n.keys	405
src.org.homeunix.thecave.buddi.i18n	982
src.org.homeunix.thecave.buddi.model.Account.java	82
src.org.homeunix.thecave.buddi.model.AccountType.java	29
src.org.homeunix.thecave.buddi.model.BudgetCategory.java	98
src.org.homeunix.thecave.buddi.model.BudgetCategoryType.java	95
src.org.homeunix.thecave.buddi.model.Document.java	48
src.org.homeunix.thecave.buddi.model.Expandable.java	24
src.org.homeunix.thecave.buddi.model.impl.AccountImpl.java	180
src.org.homeunix.thecave.buddi.model.impl.AccountTypeImpl.java	73
src.org.homeunix.thecave.buddi.model.impl.BudgetCategoryImpl.java	277
src.org.homeunix.thecave.buddi.model.impl.BudgetCategoryTypeMonthly.java	38
src.org.homeunix.thecave.buddi.model.impl.BudgetCategoryTypeQuarterly.java	37
src.org.homeunix.thecave.buddi.model.impl.BudgetCategoryTypeSemiMonthly.java	76
src.org.homeunix.thecave.buddi.model.impl.BudgetCategoryTypeSemiYearly.java	45
src.org.homeunix.thecave.buddi.model.impl.BudgetCategoryTypeWeekly.java	37
src.org.homeunix.thecave.buddi.model.impl.BudgetCategoryTypeYearly.java	38
src.org.homeunix.thecave.buddi.model.impl.ConcurrentSaveException.java	14
src.org.homeunix.thecave.buddi.model.impl.Day.java	18
src.org.homeunix.thecave.buddi.model.impl.DocumentImpl.java	1011
src.org.homeunix.thecave.buddi.model.impl.FilteredLists.java	452
src.org.homeunix.thecave.buddi.model.impl.ModelFactory.java	423
src.org.homeunix.thecave.buddi.model.impl.ModelObjectImpl.java	79
src.org.homeunix.thecave.buddi.model.impl.ScheduledTransactionImpl.java	137
src.org.homeunix.thecave.buddi.model.impl.SourceImpl.java	44
src.org.homeunix.thecave.buddi.model.impl.SplitImpl.java	25

src.org.homeunix.thecave.buddi.model.impl.Time.java	25
src.org.homeunix.thecave.buddi.model.impl.TransactionImpl.java	301
src.org.homeunix.thecave.buddi.model.impl.TransactionSplitImpl.java	52
src.org.homeunix.thecave.buddi.model.impl WrapperLists.java	85
src.org.homeunix.thecave.buddi.model.impl	3467
src.org.homeunix.thecave.buddi.model.ModelObject.java	35
src.org.homeunix.thecave.buddi.model.prefs.PrefsModel.java	421
src.org.homeunix.thecave.buddi.model.prefs.PrefsModelBean.java	328
src.org.homeunix.thecave.buddi.model.prefs	749
src.org.homeunix.thecave.buddi.model.ScheduledTransaction.java	120
src.org.homeunix.thecave.buddi.model.Source.java	49
src.org.homeunix.thecave.buddi.model.Split.java	6
src.org.homeunix.thecave.buddi.model.swing.AutoCompleteEntryModel.java	63
src.org.homeunix.thecave.buddi.model.swing.BackupManagerListModel.java	84
src.org.homeunix.thecave.buddi.model.swing.BudgetDateSpinnerModel.java	23
src.org.homeunix.thecave.buddi.model.swing.DescriptionList.java	49
src.org.homeunix.thecave.buddi.model.swing.MyAccountTreeTableModel.java	119
src.org.homeunix.thecave.buddi.model.swing.MyBudgetTreeTableModel.java	222
src.org.homeunix.thecave.buddi.model.swing.ScheduledTransactionTableModel.java	70
src.org.homeunix.thecave.buddi.model.swing.SourceComboBoxModel.java	139
src.org.homeunix.thecave.buddi.model.swing.TransactionListModel.java	57
src.org.homeunix.thecave.buddi.model.swing	826
src.org.homeunix.thecave.buddi.model.Transaction.java	42
src.org.homeunix.thecave.buddi.model.TransactionSplit.java	11
src.org.homeunix.thecave.buddi.model	5681
src.org.homeunix.thecave.buddi.plugin.api.BuddiExportPlugin.java	56
src.org.homeunix.thecave.buddi.plugin.api.BuddiImportPlugin.java	65
src.org.homeunix.thecave.buddi.plugin.api.BuddiPanelPlugin.java	99
src.org.homeunix.thecave.buddi.plugin.api.BuddiPreferencePlugin.java	71
src.org.homeunix.thecave.buddi.plugin.api.BuddiReportPlugin.java	71
src.org.homeunix.thecave.buddi.plugin.api.BuddiRunnablePlugin.java	30
src.org.homeunix.thecave.buddi.plugin.api.BuddiSynchronizePlugin.java	55
src.org.homeunix.thecave.buddi.plugin.api.BuddiTransactionCellRendererPlugin.java	54
src.org.homeunix.thecave.buddi.plugin.api.exception.DataModelProblemException.java	55
src.org.homeunix.thecave.buddi.plugin.api.exception.InvalidValueException.java	25
src.org.homeunix.thecave.buddi.plugin.api.exception.ModelException.java	25

src.org.homeunix.thecave.buddi.plugin.api.exception.PluginException.java	27
src.org.homeunix.thecave.buddi.plugin.api.exception.PluginMessage.java	41
src.org.homeunix.thecave.buddi.plugin.api.exception	173
src.org.homeunix.thecave.buddi.plugin.api.FileAccess.java	34
src.org.homeunix.thecave.buddi.plugin.api.MenuPlugin.java	63
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableAccount.java	54
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableAccountType.java	25
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableBudgetCategory.java	73
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableBudgetCategoryType.java	72
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableDocument.java	110
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableModelObject.java	26
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableScheduledTransaction.java	74
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableSource.java	37
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableSplit.java	6
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableTransaction.java	102
src.org.homeunix.thecave.buddi.plugin.api.model.ImmutableTransactionSplit.java	16
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableAccountImpl.java	41
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableAccountTypeImpl.java	24
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableBudgetCategoryImpl.java	48
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableBudgetCategoryTypeImpl.java	48
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableDocumentImpl.java	85
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableModelObjectImpl.java	45
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableScheduledTransactionImpl.java	45
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableSourceImpl.java	30
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableSplitImpl.java	11
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableTransactionImpl.java	92
src.org.homeunix.thecave.buddi.plugin.api.model.impl.ImmutableTransactionSplitImpl.java	34
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableAccountImpl.java	59
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableAccountTypeImpl.java	28
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableBudgetCategoryImpl.java	78
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableDocumentImpl.java	141
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableModelObjectImpl.java	10
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableScheduledTransactionImpl.java	70
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableSourceImpl.java	40
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableSplitImpl.java	11
src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableTransactionImpl.java	162

src.org.homeunix.thecave.buddi.plugin.api.model.impl.MutableTransactionSplitImpl.java	44
src.org.homeunix.thecave.buddi.plugin.api.model.impl	1146
src.org.homeunix.thecave.buddi.plugin.api.model.MutableAccount.java	42
src.org.homeunix.thecave.buddi.plugin.api.model.MutableAccountType.java	12
src.org.homeunix.thecave.buddi.plugin.api.model.MutableBudgetCategory.java	55
src.org.homeunix.thecave.buddi.plugin.api.model.MutableDocument.java	124
src.org.homeunix.thecave.buddi.plugin.api.model.MutableModelFactory.java	122
src.org.homeunix.thecave.buddi.plugin.api.model.MutableScheduledTransaction.java	75
src.org.homeunix.thecave.buddi.plugin.api.model.MutableSource.java	22
src.org.homeunix.thecave.buddi.plugin.api.model.MutableSplit.java	6
src.org.homeunix.thecave.buddi.plugin.api.model.MutableTransaction.java	105
src.org.homeunix.thecave.buddi.plugin.api.model.MutableTransactionSplit.java	17
src.org.homeunix.thecave.buddi.plugin.api.model	2321
src.org.homeunix.thecave.buddi.plugin.api.PreferenceAccess.java	107
src.org.homeunix.thecave.buddi.plugin.api.util.HtmlHelper.java	201
src.org.homeunix.thecave.buddi.plugin.api.util.HtmlPage.java	109
src.org.homeunix.thecave.buddi.plugin.api.util.TextFormatter.java	278
src.org.homeunix.thecave.buddi.plugin.api.util	588
src.org.homeunix.thecave.buddi.plugin.api	3787
src.org.homeunix.thecave.buddi.plugin.BuddiPluginFactory.java	129
src.org.homeunix.thecave.buddi.plugin.BuddiPluginHelper.java	249
src.org.homeunix.thecave.buddi.plugin.builtin.cellrenderer.ChequeTransactionCellRenderer.java	16
src.org.homeunix.thecave.buddi.plugin.builtin.cellrenderer.ConciseTransactionCellRenderer.java	149
src.org.homeunix.thecave.buddi.plugin.builtin.cellrenderer.DefaultTransactionCellRenderer.java	177
src.org.homeunix.thecave.buddi.plugin.builtin.cellrenderer.SimpleTransactionCellRenderer.java	16
src.org.homeunix.thecave.buddi.plugin.builtin.cellrenderer	358
src.org.homeunix.thecave.buddi.plugin.builtin.exports.ExportBuddiLiveData.java	174
src.org.homeunix.thecave.buddi.plugin.builtin.exports	174
src.org.homeunix.thecave.buddi.plugin.builtin.imports.ImportTestData.java	59
src.org.homeunix.thecave.buddi.plugin.builtin.imports	59
src.org.homeunix.thecave.buddi.plugin.builtin.preference.AdvancedPreferences.java	167
src.org.homeunix.thecave.buddi.plugin.builtin.preference.LocalePreferences.java	255
src.org.homeunix.thecave.buddi.plugin.builtin.preference.NetworkPreferences.java	98
src.org.homeunix.thecave.buddi.plugin.builtin.preference.PluginPreferences.java	244
src.org.homeunix.thecave.buddi.plugin.builtin.preference.ViewPreferences.java	118
src.org.homeunix.thecave.buddi.plugin.builtin.preference	882

src.org.homeunix.thecave.buddi.plugin.builtin.report.AccountBalance.java	85
src.org.homeunix.thecave.buddi.plugin.builtin.report.AverageIncomeExpenseByCategory.java	183
src.org.homeunix.thecave.buddi.plugin.builtin.report.BuddiPieSectionLabelGenerator.java	19
src.org.homeunix.thecave.buddi.plugin.builtin.report.ExpensesPieGraph.java	153
src.org.homeunix.thecave.buddi.plugin.builtin.report.IncomeExpenseReportByCategory.java	165
src.org.homeunix.thecave.buddi.plugin.builtin.report.IncomePieGraph.java	153
src.org.homeunix.thecave.buddi.plugin.builtin.report.NetWorthOverTime.java	101
src.org.homeunix.thecave.buddi.plugin.builtin.report.Transactions.java	71
src.org.homeunix.thecave.buddi.plugin.builtin.report	930
src.org.homeunix.thecave.buddi.plugin.builtin	2403
src.org.homeunix.thecave.buddi.plugin	6568
src.org.homeunix.thecave.buddi.util.BrowserLauncher.java	29
src.org.homeunix.thecave.buddi.util.BuddiCryptoFactory.java	29
src.org.homeunix.thecave.buddi.util.ColorUtil.java	9
src.org.homeunix.thecave.buddi.util.FileFunctions.java	135
src.org.homeunix.thecave.buddi.util.Formatter.java	76
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