

ISKOins

Data Design Document

Submitted to:

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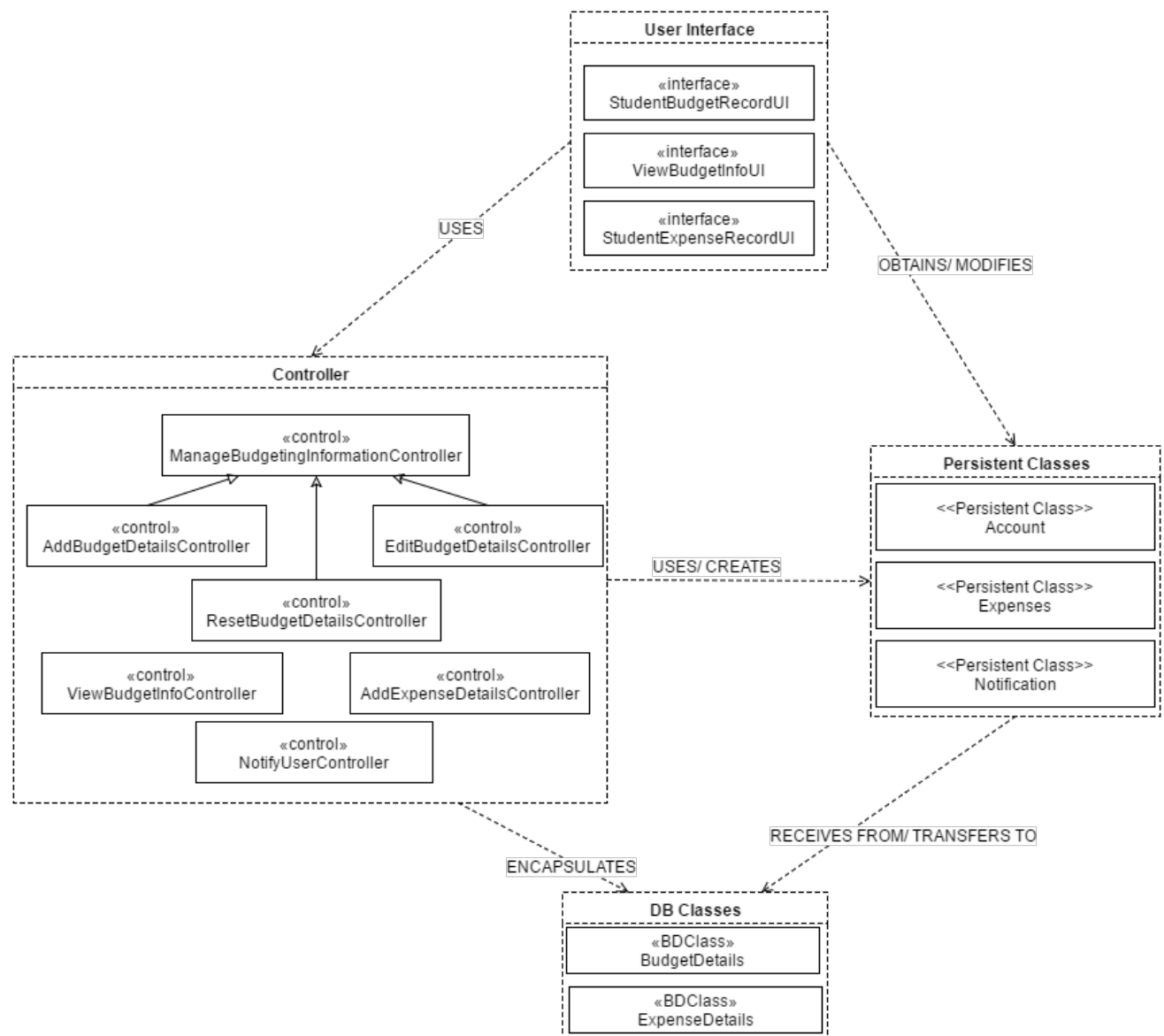
In partial fulfillment of Academic Requirements
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Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Modification
11/17/16	Eunice Angel D. Cruz	1.0	Initial Document; DAO classes
11/17/16	Deanne Faye C. Caingat	1.0	Data Design Diagram; Account Detail Data Source
11/17/16	Lois Alexis M. Velasco	1.0	TransferObject classes; Details Data Source

Data Design:



Data Access Object (DAO) Classes:

Class Name	Description
MaintainBudgetingInformationController	Grouping option for add, edit and reset information.
AddBudgetDetailsController	Creates a persistent object Account and supplies it with budgeting details obtained from the StudentBudgetRecordUI, and then passes it to BudgetDetails to create a new budgeting account.
EditBudgetDetailsController	Creates a persistent object Account and supplies it with budgeting details obtained from the StudentBudgetRecordUI, and then passes it to BudgetDetails to update the current budgeting information.
ResetBudgetDetailsController	Forwards the request to reset current budgeting information to BudgetDetails to reset the prevailing budgeting information.
ViewBudgetInfoController	Creates a temporary class Account to be filled with the current budgeting information, and then passes it to BudgetDetails to supply the necessary information.
AddExpenseDetailsController	Creates a persistent object Expenses and supplies it with expense details obtained from the StudentExpenseRecordUI, and then passes it to ExpenseDetails to add a new expense detail.
NotifyUserController	Creates a persistent object Notification and gets data from BudgetDetails and ExpenseDetails. Using data from the said classes, each category is checked as to whether its expenses has reached a certain percentage of its expenditure limit. If yes, it prepares a notification message to the user.

TransferObject Classes:

Class Name	Description
Account	Account is in charge of adding account and budget details, editing budget details and resetting budget details. Adding budget details needs complete information for the name, initial amount and duration.
Expenses	Expenses is in charge of updating the data under expenses. Expenses will keep a list of the current expenses of the users and also a cumulative amount of expenses that the user had. Once reset budget details is chosen, the data in expenses will also be deleted.
Notification	Notification is in charge of preparing a message to the user about its expenses reaching a certain percentage of the allotted budget in a category by checking whether a category's current expenses has reached the certain percentage of its budget.

List of Data Source:

Data Source Name: AccountDetails.txt

Description: Account details follows the following format:

Name:

Initial Amount:

Budget Duration:

(Default Categories' Expenditure Limit)

New_Categories

(New Categories' Expenditure Limit)

Sample Source File:

```
150.00
50.00
00.00
65.00
0.00
75.00
0.00
0.00
New_Categories
NULL
50.00
00.00
00.00
15.00
0.00
75.00
0.00
New_Categories
NULL 0.00
```

Data Source Name: ExpenseDetails.txt

Description: Expense details follows the following format:

(Default Categories' Cumulative Expenses)

New_Categories

(Cumulative Expenses)

(Default Categories' Current Expenses)

New_Categories

(Current Expenses)

Sample Tables from the Database:

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Account:

Name	Initial Amount	Budget Duration
VARCHAR(100)	SMALLFLOAT(9999)	VARCHAR(100)
Sample Name	1 000.00	Monthly