ISKOinsData Design Document

Submitted to:

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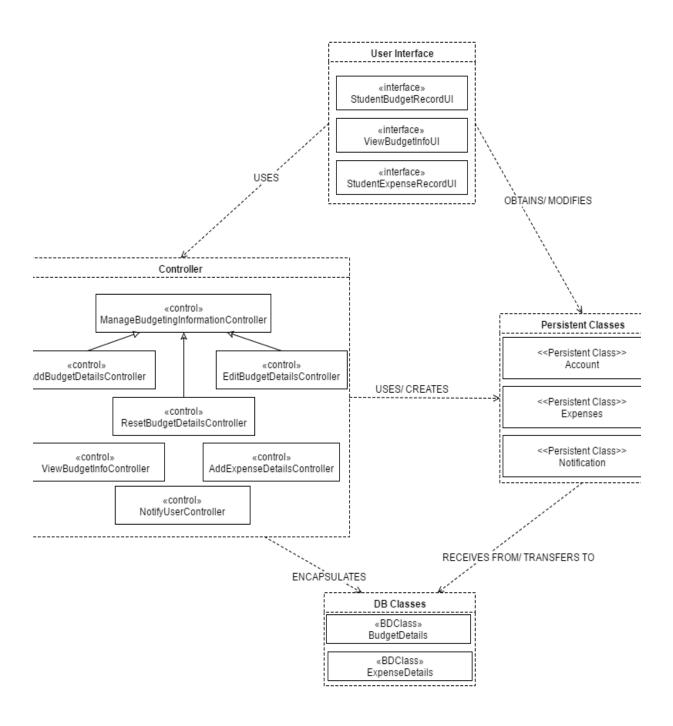
In partial fulfillment of Academic Requirements for the course CS 191 Software Engineering I of the 1st Semester, AY 2016-2017

Revision Control

History Revision:

RevisionDate	Person Responsible	Version Number	Modification
11/17/16	Eunice Angel D. Cruz	1.0	Initial Document; DAO classes
11/17/18	Deanne Faye C. Caingat	1.0	Data Design diagram; Account Details Data Source
11/17/16	Lois Alexis M. Velasco	1.0	TransferObject class; Expense 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 exoense 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	Expense Details is in charge of updating the data under expenses. Expenses will keep a list of the current (today) 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.

```
List of Data Source:
Data Source Name: AccountDetails.txt
Description: Account details follows the following format:
             Name:
             Initial Amount:
             Budget Duration:
             (Default Catergories' Expenditure Limit)
             New_Categories
             (New Categories' Expenditure Limit)
Sample Source File:
      Kim Myungsoo
      1000.00
      Monthly
      450.00
      150.00
      110.00
      115.00
      0.00
      175.00
      0.00
      0.00
      New_Categories
      NULL
Data Source Name: ExpenseDetails.txt
Description: Expense details follows the following format:
             (Default Catergories' Cumulative Expenses)
             New_Categories
             (Cumulative Expenses)
             (Default Catergories' Current Expenses)
             New_Categories
```

Sample Source File:

150.00

(Current Expenses)

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

Sample Tables from the Database:

Account:

Name:	Initial Amount	Budget Duration
VARCHAR(100)	SMALLFLOAT(9999)	VARCHAR(100)
Sample Name	1000.00	Monthly