**ISM 6259 Final Project**

Project: Finance Management Software

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| **Question** | **Response** |
| Implemented Inheritance? If yes, for what? | **Yes.**  Class Names : cardNew.java, DebitCard.java, CreditCard.java  The card can be of two types 1. Debit 2.Credit. The DebitCard.java and CreditCard.java is inherited from cardNew.java. The credit.java has an attribute Limit which Debit.java does not have. |
| Implemented Interfaces? If yes, for what? | **Yes.**  Class Names: Group.java. Can be viewed in AddGroupGUI.java  Implemented Comparator to sort Group Member Email  Implemented Comparable to sort Group Names |
| Does the application read data from Text File?  If yes, what data and when does the application read this data? | **Yes.**  Class Names: Can be viewedLoginGUI.java, AddCardGUI.java,RecordGUI.java, FileIO.java  When the user logs in with the registered Email and password, the file is read to verify Email and password to log in automatically.  Also, when the user logs in, the respective user’s Card details, Transaction Details are also read from the files. |
| Does the application write data to Text File?  If yes, what data and when does the application write this data? | **Yes.**  Class Names: LoginGUI.java, cardNew.java., FileIO.java, WriteFileIO.java  When the user creates and account, the user’s details are written into the file, as well as when a user updates their settings.  When the user creates/updates/deletes a card and its details, the card details are written/updated in the file.  When the user creates/updates/deletes a transaction and its details, the transaction details are written/updated in the file.  The report is written to a text file. |
| Does the application read data from Object File?  If yes, what data and when does the application read this data? | **Yes.**  Class Names: ViewGroupGUI.java, FileIO.java, WriteFileIO.java  Action: When the user clicks on “Read from Object file” on the ViewGroupGUI.java  The Group names and the Groups’ members’ Emails are read from the Object I/O file. The Object I/O file is stored in the folder with file name as Group + user Email (the Email ID of whichever user is logged in). Example : If the logged in User Email ID is “[abc@ufl.edu](mailto:abc@ufl.edu)”. The Object I/O file’s name will be “Groupsabc@ufl.edu.dat”. |
| Does the application write data to Object File?  If yes, what data and when does the application reads this data? | **Yes.**  Class Names: ViewGroupGUI.java  Action: When the user creates a group and then clicks on “Write into Object file” on the ViewGroupGUI.java    The Group names and the Groups’ members’ Emails are written into the Object I/O file. The Object I/O file is stored in the folder with file name as Group + user Email(the Email ID of whichever user is logged in). Example : If the logged in User Email ID is “[abc@ufl.edu](mailto:abc@ufl.edu)”. The Object I/O file’s name will be “[Groupsabc@ufl.edu](mailto:Groupsabc@ufl.edu).dat”  Note: For the purposes of this project, the user has to click on “Write into Object file” whenever the user has modified a group name or deleted a member from the group. This step will replace the .dat file with the updated version. When the system is started, other files are automatically used. |
| Used any other special feature/class/package that you would like me to know about? If yes, for what? | **Yes.**  Class Name : Pie Chart.java. Can be viewed in HomeGUI.java, DateManagement.java can be viewed in AddTransactionGUI.java, AddCardGUI.java, and ReportGUI.java.  IndexOutOfBoundException.java is a custom class used for exception handling.  Action: When the user clicks on “Show Pie Chart” in HomeGUI.java  When the user clicks on the jXDatePicker icon (next to date fields).  We have created a Pie Chart to show the expense by category (like Shopping, Health, Education etc.).  We have also handled NullPointerExceptions and NumberFormatExceptions in the AddTransactionGUI.java. We have handled IndexOutOfBoundExceptions in the ModifyGroupGUI.java and AddCardGUI.java.  We have used HashMap to ensure that the monthly reports match with the transaction start dates. |
| Did your group implement all the features that were proposed in the Requirements/Analysis phase  Issues faced, if any? | **No.**  Originally, we wanted to include survey requests, as well as allowing the user to turn on/off notifications and surveys, respectively. However, we realized that notifications should simply be forced on the HomeGUI screen, and the surveys were not truly needed. We also faced issues with the number of GUI screens we implemented. This caused confusion, especially for the Groups class. In the real world, we now know to minimize the number of GUIs involved and might approach things differently in the design phase. |
| On a scale of 1-5 (5 being excellent) how would you rate the quality of the demo video that your group submitted.  What recording s/w did you use?  Issues faced, if any? | We used Zoom to record our amazing, 5-star videos. We faced issues while exporting the recording, since Zoom also transcribes its recordings. |
| How did your group divide the work among members?  Write the name of each group member and specify clearly what portion of the project has been coded by that member. | We would routinely meet as a group to discuss the diagrams, prototypes, and make modifications. When reaching the development phase, we each took on a major area for coding. Emily Pfeffer tackled the Users and Settings, Shree Vidhya Sampath focused on Groups, and Yifei Sun worked on the Transactions and Cards. We then consolidated our code to review and clean altogether. From that point on, we worked as a group on overlapping areas to check functionality and fix bugs.  CardNew – Yifei Sun  CreditCard – Yifei Sun / Emily Pfeffer  DateManagement – Yifei Sun  DebitCard – Emily Pfeffer  FileIO – Yifei Sun  FinanceSystem – Emily Pfeffer / Yifei Sun / Shree Vidhya Sampath  Group – Shree Vidhya Sampath  GroupMember – Shree Vidhya Sampath  IndexOutOfBoundException – Shree Vidhya Sampath  Transaction – Yifei Sun / Emily Pfeffer  User – Emily Pfeffer  WriteIntoFile – Yifei Sun |