Gina Cody School of Engineering and Computer Science
COEN 6311 – Software Engineering
Object Oriented programming (OOP) mini-programming project

Tuesday Section NN: (*Family Bank Wallet*)

You will design a bank wallet for a family where all the family members (10 members). The wallet can be linked by one bank or two bank accounts under the following conditions:

1) Dad and Mam have full access to pay using this wallet and withdraw money.
2) Children can pay using a wallet for a max of $50 per day.
3) Dad and Mam can deposit money by transferring money from their bank account.
4) Dad and Mam can view all transactions for all family members, listing items of shop names and amount of money in the time stamp.
5) Dad can block any family member from using the wallet.
6) No one can pay if the wallet is zero balance, kids can request a money deposit (message Dad and Mam) if the balance is not sufficient.
7) Notification for Dad and Mam if the balance is less than $100.
8) Children must ask permission to use the wallet two times a day regardless of the amount of money.
9) Kid can request overpay from Mam only if he needs to pay more than 50$, Mam can accept or reject or transfer the request to Dad.

You should:

1. Rewrite the requirements and system description into user stories.
2. Show business model actions flow, as a diagram.
3. Create the needed UML diagrams for this application showing all attributes and methods needed to complete all requirements.
4. Do a plan of your work with activities and time you estimate (guess) it will take you to complete.
5. Implement the application in the language of your preference. The application must run on a windows pc. The user interface can be via the console menu.
6. As you work on your project, record the time each activity takes you (if you must add activities to the plan, estimate a time also).
7. Present a report showing your diagram and its relation to your code structure and code.
8. Present a report of the plan, estimated time, and actual time to complete each activity.