



A Project Report
On
FaiPai – A Family Wallet
by

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A technical report
submitted to Prof Tariq Daradkeh
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Introduction

Project Description

Now a days, parents want to keep a check on the transactions and child requires a payment method for daily needs. While to eliminate this problem. A digital wallet can be seen a great advantage, as many children can use it at a same time.

Here in this project, I have implemented a wallet application for a family where most controls are in the hands of mom and dad, and children can withdraw money from wallet whenever they need to pay.

- ☐ Adding money to the wallet from main bank account, also withdrawing money from the wallet.
- ☐ Payment to vendor or Bills.
- ☐ Children could pay using the wallet to vendors and bills.
- ☐ Restrictions for payment by children above 50 Dollars(Permission is needed from parents in this case)
- ☐ Parents can block and unblock the users.
- ☐ All the transactions history can be viewed.
- ☐ Children can request parents to deposit money into the wallet.
- ☐ Permission for the children to pay money is to be taken twice a day.

User Story	Priority	Difficulty	Expected Time duration of completion
As a parent, Richard wanted his family to pay using a wallet to limit the amount for the family and keep a record of the transactions where the amount had been spent and how much got spent.	High	High	19 Hour's
As a parent, Richard only wants wife should be able to add and withdraw money from the Bank to wallet and vice versa so that they could keep money in wallet for family expenses.	High	Moderate	3 Hour's
As a parent, Richard wants his children should ask his wife maya for the permission at least twice a day to spend money from the wallet so that it can be kept restricted	Moderate	High	4 Hour's
As a parent, Richard wants children to ask permission if they want to pay more than fifty dollars so that he can restrict them from overspending.	Moderate	High	2 Hour's
As a parent, Richard wants to be able to restrict by blocking children account from making payment so that he can control the expenditure for that person.	Moderate	High	2 Hour's
As a child, they want to pay more money using the application so that will be easy for us to pay anywhere	Moderate	Moderate	2 Hour's
As a child, they want to request money if the balance is low in the wallet so that we can pay whenever its needed	Moderate	Easy	2 Hour's
As a parent, Richard wants to be notified when the Balance is low so that he can add some money from bank when the balance is low.	Moderate	Easy	2 Hour's
As a parent, Richard also wants to get all the transaction details of family, so that he can monitor the family expenses.	Moderate	Moderate	2 Hour's

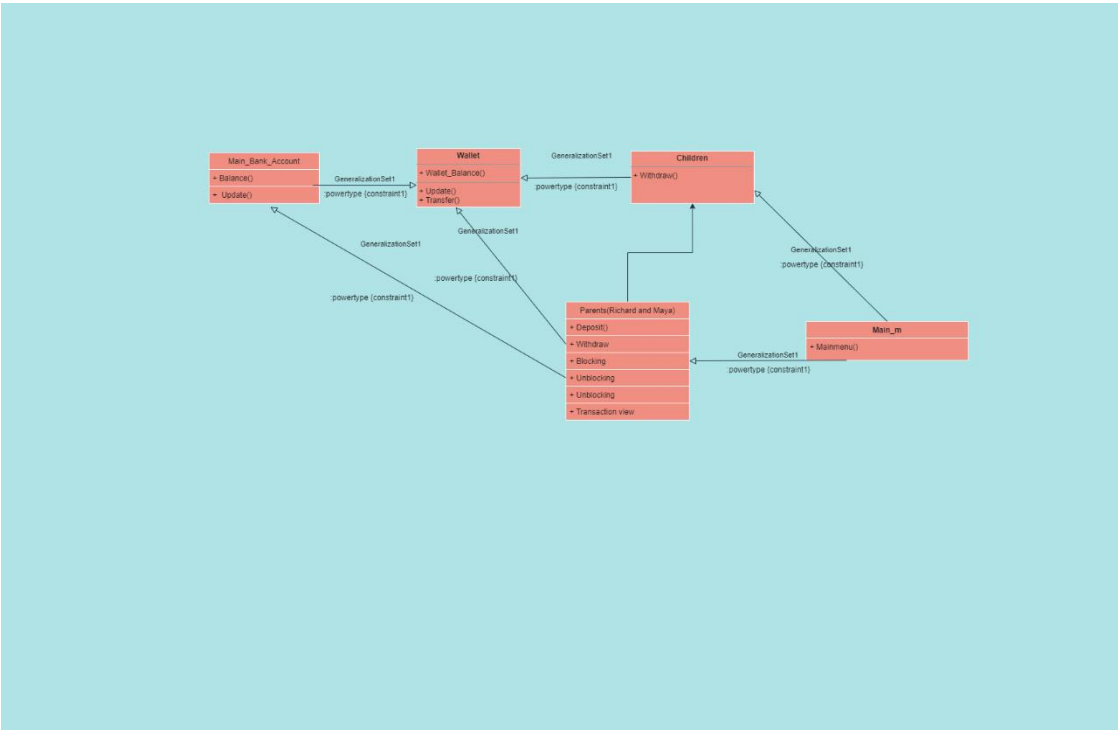
Time Sheet

Time Required : 32 Hour's

Time expected : 24 Hour's

Date	Task Type	Expected	Start Time	End Time	Time Taken to complete
28/09/2022	Deciding the programming language to be used and requirements design from the user stories	2 Hour's	1.00 am	4:00 am	3 Hour's
30/09/2022	Programming for the main menu and database development	2 hour	11.00 am	2.30 pm	3.30 Hour's
1/10/2022	Programming for the Deposit function.	1 hour	12.00 pm	1.30 pm	1.30 Hour's
2/10/2022	Development of child withdraw function	2 hour	11.00 am	1.00 pm	2 hour
3/10/2022	Logic design and implementation for using the flag and database interconnection	3.30 Hour's	12.00 pm	5.00 pm	5 Hour's
6/10/2022	Blocking and unblocking function implementation	2 Hour's	2.00 pm	5.00 pm	3 hour
8/10/2022	Implementation of transaction view function with interconnection with transaction table	1.30 Hour's	9.00 pm	11.00pm	2 hour
10/10/2022	Full implementation of each class and final implementation of all the functions	4 Hour's	4.00 pm	7.00 pm	3 Hour's
11/10/2022	Testing and validation of each function operation	1 Hour	11.00 pm	12.30 am	1.30 Hour's
13/10/2022	Errors Debugging and variable name conventions	2 Hour's	12.00 pm	1.30pm	1.30 Hour's
16/10/2022	Report preparation	3 Hour's	6.00 pm	9.00 pm	3 Hour's
16/10/2022	Final Product deployment	24 Hour's			32 Hour's

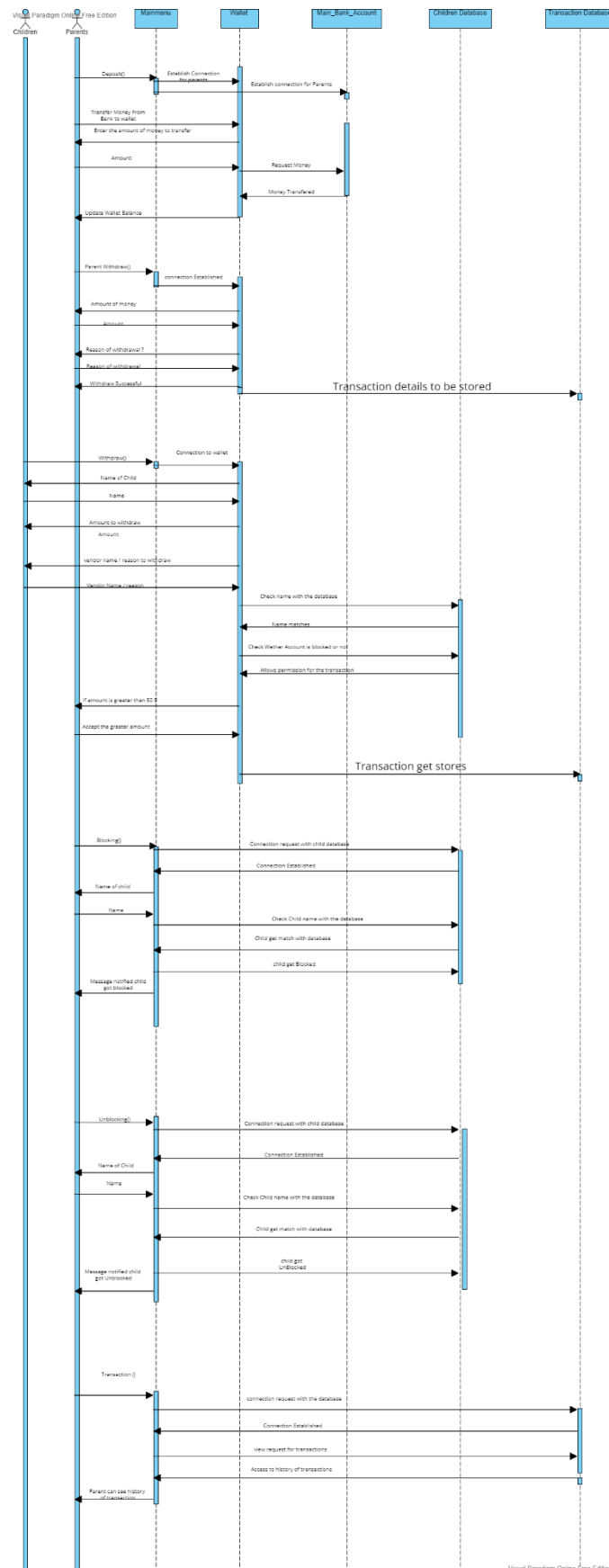
Class Diagram



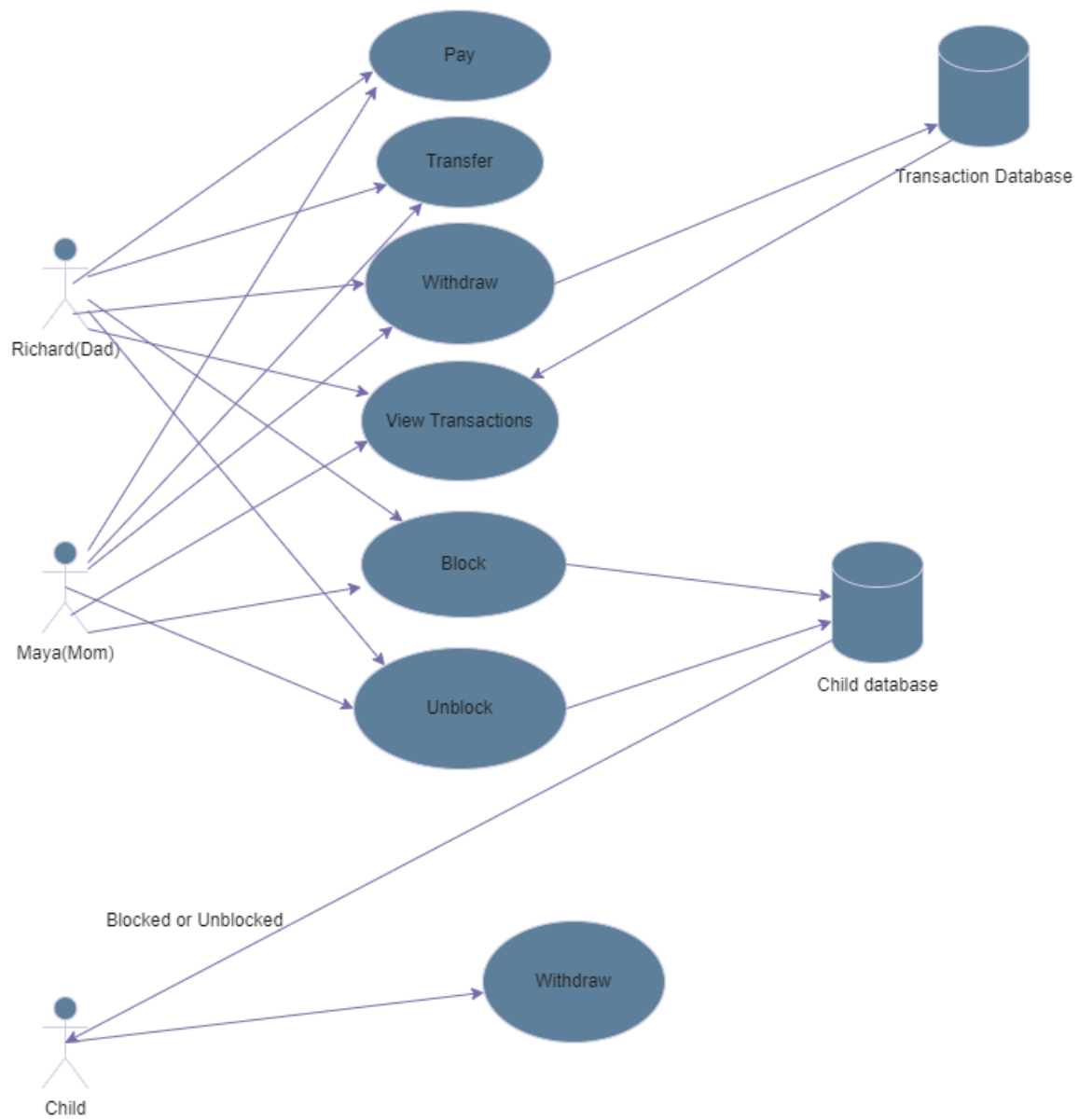
☐ Business Flow diagram:



Sequence Diagram



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Conclusion

A Family Wallet application wallet has been developed which can be run on a terminal and contains functions reflected by the user stories. In future this can be deployed as a mobile application with a graphic user interface and can be made scalable through cloud.