

Project Deliverable 04

In partial fulfillment of the requirement for the course of

Software Design and Analysis

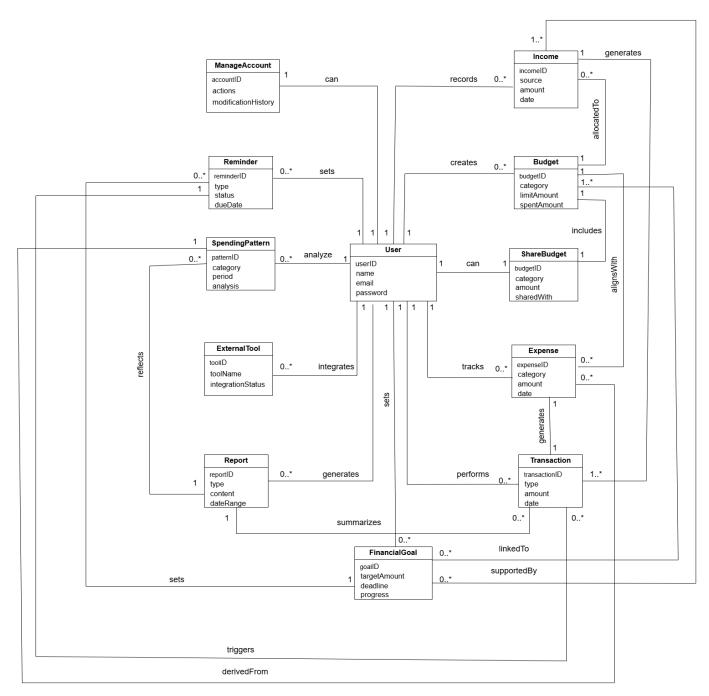
By

Raima Tariq | 22i-1145 Rimsha Azam | 22i-1129 Umama Bajwa | 22i-1133

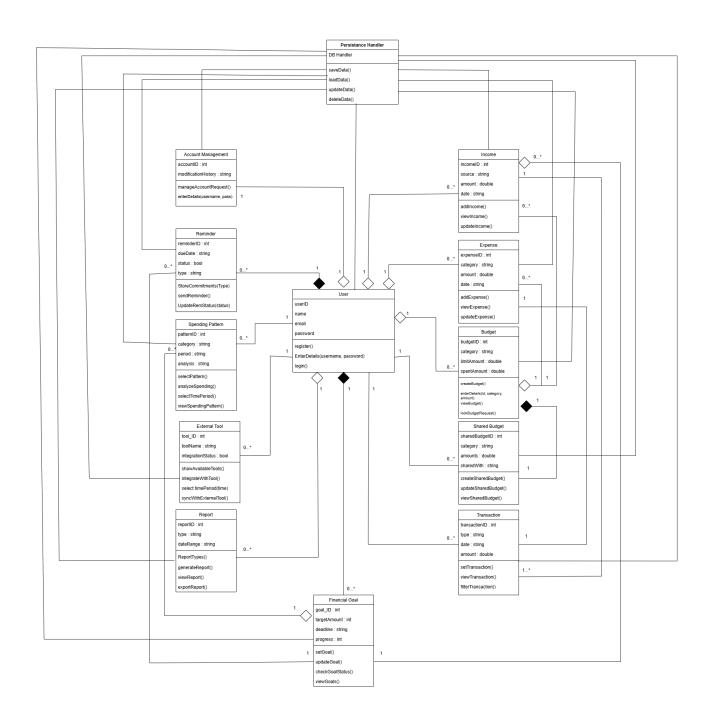
BSCS-C

Project: FinPlan - a budget management system

DOMAIN MODEL



UML CLASS DIAGRAM

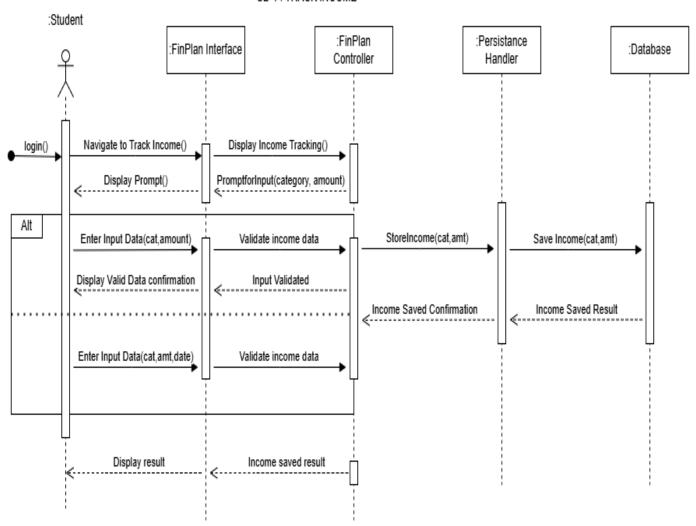


Track Income (RIMSHA AZAM)

System Sequence Diagram:

USE CASE 1: TRACK INCOME :Student :FinPlan System NavigateToTrackIncome() Display Income Fields Alt Input Income Details Input is Data Validity Confirmation Validated Data added Entry saved in database to DB Invalid Input Input is Validated Enter valid input details Data added Valid Input to DB Entry saved in database

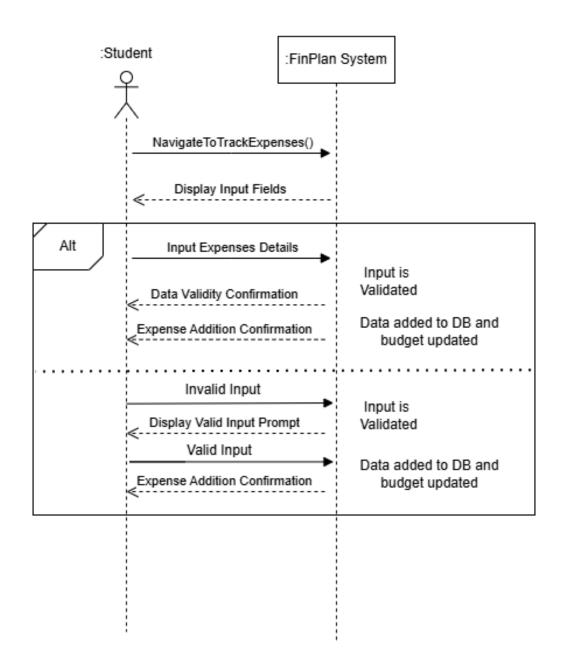
SD 1: TRACK INCOME

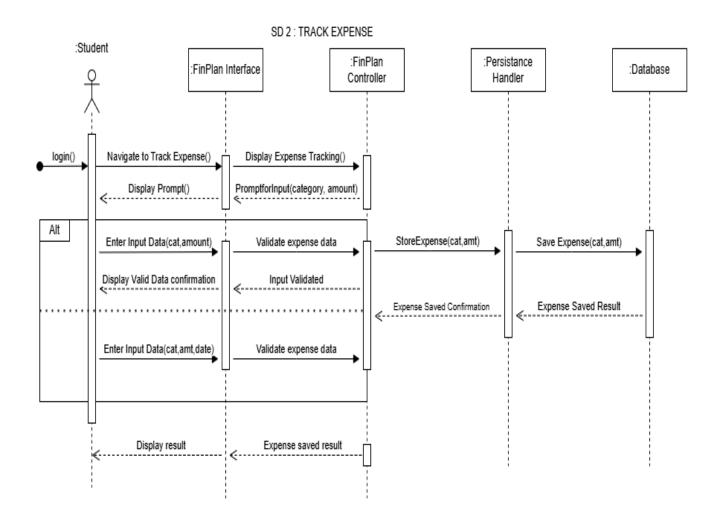


Track Expense (RIMSHA AZAM)

System Sequence Diagram:

USE CASE 2: TRACK EXPENSES

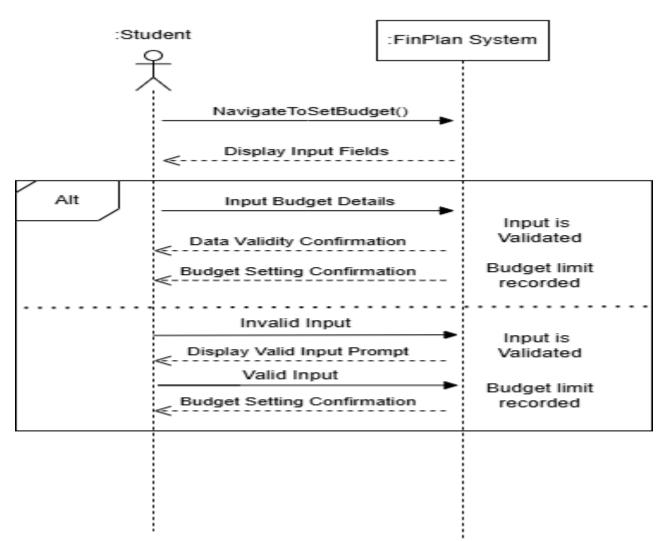




Set Budget (RIMSHA AZAM)

System Sequence Diagram:

USE CASE 3 : SET BUDGET



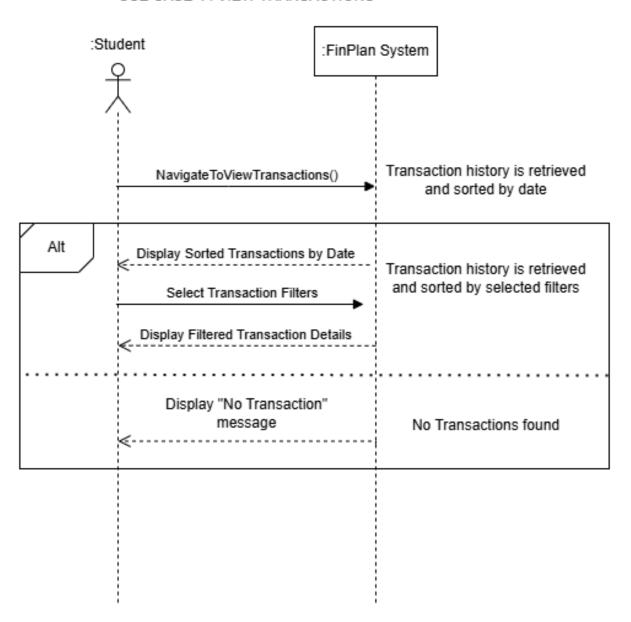
:Student :FinPlan :Persistance :FinPlan Interface :Database Controller Handler Navigate to Set Budget() login() Display Set Budget() Display Prompt() PromptforInput(category, amount) Alt SetBudget(cat,amt) Validate budget data Save Budget(cat,amt) Enter Input Data(cat,amount) Input Validated Display Valid Data confirmation Budget Saved Confirmation **Budget Saved Result** Enter Input Data(cat,amt,date) Validate budget data Display result Budget saved result

SD 3: SET BUDGET

View Transaction (RIMSHA AZAM)

System Sequence Diagram:

USE CASE 4: VIEW TRANSACTIONS



Display result

:Student :FinPlan :Persistance :FinPlan Interface :Database Controller Handler login() Navigate to Financial Goals() RequestTransactionHistory() Request Transaction history Query transaction records Alt Display Transaction List Return Transaction Data Send Transaction Details Transaction records retrieved Display "No Data Available" No Transactions Found

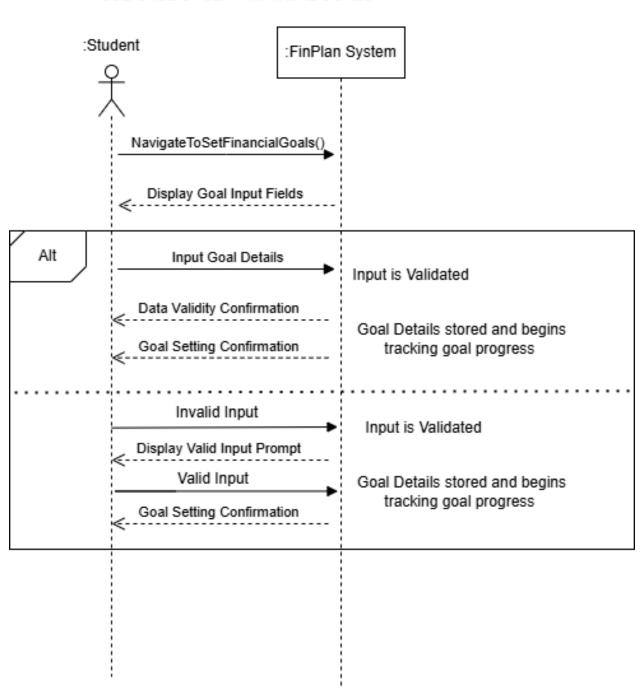
Transaction saved result

SD 4: VIEW TRANSACTIONS

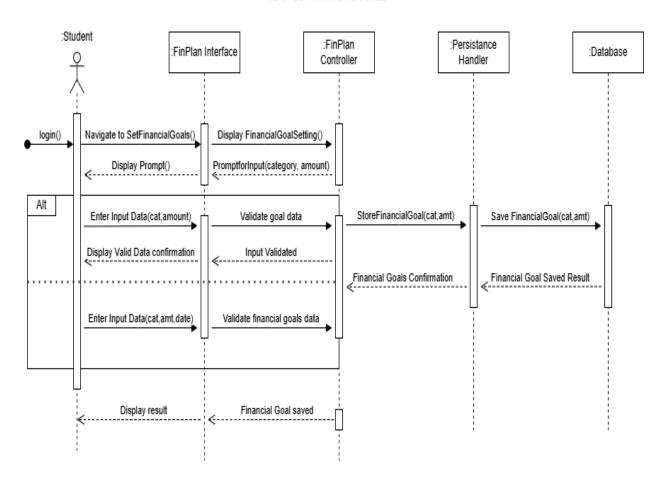
Set Financial Goals (RIMSHA AZAM)

System Sequence Diagram:

USE CASE 5 : SET FINANCIAL GOALS

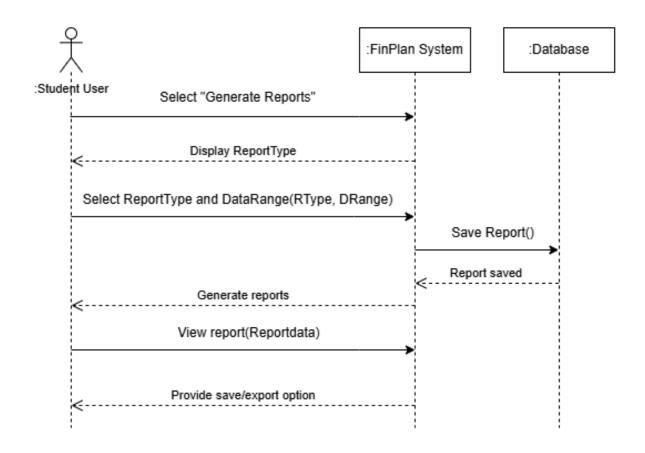


SD 5: SET FINANCIAL GOALS



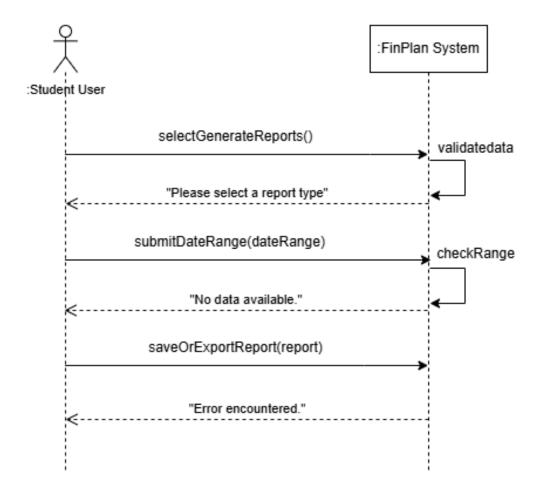
Generate Reports (RAIMA TARIQ)

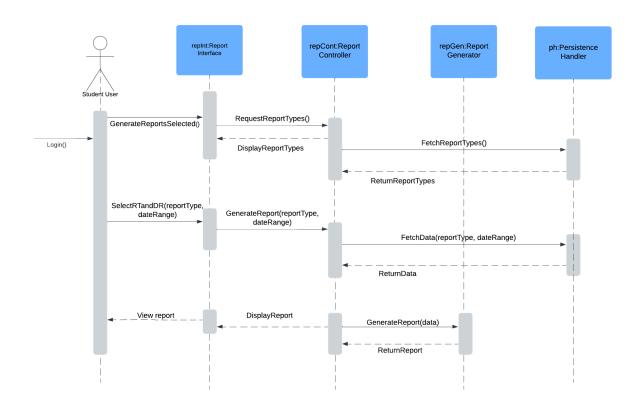
System Sequence Diagram:



System Sequence Diagram:

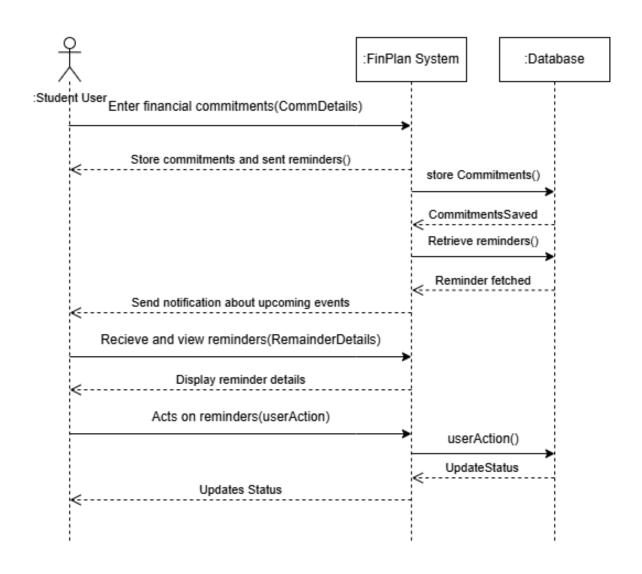
Alternate scenario

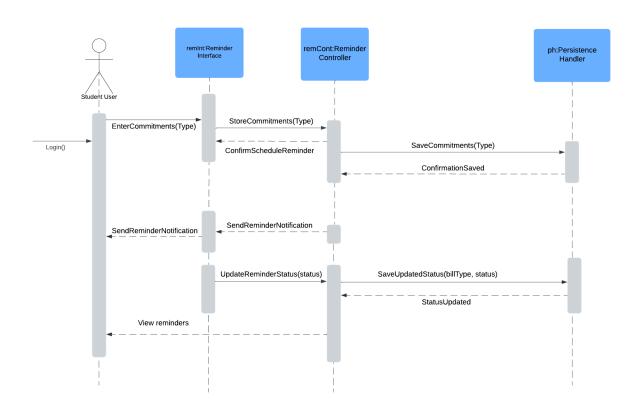




Receive Reminders (RAIMA TARIQ)

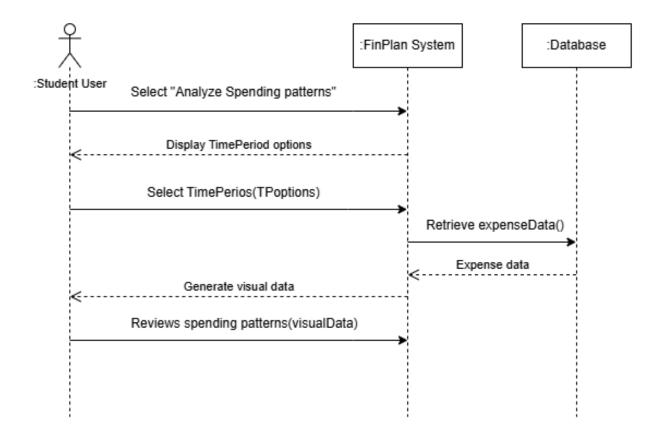
System Sequence Diagram:





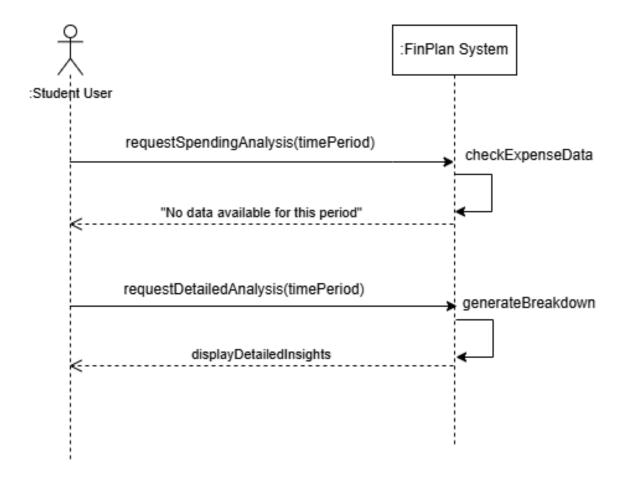
Analyze Spending Patterns (RAIMA TARIQ)

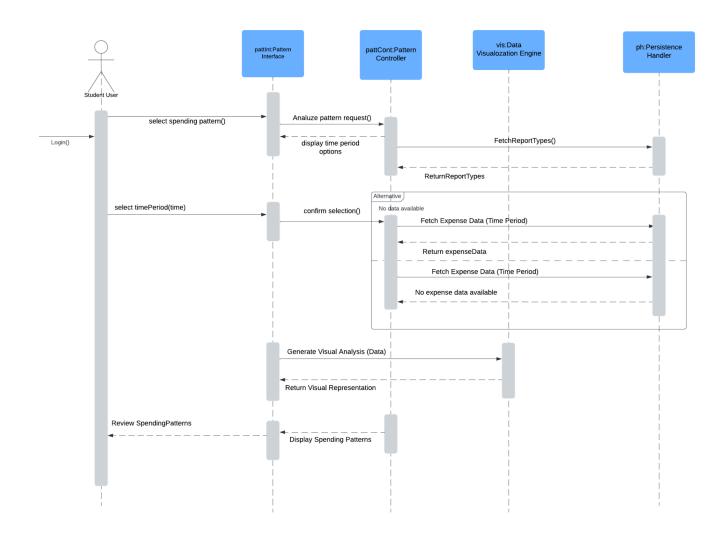
System Sequence Diagram:



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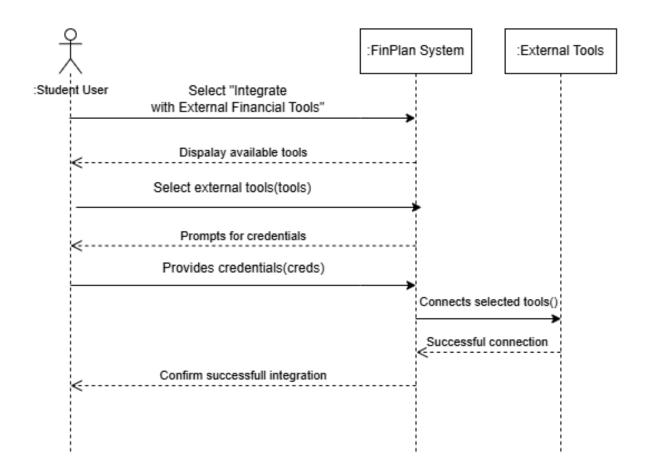
Alternate scenario





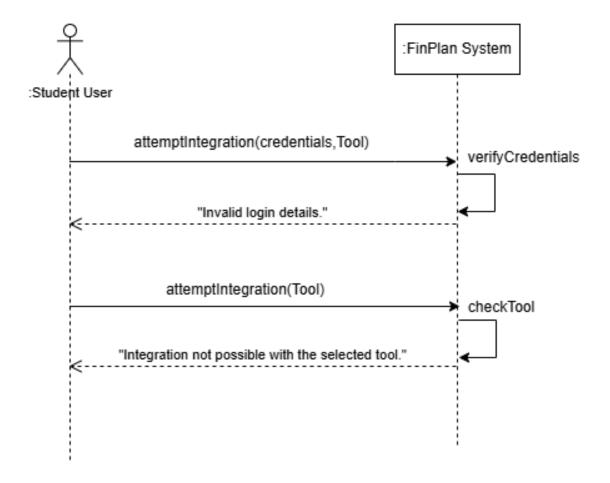
Integrate with Other Financial Tools (RAIMA TARIQ)

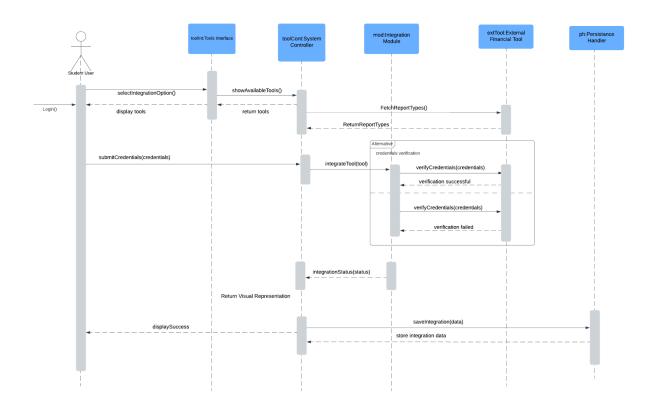
System Sequence Diagram:



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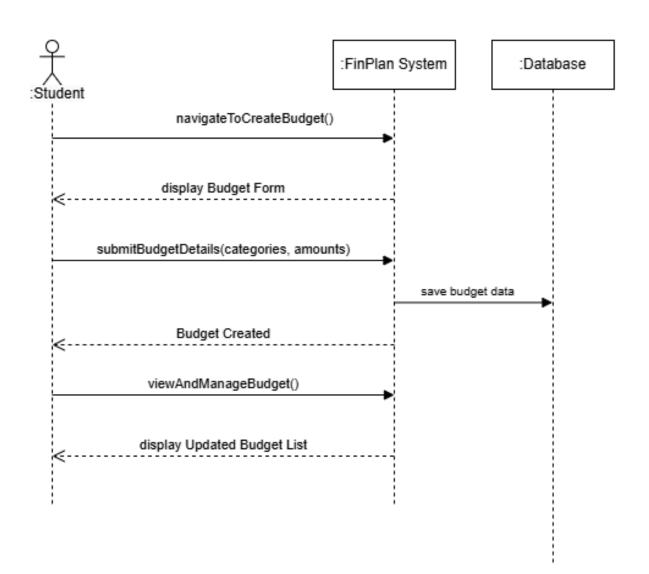
Alternate scenario





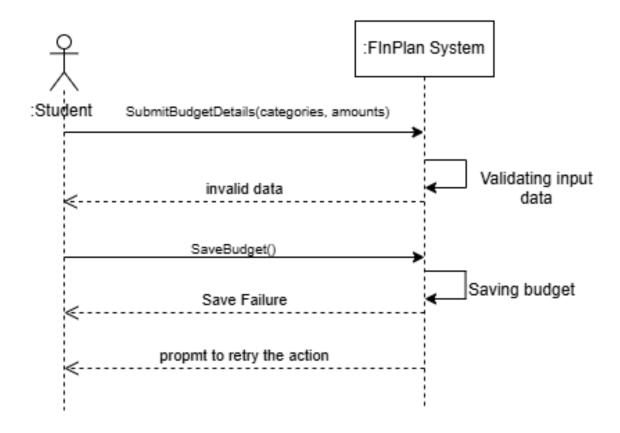
Create Budgets for Multiple Users (UMAMA BAJWA)

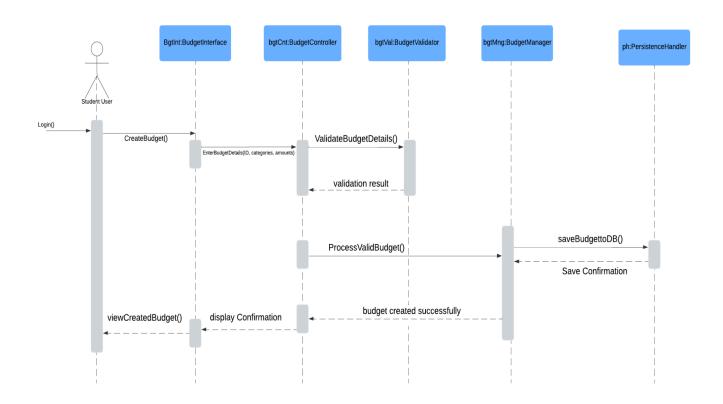
System Sequence Diagram:



System Sequence Diagram:

Alternate scenario

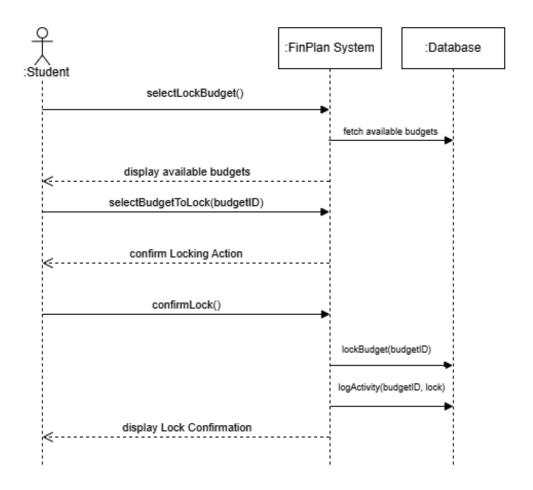




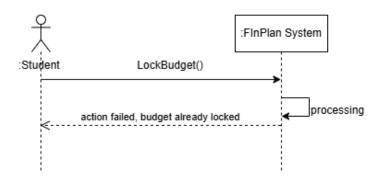
Lock the Budget (UMAMA BAJWA)

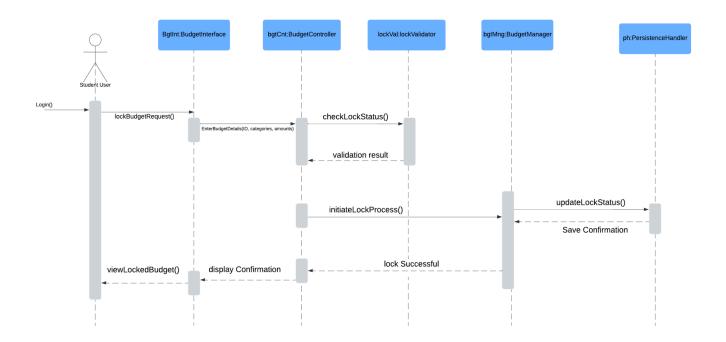
System Sequence Diagram:

Main scenario



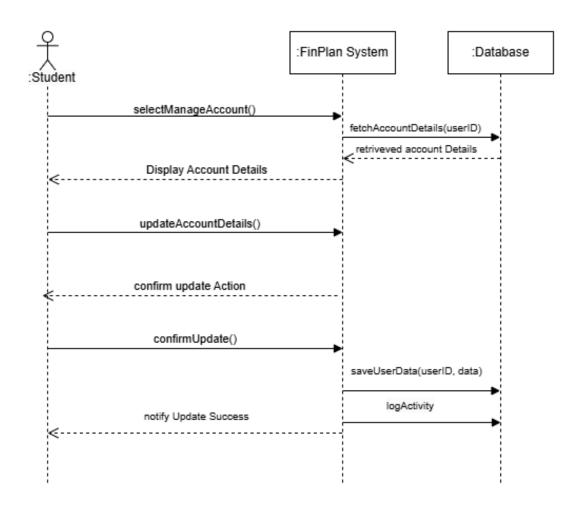
Alternate scenario

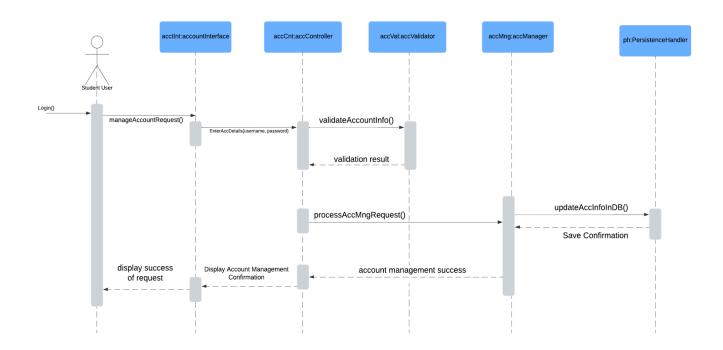




Manage Accounts (UMAMA BAJWA)

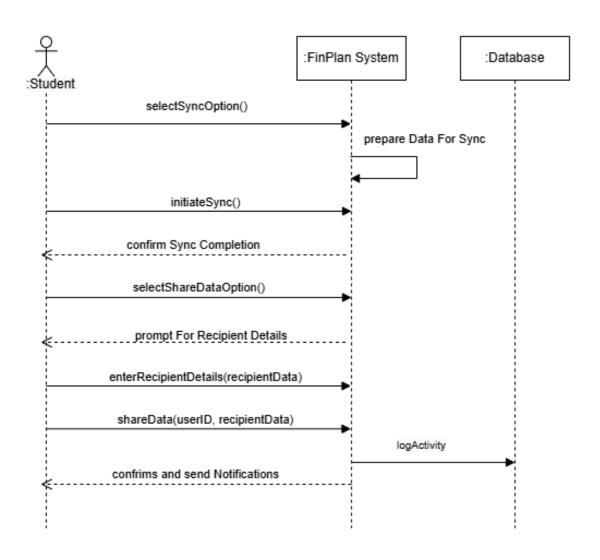
System Sequence Diagram:



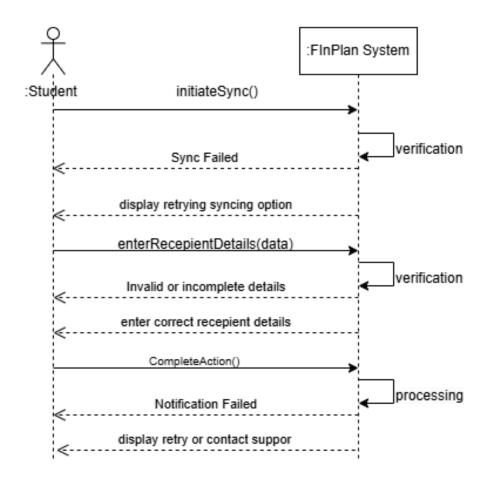


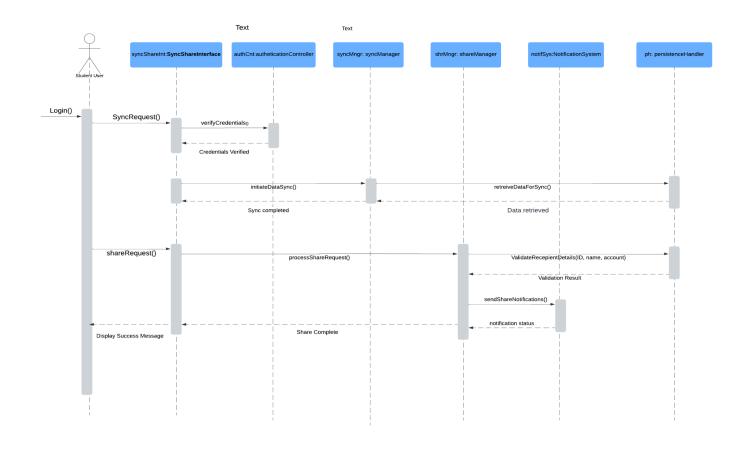
Sync and Share data (UMAMA BAJWA)

System Sequence Diagram:



System Sequence Diagram: Alternate scenario





Register User (UMAMA BAJWA)

System Sequence Diagram:

