MONEY MANAGER

Cody Riniker
Advisor: Nathan Bean

Overview

- Money Manager is budgeting application that helps users track their spending habits.
- It is written in C# using Visual Studio Forms.

- Main Features
  - Allow users to add/remove transactions and goals.
  - View gain loss reports.
  - Search for transactions.
  - Schedule transactions for a future date.

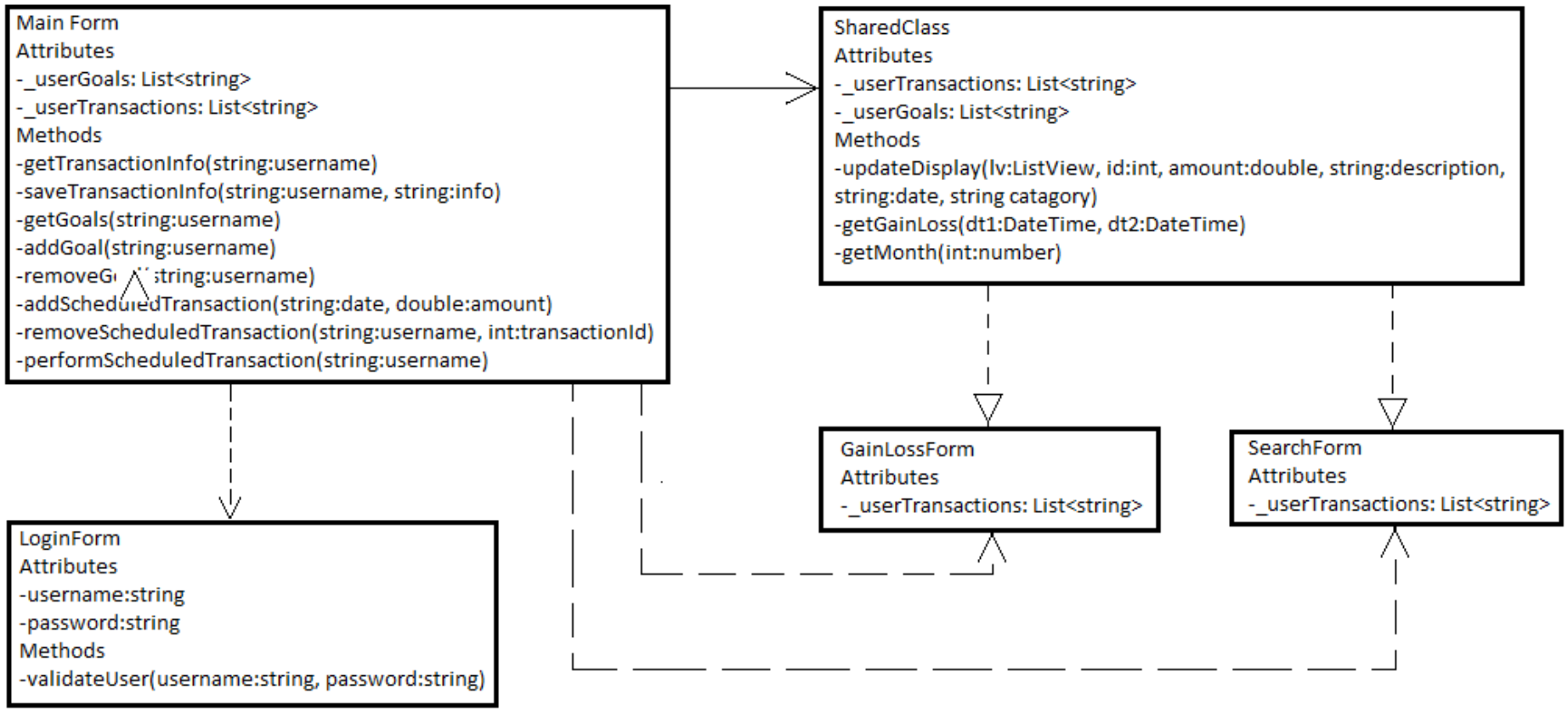
Changes

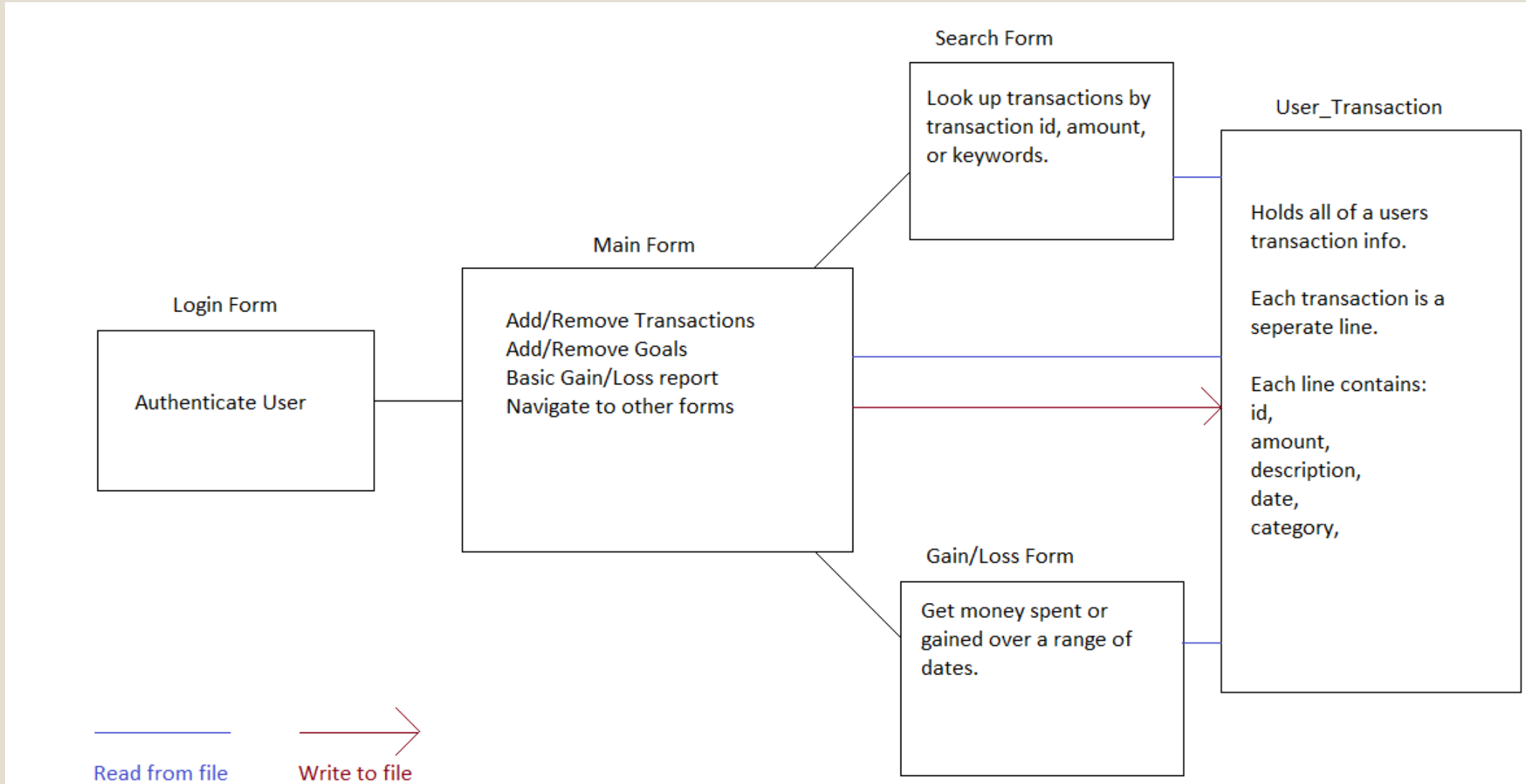
- Switched focus to just a desktop app and putting the ASP.Net web application on hold.
  - ASP.Net web app is still possible but is no longer a main goal.
  - This allows me to focus on more features for just a single app.

- New Possible Features
  - Allow user to print out paper copy of info
  - Receipt checking

Progress

- Views have been created but are not finalized.
- Adding/Saving transactions.
- Gain/Loss reporting
- Basic Login features


Main Form
Attributes
-_userGoals: List<string>
-_userTransactions: List<string>
Methods
-getTransactionInfo(string:username)
-saveTransactionInfo(string:username, string:info)
-getGoals(string:username)
-addGoal(string:username)
-removeG :string:username)
-addScheduledTransaction(string:date, double:amount)
-removeScheduledTransaction(string:username, int:transactionId)
-performScheduledTransaction(string:username)
SharedClass
Attributes
-_userTransactions: List<string>
-_userGoals: List<string>
Methods
-updateDisplay(lv:ListView, id:int, amount:double, string:description, string:date, string catagory)
-getGainLoss(dt1:DateTime, dt2:DateTime)
-getMonth(int:number)
LoginForm
Attributes
-username:string
-password:string
Methods
-validateUser(username:string, password:string)
GainLossForm
Attributes
-_userTransactions: List<string>
SearchForm
Attributes
-_userTransactions: List<string>


Search Form
Look up transactions by transaction id, amount, or keywords.
User_Transaction
Holds all of a users transaction info.
Each transaction is a seperate line.
Each line contains:
id,
amount,
description,
date,
category,
Main Form
Add/Remove Transactions
Add/Remove Goals
Basic Gain/Loss report
Navigate to other forms
Login Form
Authenticate User
Gain/Loss Form
Get money spent or gained over a range of dates.
Read from file
Write to file

Challenges so far

- How to store data
  - Database vs local storage
- Limited space on forms
  - Making everything fit in an organized way.
- Handling scheduled transactions
  - How to take out the money and alert the user.

Questions