**Senior Project Proposal**

**Team Name**

* Team Financially Illiterate™

**Team Member's Name**

* Ryan Nixon
* Ethan Shilo-Draper
* Kasey Bourdier

**Business Opportunity/Problem**

* Dealing with money is complicated. It is advantageous to have everything in one convenient place to track expenditures and savings easily. Our application will make it easier for individuals and businesses to keep track of their finances, whether it be monitoring expenses, savings, or bills.

**Describe who your users will be.**

* Our users will be individuals or businesses who need software to assist in their financial needs.

**High Level User Requirements**

| **Account** |
| --- |
| Users will be able to register a new account |
| Users will be able to use account to login to website |
| Users will be able to recover account via email |
| Users will be able to edit account information |
| **Income** |
| Users will be able to set their income (weekly/ bi-weekly/Monthly). |
| **Expenditures** |
| Users will be able to enter new purchases and track purchase history |
| Users will be able to upload receipts for purchases |
| Users will be able to set their monthly payments |
| Users will be able to track income and regular payments such as bills |
| **Savings** |
| Users will be able to track investments and savings with interest |
| Users will be able to set interest rates for loans and savings |
| Users will be able to set their monthly deposits to their savings account, retirement plan, etc. |
| Users will be able to create, categorize, and track progress on savings goals and desired purchases |
| **Debt** |
| Users will be able to set/track balances on loans, mortgages, and cards |
| **Self Monitoring** |
| Users will be able to view graphical representations of their spending, savings and budget over time |
| Users will be able to plan a budget and track their adherence to that budget |

**Technology that will be used**

* MERN Stack
  + MongoDB
  + Express
  + React.js
  + Node.js

**High Level Database Architecture**

* Login/Account credentials table
* Option 1: unified table
  + Table for all withdrawals and deposits on all accounts
  + Table for regular payments and interest for all accounts
  + Table for savings goals for all accounts
* Option 2: personal tables
  + Each account gets individual auto-generated tables for info above
  + Has the advantage of easier (and likely faster) sorting, but increases complexity of updates to table format