

YggFinance

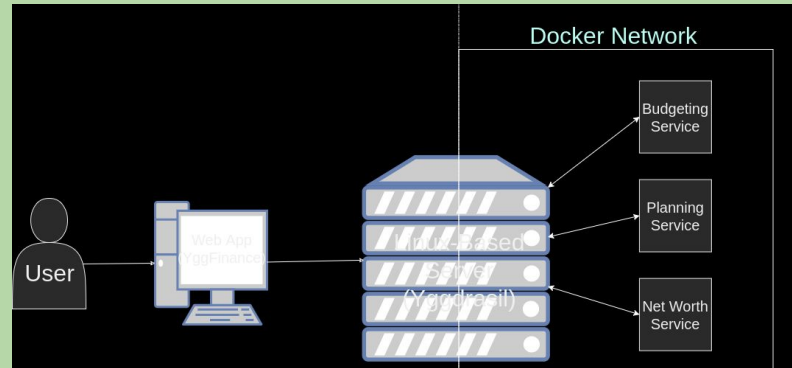
A Personal Finance Web Application

Alan Holman, Austin Kerr, Blake Hudson



YggFinance: What is it?

- Webpage-based application
 - Browser must support cookies
- Interactive user interface
 - Multi-tab menu
 - Tab for each financial planning subject
 - Subject-related tools on respective tabs
- Microservice architecture
 - Each tool will be delegated to a single service





What Will It Do? (Contents of the Top Menu)

Welcome Page:

Short descriptions of the Monthly Budget, Savings Planner, and Net Worth Tracking pages along with their included tools.

Savings Planner Page:

- Investment calculator
- Monthly contributions
- Time frame selection for investments

Monthly Budget Page:

- Plan a monthly budget
- Enter transactions throughout the month
- Reconcile user inputted transactions with tracked transactions from bank statements

Net Worth Tracking Page:

- Net worth tracked via user input
- Pie chart graphic for visualization



Savings Planner

- **Initial investment amount**
 - User input validated to correct form
 - Warning display will appear if not correct
 - Required field for calculation
- **Average rate of return**
 - Will have a form and warning similar to initial amount
 - Required field
- **Monthly contributions**
 - Not required for calculation
 - Will have form validation and warning messages
 - Will default to zero if left empty
- **Timeline**
 - Slider bar form in units of years
 - Selectable range from one to eighty years



Monthly Budget

- **Categories for budgeting**
 - Gas
 - Groceries
 - Utilities
 - Rent/Mortgage
 - Car Payment
 - Cellular/Wireless/Cable
 - Other recurring
 - Other non-recurring
- **Transactions**
 - Consist of: category, merchant, type, date, amount
 - Income or expenses
- **Reconciliation**
 - Takes a month's budget history
 - Compares listed budget with bank transactions



Net Worth Calculator

- **Net Worth Fields**
 - Real Estate
 - Checking Accounts
 - Savings Accounts
 - Retirement
 - Automobiles
 - Other Assets
 - Remaining Mortgage Balance
 - Personal Loans
 - Auto Loans
 - Student Loans
 - Consumer Debt
 - Other Liabilities
- **Pie Chart Visualization**
 - Gives listed percentages of assets and liabilities



Possible Challenges

- **Reconciliation (Monthly Budget)**
 - CSV files may not format properly upon reading
 - Bank statement info may not be available from the institution in CSV
 - Many institutions have different standards for available statement file formats and data formatting
 - Users may often have to default to manual entry
- **Transactions (Monthly Budget)**
 - Auto-updating to show remaining budget balance
 - Allowing some visual cue to allow users to see they have encountered an error in real time