Project idea

Context

My application is running in the finance and personal use area, the idea is to explore save goals using cloud based databases to create a multi user and easy to use application. By exploring this area users will be able to designate their own save goal and add and remove expenses and income as they please in order to track their finances to meet the target save goal.

Problem statement

The specific Issue i am targeting is saving. Many people in the country struggle with managing their finances so by using this finance tracker they can easily append the database through a simple and easy to use application to meet a save goal. Whether they plan to meet it in a year, a month or a week is up to the user.

Evidence and impact

A key problem found when it comes to managing finances is doing the actual tracking. People tend to try and save money but they instead just keep spending money without releasing how it reflects against their income. This is especially easy in the modern era of google and apple pay where the public just tap their phones and go giving the placebo that they are not actually spending any money. The goal of the app is to allow users to see how their spending matches up against their save goal by taking each expense away from their income.

Current solution

There are solutions available for this problem but a lot of them are in individual saving accounts on banking apps. The problem with this is it only takes into account money going into the account, my aim is to track both money you have and money you spend to allow the user to manage their finances to meet their save goal.

Idea overview

The idea of my app is a simple and easy to use save goal and finance tracker. By registering with your email and creating a password a user can have access to their own save goal and monitor their expenses and income. In having this login system users will be able to create multiple accounts and additionally there is a layer of privacy to users personal finances.

Key features

The main component of my solution is the cloud based database, in using this I have made it so there can be as many accounts on the database as needed and this allow for privacy amongst finances and a multiuser platform meaning there is scalability to the use and potential in the future for multiple users to link their goals.

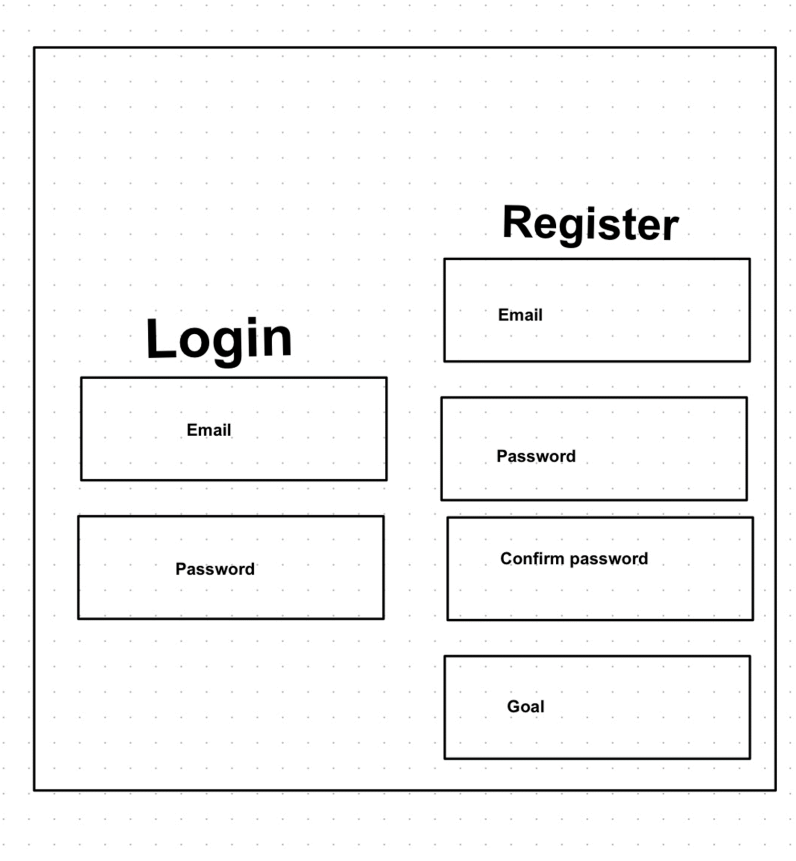
Expected outcome and benefits

The expected outcome of the project is a fully functioning and error tested computer application that works with some modularity dependent on screen size. The prototype would have an active save goal and work by communicating with the database to append a specific user's data. This is done by having a UID linked to each authenticated user and using this to determine whose data is being altered.

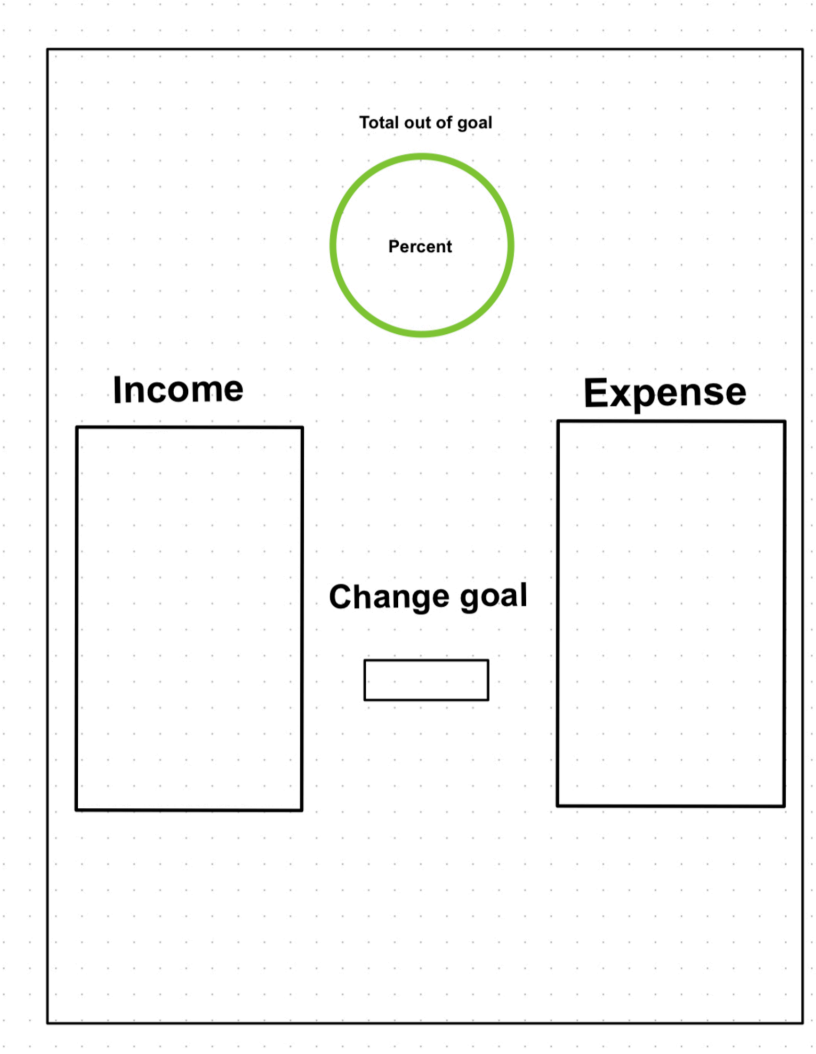
Scope and development
In the future I aim to improve upon the prototype by making it fully modular to mobile devices, allow for multiple users to access the same save goal and maybe link it to bank accounts or apple pay to automatically update the income and expenses tables. The current application is a fully functioning prototype of the solution and works error free without risk of crashing as all errors get caught in try and catch loops displaying error messages to the user.

Next steps
Immediately I would gather feedback on how I could improve on the current application and what users would want to see first whether it be linking to other users' save goals or linking to Apple Pay to make it less tedious for users to input their income and expenses.

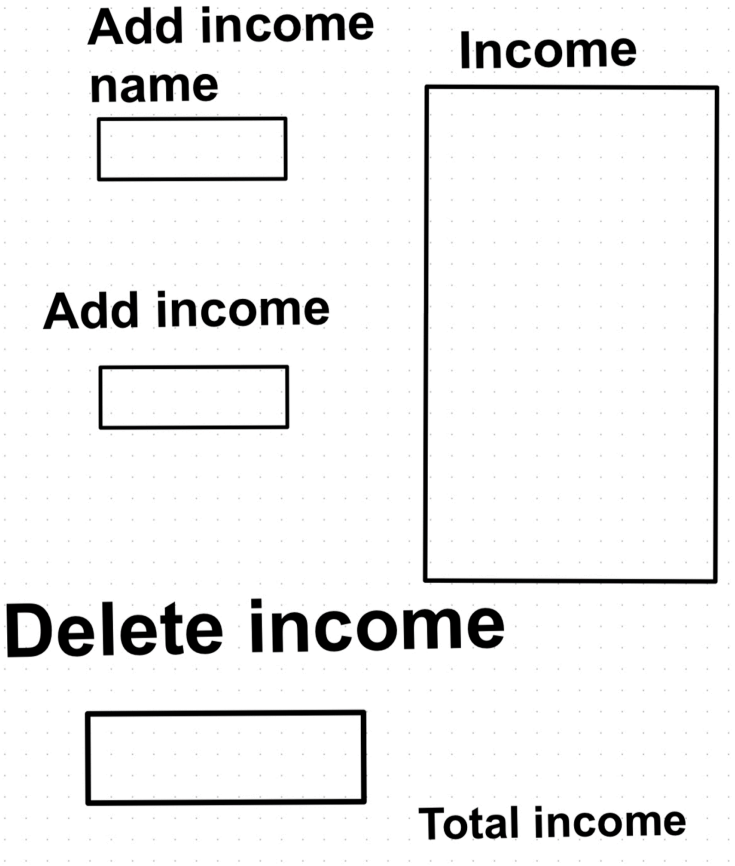
Designs
The goal of the application is to be simple, easy to use and no nonsense design. To achieve this I opted to forego using excessive imagery and overly cursive fonts in order to ensure a clear and simple design which needs little instruction on how to use.



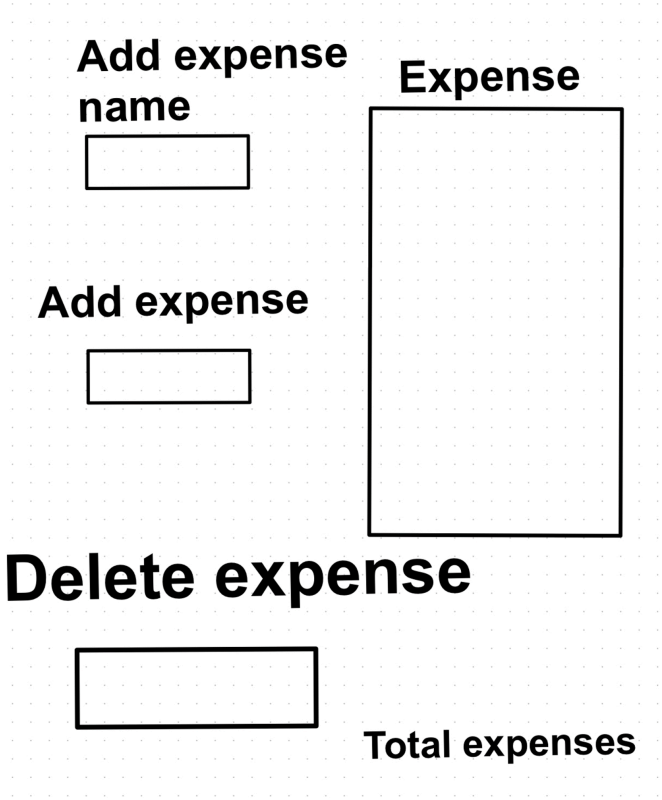
The login page is designed in order to come across simple and easy to understand. By abstaining from flashy over the top designs will result in a more sleek and professional look.



The Main page is the one you are pushed to once you have logged in. At the top there is a total and then there is a bar and percentage of how close to your goal you are. You can also alter the goal to make the saving dynamic depending on whether your goal changes. On the left and right there are two lists that contain all of the expenses and income.



This is the income page where users can add income using the top two text fields. This page will have a green colour scheme, users will also be able to delete income by entering an index that appears in the list on the right hand side.



The expense page is the same as the income but with a red colour scheme instead. All of the pages will have a logout button on the top left to push the user back to the login page.

My designs are aiming at minimising unnecessary additions to the screen in order to present a clean design to the user. This will optimise the user experience by reducing the complexity. Additionally, I plan on having error messages whenever user inputs are wrong in order to direct users to have correct inputs.

Test Tables

Text Field	**Data**	**Expected result**
Emails	123	Error message giving correct format
Emails	123@gmail.com	If password correct it works
Passwords creator	1234	Tells the user to input a 6 digit password
Password Checker		If it matches the entered password it will work
Alter goal	500.42	Will work and alter the save goal
Alter goal	‘abc’	Will print an error message
Enter expense name	123	Will print error message saying it must be a string

Enter expense name	‘abc’	Will allow and pass to the database if the value is correct
Enter expense value	‘abc’	Will print error message saying it must be a double
Enter expense value	123.42	Will allow and pass to the database if the value is correct
Enter expense value	123.1324	Will round to 2 D.P
Enter an index	‘abc’	Will print an error for not being an integer
Enter an index	2	If index in the list it will delete the item at that index. If not an error will show
Income values	N/A	They all work and test the same as the expense