The Four Corners presents:



A budgeting application for college students

We Are: The Four Corners

Jason Tanis

- Major: Statistics
- Minor: Computer Science
- Roles: Project Manager, Python Developer, Database Manager, Android Tester

Sam Bergman

- Majors: Computer Science, Piano Performance
- Roles: Python Developer, Assistant Database Manager

Kelsey Tedford

- Majors: Mathematics (Applied Emphasis), Statistics
- Minor: Data Science
- Roles: Prototype Developer, Assistant Database Manager, iOS Tester

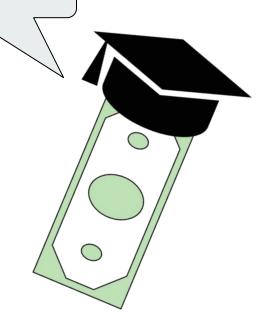
Tony Choummanivong

- Major: Cybersecurity
- Roles: Python Developer, App Tester

Why Degree Dollars?

Be a savings scholar!!

- Designed for undergraduate and graduate college students
 - Students incur a lot of expenses
- Degree Dollars is a budgeting app
 - Can plan for expenses and keep consistent record of available funds
- Primarily developing for Android/iOS
 - Desktop version will also be available



Functionality Overview

Login

Budget

• Expense & Income

History

Loan Calculator

Login

- Not yet implemented in BeeWare
- Currently, just a "View my Budgets" button (left)
- See Figma prototype (right)





Login (cont.)

- "Sign Up" and "Login" features have been prototyped in Figma
 - "Sign Up" to create new account
 - "Login" for existing accounts
- Having a user account would allow for app use across multiple devices (e.g., phone and computer)
 - Otherwise, user activity could only be locally saved
- This will be one of our last features to implement

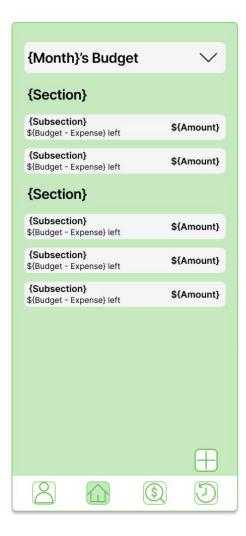




Budget

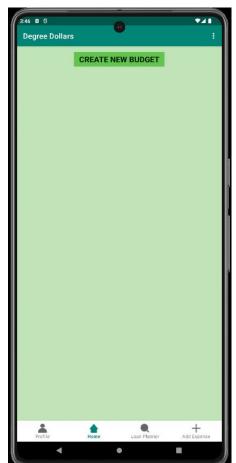
- In BeeWare, budgets cannot yet be saved
 - "Save Budget" only
 returns user to Home
 Screen
- Additionally, we still need to allow user to:
 - Add their own categories
 - Add additional subcategories



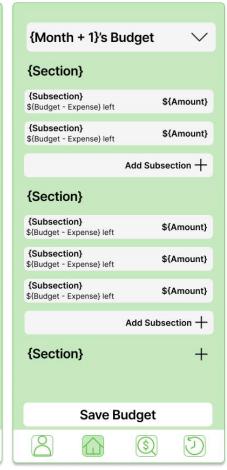


Budget (cont.)

- After saving their first budget, user can add budgets for remaining months of current year
 - This has not yet been implemented in
 BeeWare
 - Only have navigation bar and "Create New Budget" button

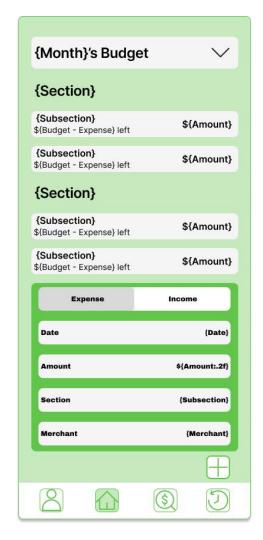




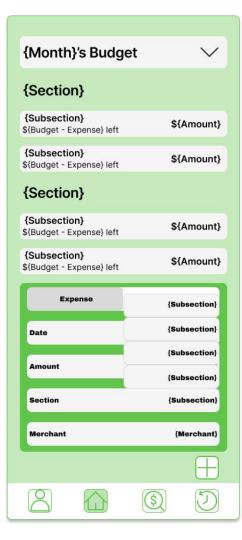


Expense & Income

- Not yet implemented in BeeWare
- Allows user to add/subtract money from a subcategory of their choosing







History

- Not yet implemented in BeeWare
- Allows user to view all previous transactions (i.e., expense/income)

M D	{Subsection} {Merchant}	\${Amount}	
M D	{Subsection} {Merchant}	\${Amount}	









Loan Calculator

- Not yet prototyped or implemented
- Accepts multiple user values:
 - Total loan amount
 - Interest rate
 - o Either:
 - Planned monthly payment
 - Planned number of months to have loan paid in full by
- Will calculate either:
 - Monthly payment to make
 - Number of months to pay loan in full by
- This will be one of our last features to work on

The Tech Behind Degree Dollars

The BeeWare suite:

- Briefcase (for app deployment on Android, iOS, and Desktop)
- Toga (for GUI of app)
- BeeWare uses Python code
 - All teammates familiar with Python
 - Easily understandable

SQLite

- Allows for connection between Python code and SQL/NoSQL databases
 - Databases to store user login info and saved budgets

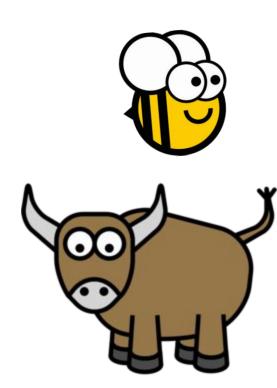
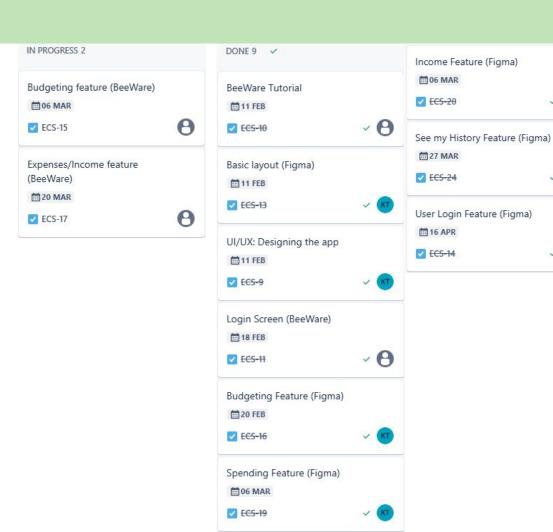


Image credits: https://beeware.org/ | <

Progress Summary

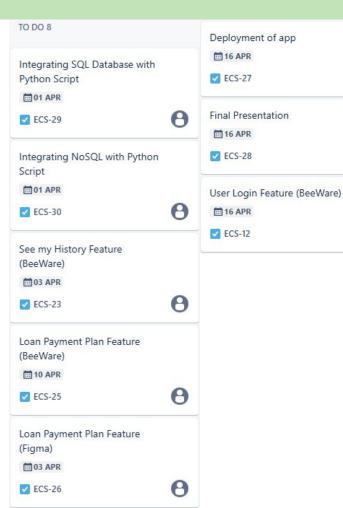
- Have had 5 SCRUM meetings, 4 with TA involved
- Team is progressing via regular prototyping and development
 - Communicating via Slack
- Currently implementing:
 - Budget
 - Expense & Income
- Nearly all prototyping is complete
 - See Done items



Progress Summary (cont.)

- To Do items primarily consist of:
 - Integrating SQL and NoSQL databases
 - $\circ \qquad \text{Implementing features in BeeWare} \\$
- To summarize:

Total Jira tickets	19
To Do items (count, %)	8, 42.105%
In-Progress / Done items (count, %)	11, 57.895%
Done items (count, %)	9, 47.368%



Gantt Chart

- Majority of prototype development is complete
- Implementation roughly 30% complete
 - Progress will likely speed up as development team becomes more efficient in coding

TASK

 Database integration to begin end of Feb./beginning of Mar.

	India	I CD.	wa.	Apr.
	Prototype Development (Figma)			
	Basic layout (fitting it to a phone screen)			
	UI/UX (designing colors, icons, and logo)			
	Budgeting feature (user creating budgets)			
	Spending feature (user subtracting money)			
	Income feature (user adding money)			
	See my history (list of previous user actions)			
nt is	Loan payment plan feature			
	User login feature (sign up/log in) - not essential			
	Implementation (BeeWare)			
	BeeWare tutorial			
plete s nore	Opening screen (with logo)			
	Budgeting feature (user creating budgets)			
	Income/Expense feature (+/- from existing budget)			
	See my history			
	Loan payment plan feature			
	User login feature - not essential			
of	Database Integration			
	Integrate SQL database (to save user login info and transactions (i.e., "+/-"))			
	Integrate NoSQL database (to save user budgets)			
	Final Steps			
	Final presentation preparation			
	Final deployment of app			

Feb.

Feb.-Apr. 2025

Apr.

Mar.