



Financial Literacy App



Meet Our Team

Counting Cents & Making Sense

Maryzabeth
Philip



- UI/UX
- Backend (Primary)
- Database
- Frontend
- Content Research
- Testing

Berenice
Rojas



- UI/UX
- Frontend (Primary)
- Backend
- Project Manager

Kristen
Wishart



- UI/UX
- Frontend (Primary)
- Backend
- Content Research
- Database
- Testing

Mikey
Nichols



- Frontend & Backend
- Testing (Lead)
- Project Manager
- DevOps
- UI/UX (Minor)

Mario
Martinez

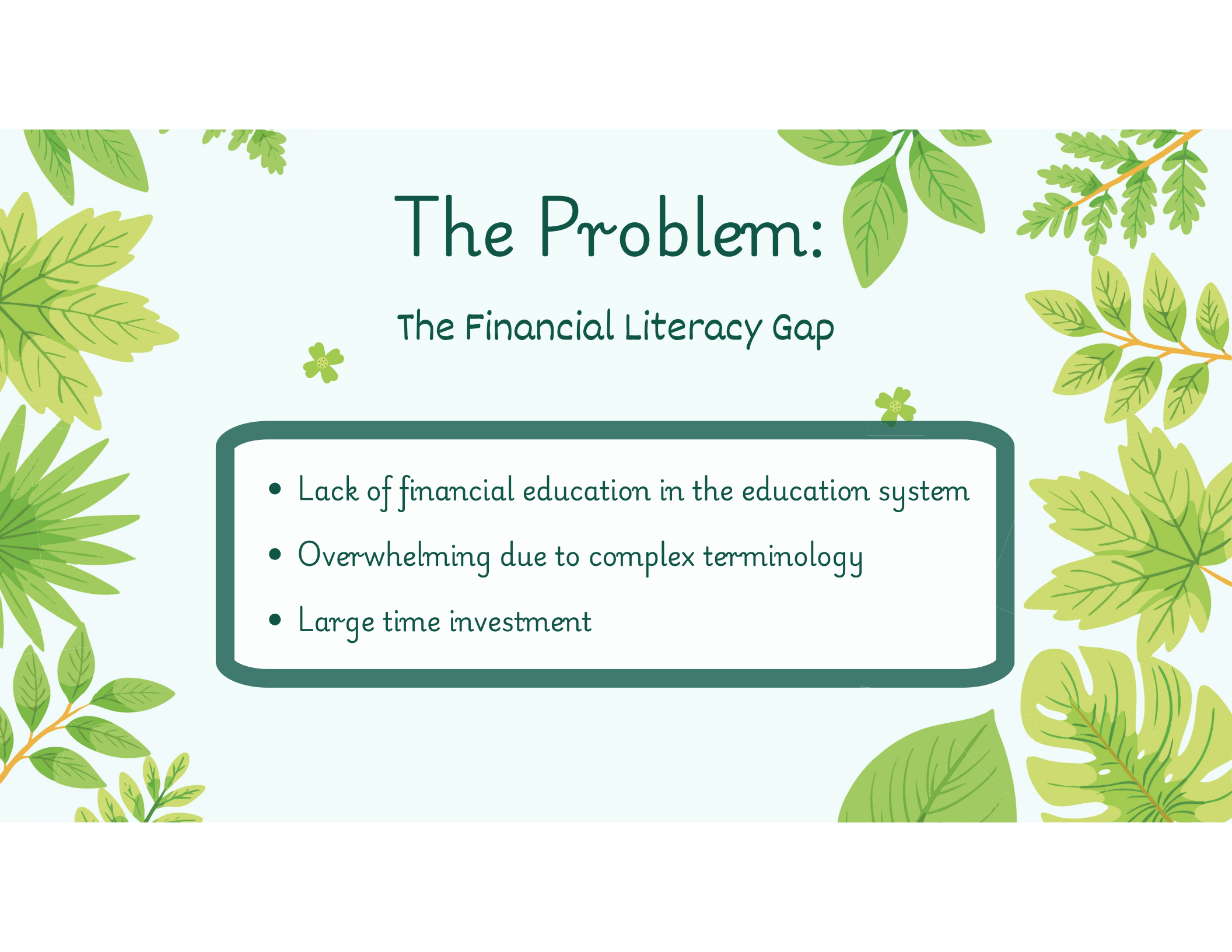


Lead
Mentor

Hector
Gonzalez



Assistant
Mentor



The Problem:

The Financial Literacy Gap

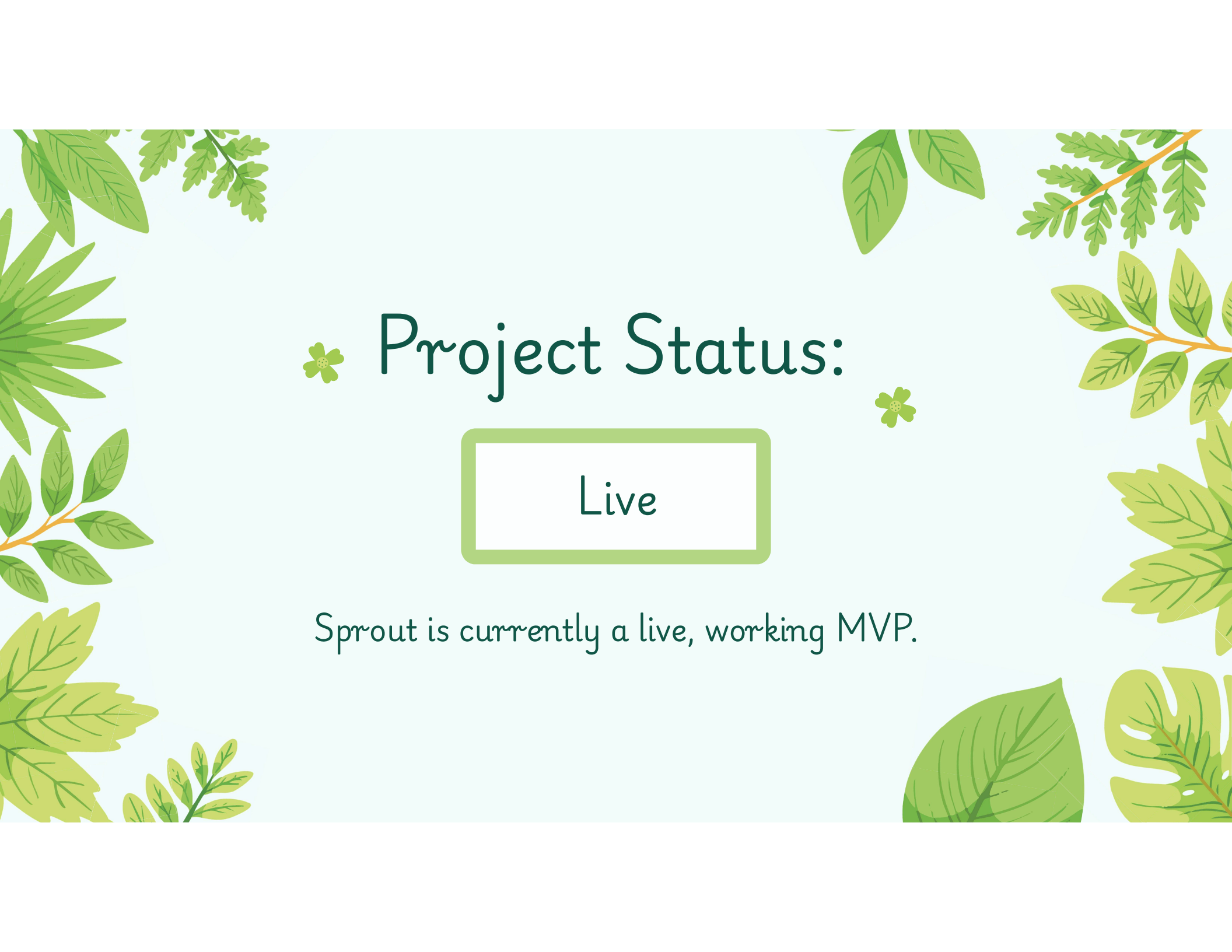
- Lack of financial education in the education system
- Overwhelming due to complex terminology
- Large time investment

The Solution:



Approachable, gamified financial-literacy app

- Bite-sized lessons with interactive quizzes
- Clear explanations and quiz review
- Guided learning paths
- Progress tracking
- Reward system



Project Status:

Live

Sprout is currently a live, working MVP.



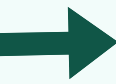
Planting the Seeds for Our Application

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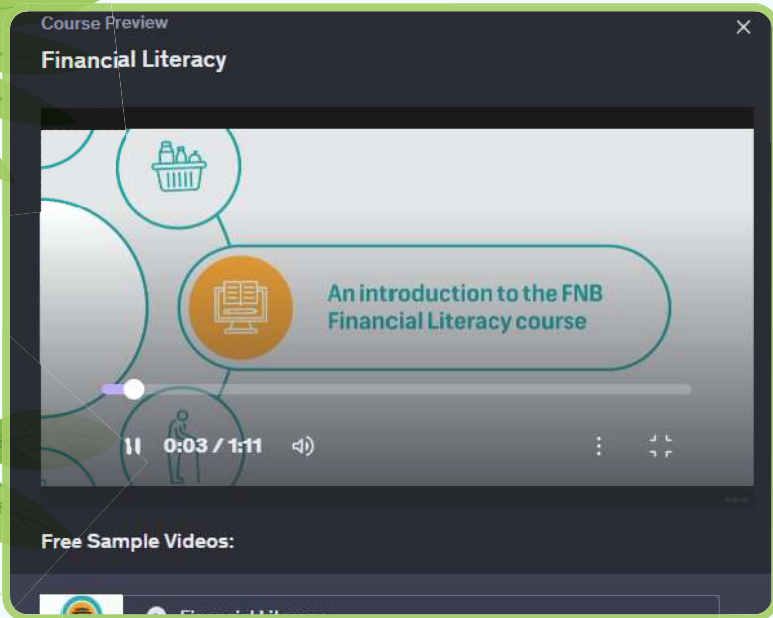


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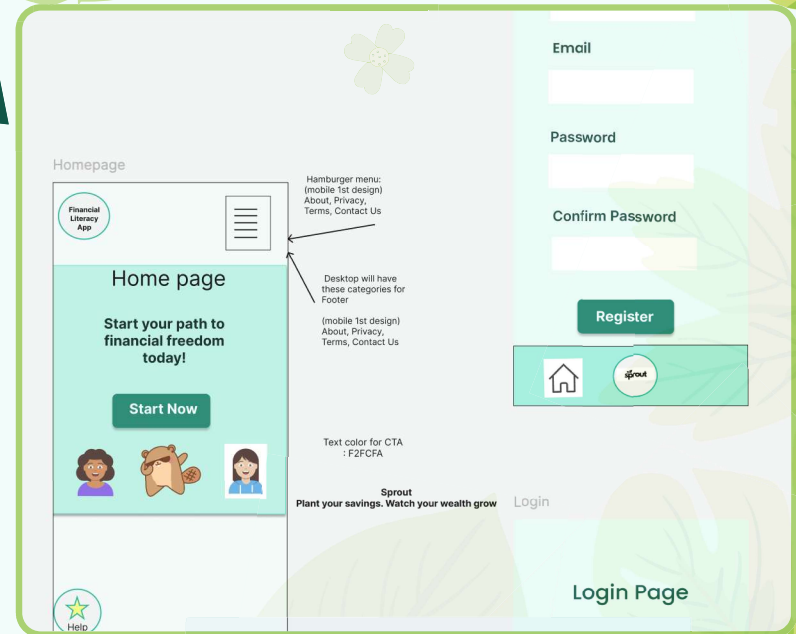
<https://ncchildsupport.ncdhhs.gov/ecoa/index.jsp?timeout=true>



Planting the Seeds for Our Application



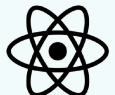
Financial Literacy Course - Udemy
By First National Bank (FNB)



Figma

TECH Stack

Core Frameworks and Platforms

-  React — Frontend UI
-  Express — REST API Framework
-  Tailwind CSS — Styling
-  React Router — Client-Side Routing
-  MongoDB — Database
-  Vite - Frontend Build & Development
-  Node.js — Backend Runtime
-  Mongoose — MongoDB Object Modeling

TECH Stack

Supporting Libraries



React Hook Form —
Form State and
Validation



Zod — Frontend
Schema Validation



Joi —
Backend Request
Validation



JSON Web Token —
Authentication



Helmet — HTTP
Security Headers

- Morgan —
Request Logging
- dotenv — Environment
Configuration

- Express Rate Limit —
API Rate Limiting
- CORS — Cross-
Origin Request
Handling
- Cookie Parser —
Cookie Handling

TECH Stack

Testing Code and Quality Tools

✓ Vitest — Frontend Tests



Jest — Backend Tests



Prettier — Formatting



React Testing Library —
Component and User-
Interaction Tests



MongoDB Memory
Server — Isolated
Database Tests



Nodemon — Backend
Development Serve



Postman - Backend
Tests



ESLint — linting

- Supertest — API
integration tests

Welcome to Sprout!

[Home](#)[Login](#)[Signup](#)

Master money in five minutes a day.

Bite-sized lessons on budgeting, saving, and credit — built for students and new grads starting out on their own.

[Register to start learning](#)[See a sample lesson](#)

Why Choose Our App



No Jargon

Learn budgeting basics without the finance jargon.



Gamified Progress

Track streaks and earn badges as you progress.



100% Free

Free forever — no bank account required.

Homepage

[Home](#)[Login](#)[Signup](#)

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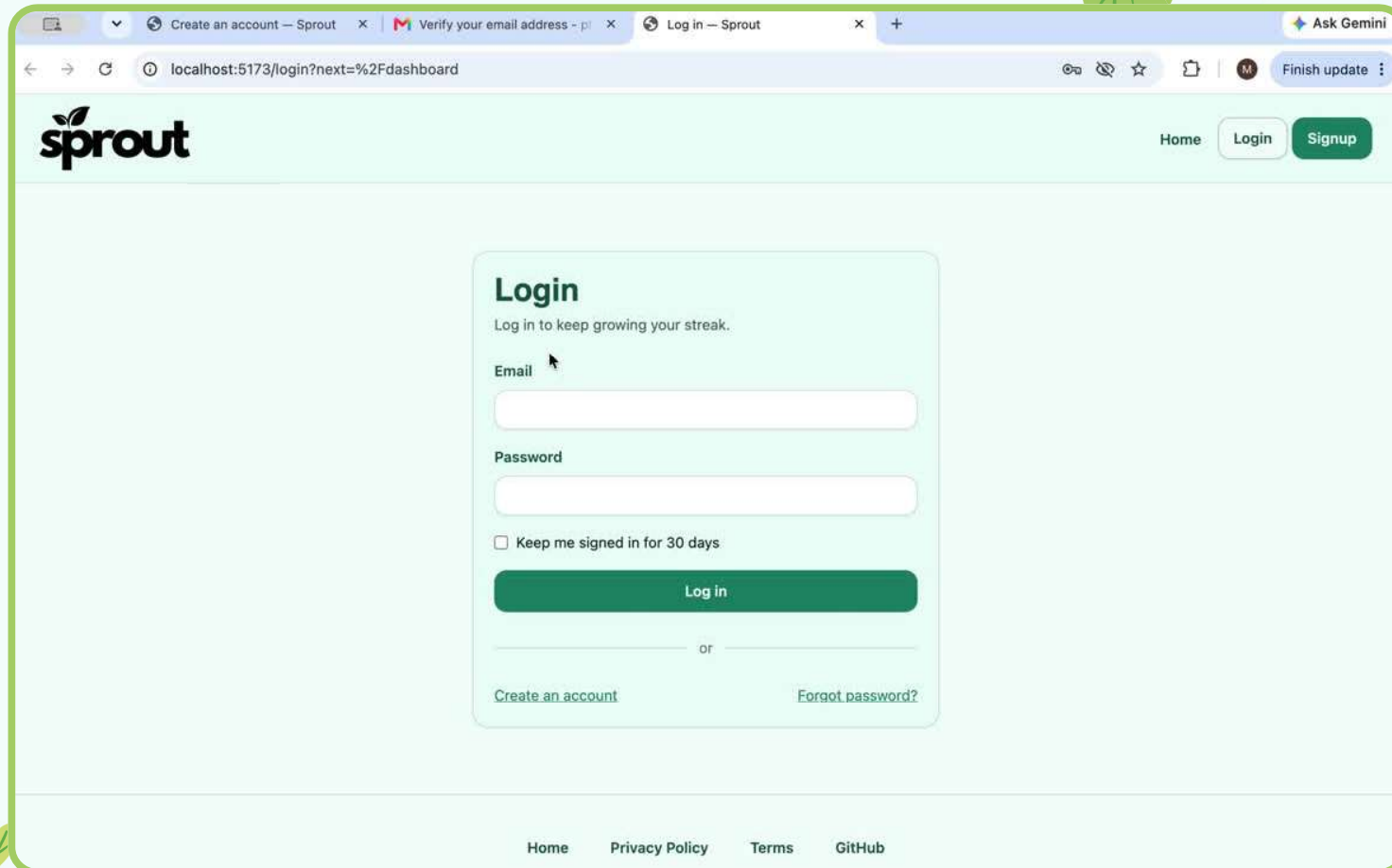
100% Free

Free forever — no bank account required.

The background is a light blue gradient with various green leaf and flower illustrations. On the left, there are clusters of pointed leaves and a small five-petaled flower. On the right, there are more detailed leaf clusters, including a large monstera leaf at the bottom right. Two small five-petaled flowers are also scattered in the center area.

Onboarding & Profile

Onboarding & Profile

A screenshot of a web browser displaying the login page for a service called 'sprout'. The browser's address bar shows 'localhost:5173/login?next=%2Fdashboard'. The page has a light green background with a 'sprout' logo in the top left. In the top right, there are links for 'Home', 'Login', and 'Signup', with 'Login' and 'Signup' being button-like elements. The main content area features a 'Login' section with the text 'Log in to keep growing your streak.' Below this are input fields for 'Email' and 'Password'. A checkbox labeled 'Keep me signed in for 30 days' is present. A large green 'Log in' button is centered below the inputs. At the bottom of the login section are links for 'Create an account' and 'Forgot password?'. The footer of the page contains links for 'Home', 'Privacy Policy', 'Terms', and 'GitHub'. The entire image is framed by a decorative border of various green leaves and branches.

Create an account — Sprout Verify your email address — pl Log in — Sprout Ask Gemini

localhost:5173/login?next=%2Fdashboard Finish update

sprout Home Login Signup

Login

Log in to keep growing your streak.

Email

Password

☐ Keep me signed in for 30 days

Log in

or

[Create an account](#) [Forgot password?](#)

Home Privacy Policy Terms GitHub

The background is a light blue gradient with various green leaves and branches scattered around the edges. The leaves are in different shades of green and have different shapes, including some with prominent veins and others that are more rounded or elongated. The branches are thin and brown, with small leaves attached to them.

Dashboard, Admin Panel & Gamification

Dashboard & Gamification

The screenshot displays the Sprout dashboard for a user named Penny. The interface is clean and modern, with a light green color scheme. At the top, the Sprout logo is on the left, and navigation links for Home, Dashboard, and Learn are on the right. A user profile icon and XP/Day Streak status are also visible. Below the navigation bar, there's a section for 'Retake Sprout Tour' with a checkbox. The main content area is divided into several sections: a welcome message with a progress bar (0% complete), a recommended next lesson 'What is Cash Flow and a Budget?' with a 'Start' button, and an 'EARNED BADGES' section with a placeholder for a badge. On the right side, there's a vertical column of gamification metrics: 'STREAK: 0 days', 'TOTAL XP: 0 XP', 'LONGEST STREAK: 0 days', 'LEARNING DAYS: 0 days', and 'TODAY'S GOAL: 0 / 1 learning check' with an 'In progress' indicator.

sprout

Home Dashboard Learn **P** 0 XP 0 day streak Logout

☐ Retake Sprout Tour

Welcome, Penny
Start with one short lesson and get your first win today.

Overall progress 0%
0 of 6 lessons complete

RECOMMENDED NEXT
What is Cash Flow and a Budget?
Ready to start? Begin with this lesson.
[Start What is Cash Flow and a Budget?](#)

EARNED BADGES
Welcome to your progress dashboard! 🎉
Complete lessons, build streaks, and pass quizzes to earn your first badge.

STREAK:
0 days
Complete a learning check to begin your streak.

TOTAL XP:
0 XP
Total experience earned from lessons and quizzes.

LONGEST STREAK:
0 days
How far can you go?

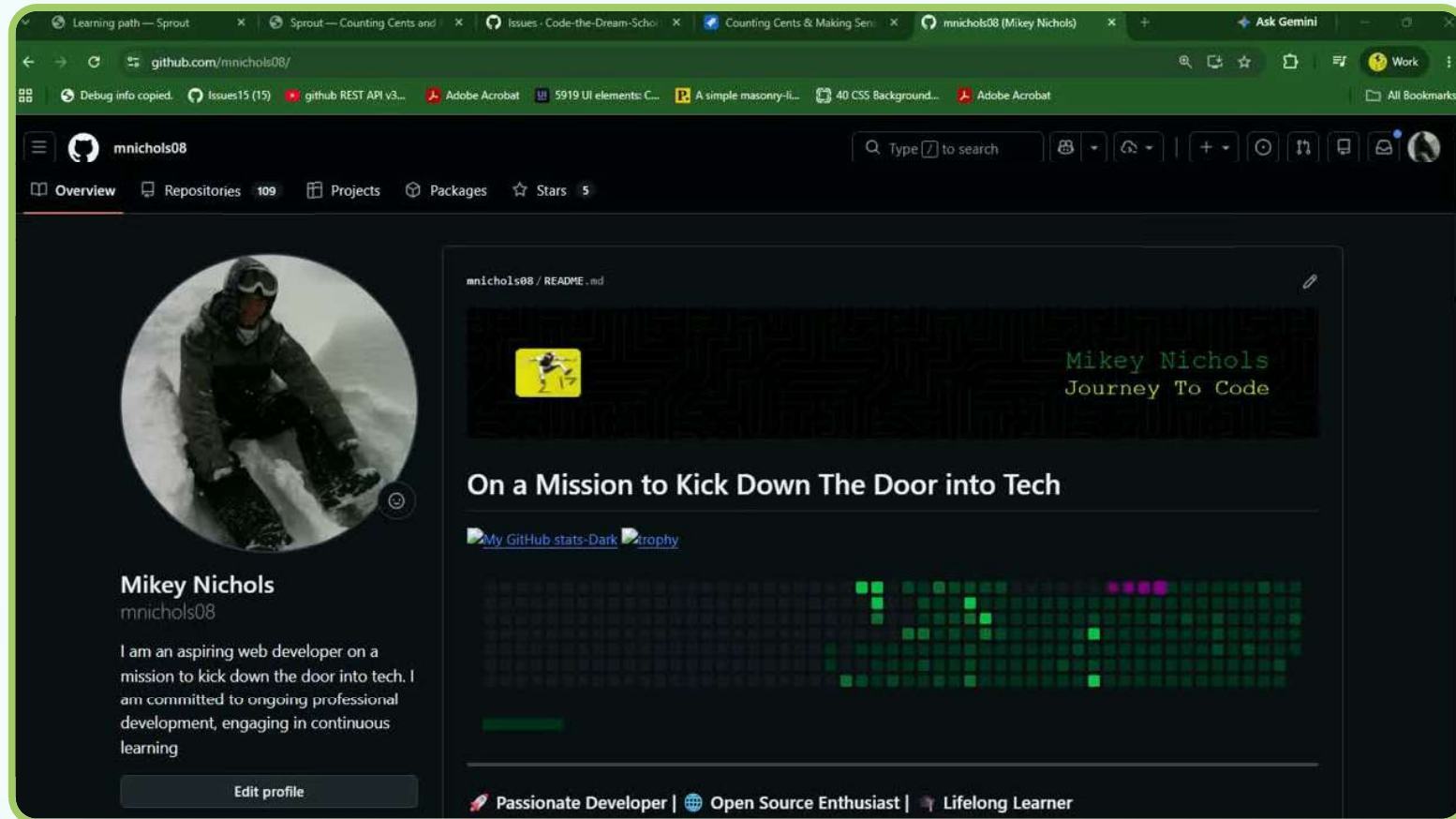
LEARNING DAYS:
0 days
Total days you've completed a new micro lesson.

TODAY'S GOAL: **In progress**
0 / 1 learning check

The background is a light blue gradient. It is decorated with various green leaves and branches. In the top left, there are small, pointed leaves. In the top right, there are larger, oval-shaped leaves. On the right side, there are several branches with different types of leaves, including some with serrated edges and some with prominent veins. In the bottom left, there are small, rounded leaves. In the bottom right, there is a large, heart-shaped leaf with a prominent vein. The text "Lessons & Learning Path" is centered in the middle of the image in a dark green, serif font.

Lessons & Learning Path

Lessons & Learning Path



The screenshot shows a web browser with multiple tabs open, including 'Learning path - Sprout', 'Sprout - Counting Cents and', 'Issues - Code-the-Dream-School', 'Counting Cents & Making Sen...', and 'mnichols08 (Mikey Nichols)'. The active tab displays the GitHub profile for 'mnichols08'.

Profile Information:

- Username:** mnichols08
- Repositories:** 109
- Projects:** 1
- Packages:** 0
- Stars:** 5

Profile Picture: A circular profile picture of a person in winter gear, possibly skiing or snowboarding.

Bio: I am an aspiring web developer on a mission to kick down the door into tech. I am committed to ongoing professional development, engaging in continuous learning.

Buttons: Edit profile

Repository: mnichols08 / README .md

Header: Mikey Nichols Journey To Code

Section: On a Mission to Kick Down The Door into Tech

Links: My GitHub stats-Dark, zrophy

Footer: Passionate Developer | Open Source Enthusiast | Lifelong Learner

Future Features

- Add more modules:
 - Savings / Credit
 - Debt Management
 - Investing (Stocks/Crypto)
- More Gamification:
 - Leaderboard
 - Additional Badges & Ways to Earn XP
- Sound Effects
- More Animations

Struggles, Lessons & Wins

GOALS

GROWTH
MINDSET

NEVER
Give up

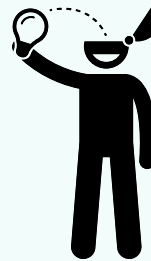
Bug Squashing



Piecing everything together



Bringing ideas



to life!

STAY UP LATE
DRINK COFFEE

Git Merge Conflicts



```
<shout>  
<out_to>  
<ej>
```

Imposter
syndrome





Thank you !

Thank you to Code the
Dream and our mentors. A
special thanks to EJ Mason
for helping us with our
setup.