

# Knight Foundation School of Computing & Information Sciences (KFSCIS)

Fall 2025 Senior Design Project Poster

## \$martSpender

Students: Miladys Perez, Randy Pierre, David Edeldouk, Malik Wahab Rashid, Maria Flores

Mentor: N/A

Instructor/Faculty: Professor Sadjadi, Florida International University

### PROBLEM STATEMENT

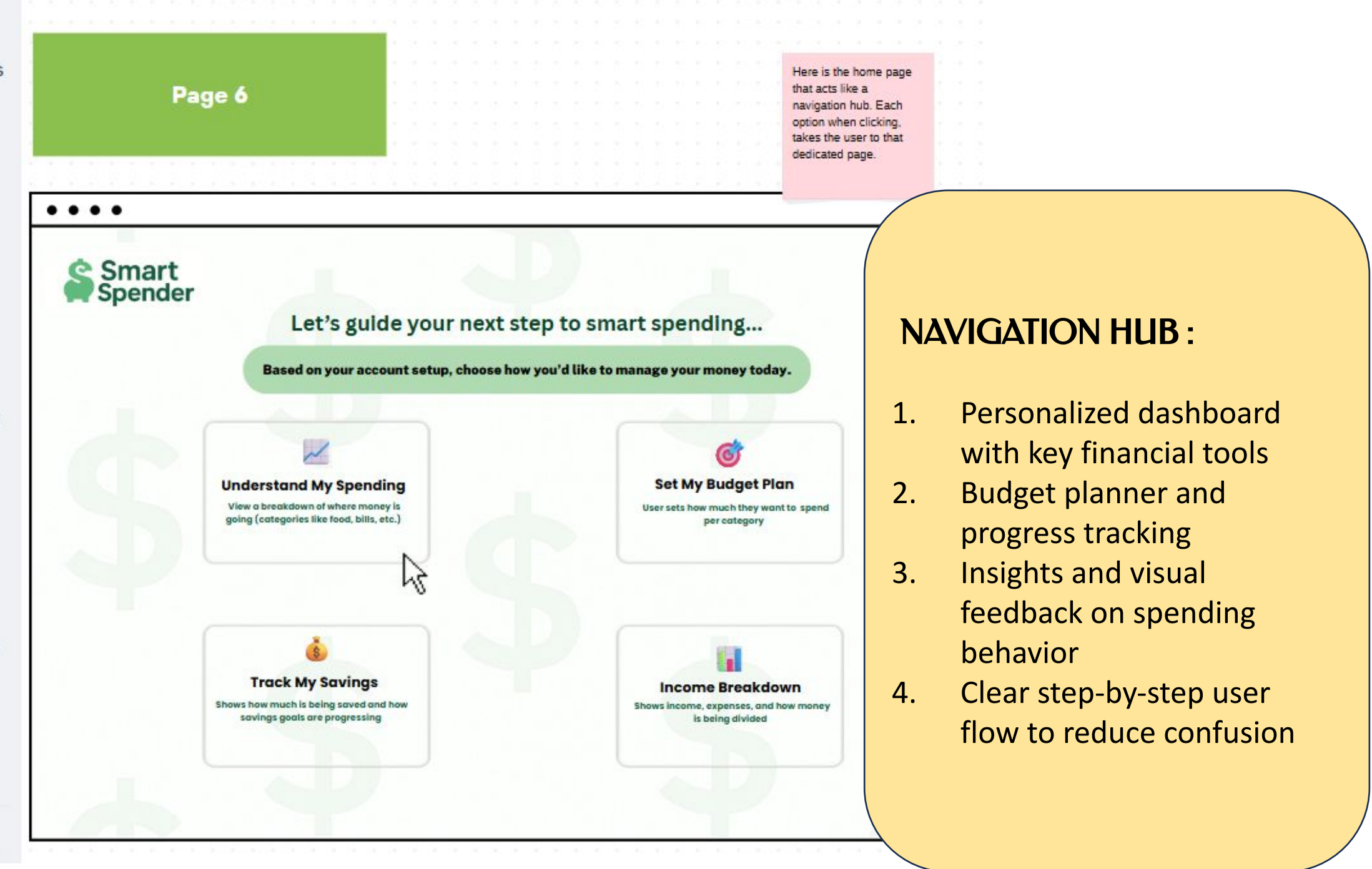
(Fig.1: Budgeting manually at home using traditional tools looks like spreadsheets and printed documents. )



- Traditional budgeting tools are often **error-prone** and **time-consuming**, leading to inefficiencies, inaccurate financial planning, and wasted resources. As individuals strive for precision in financial management, there is a critical need for more reliable and efficient budgeting solutions.

### SOLUTION OVERVIEW

(Fig 2: SmartSpender Dashboard (Page 6) guides users through four key steps.)



- SmartSpender provides a clean, intuitive web platform that simplifies budget management through guided steps. Users begin by creating a secure account, entering their income and expenses, and tracking savings and spending patterns.

### ADVANCED FEATURES/DESIGNS

Fig 7. Spending by category (Donut Chart).

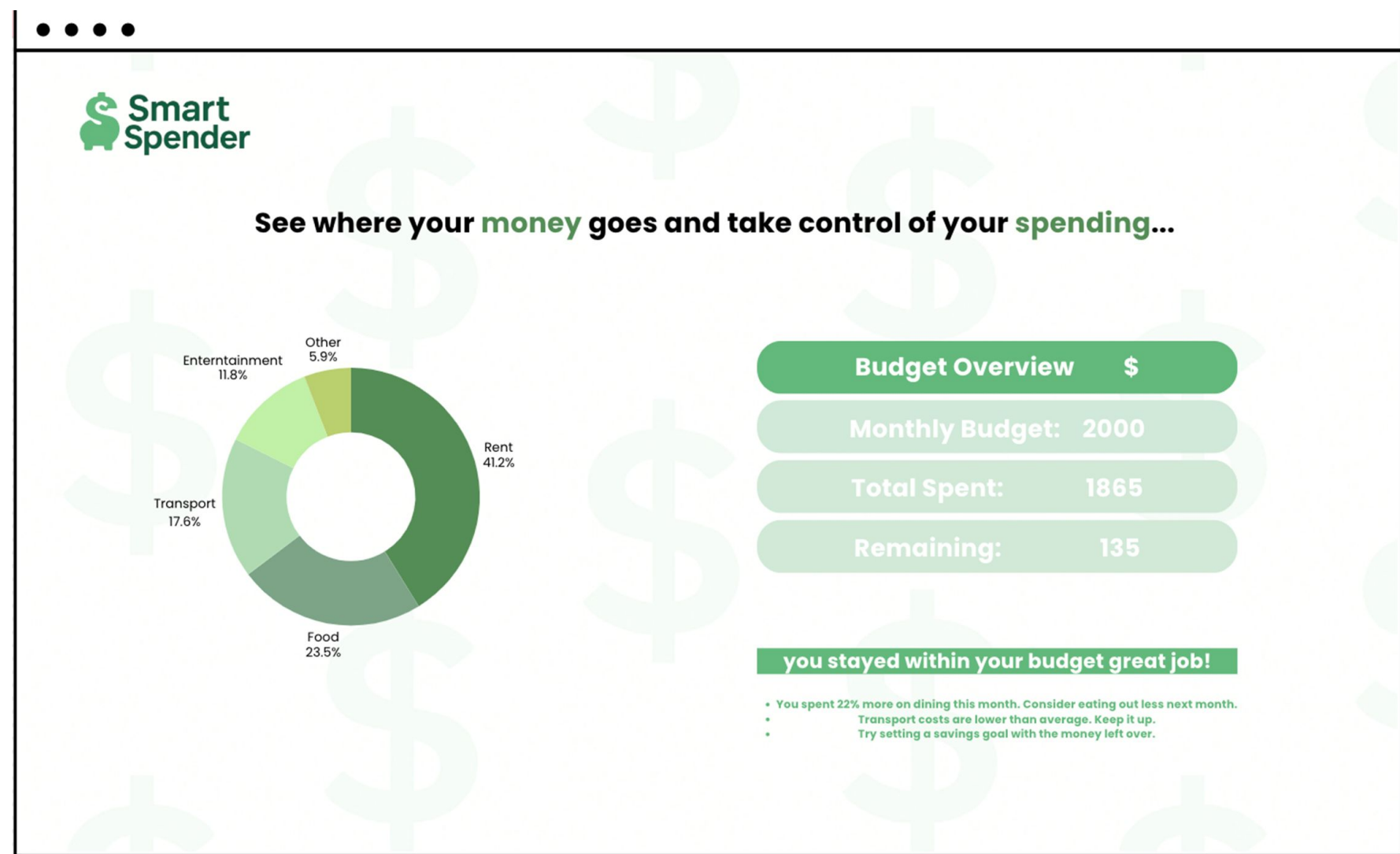


Fig 8. Budget vs. actual (Bar Chart).



Fig 9. Savings progress (Progress Bar).

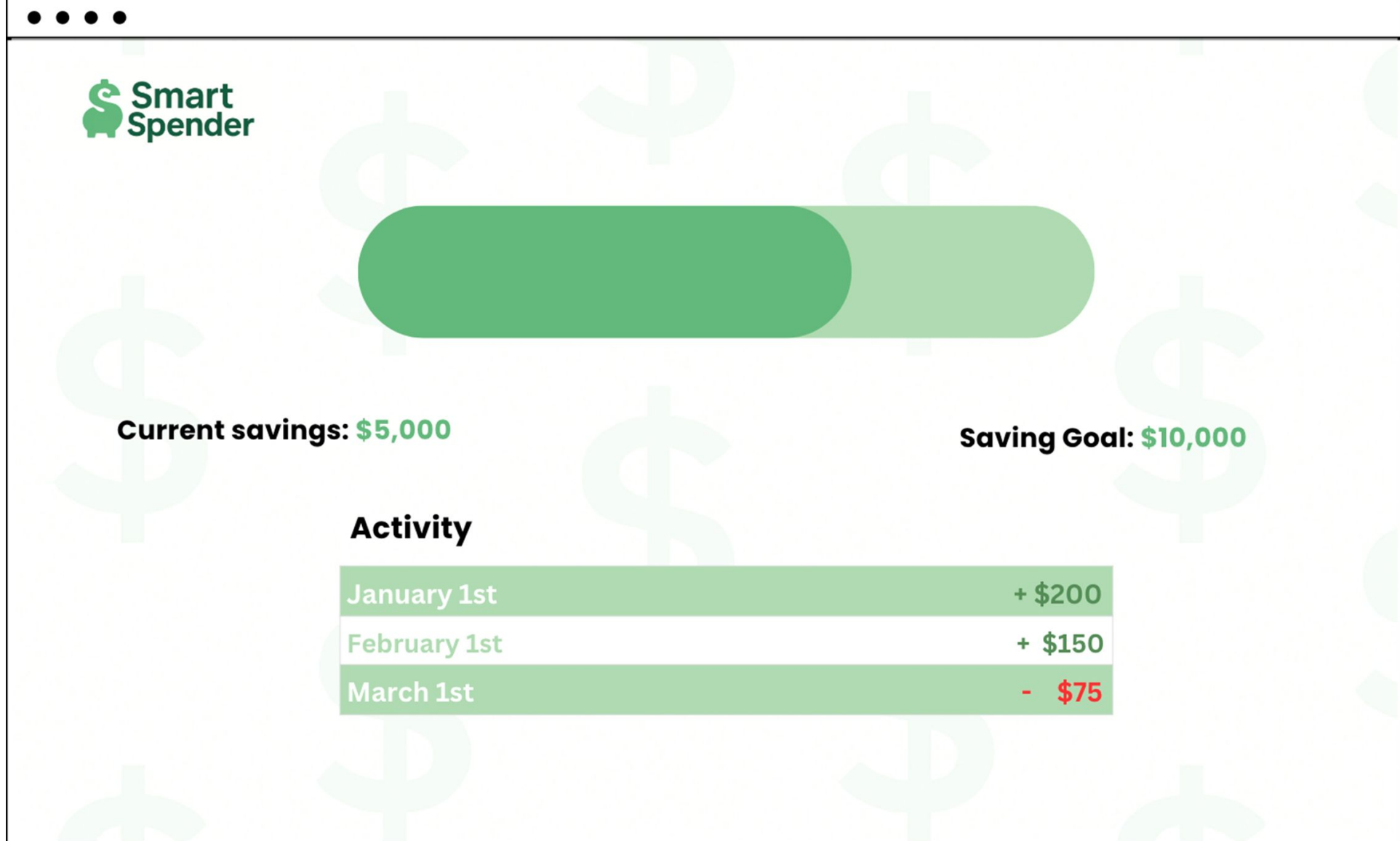
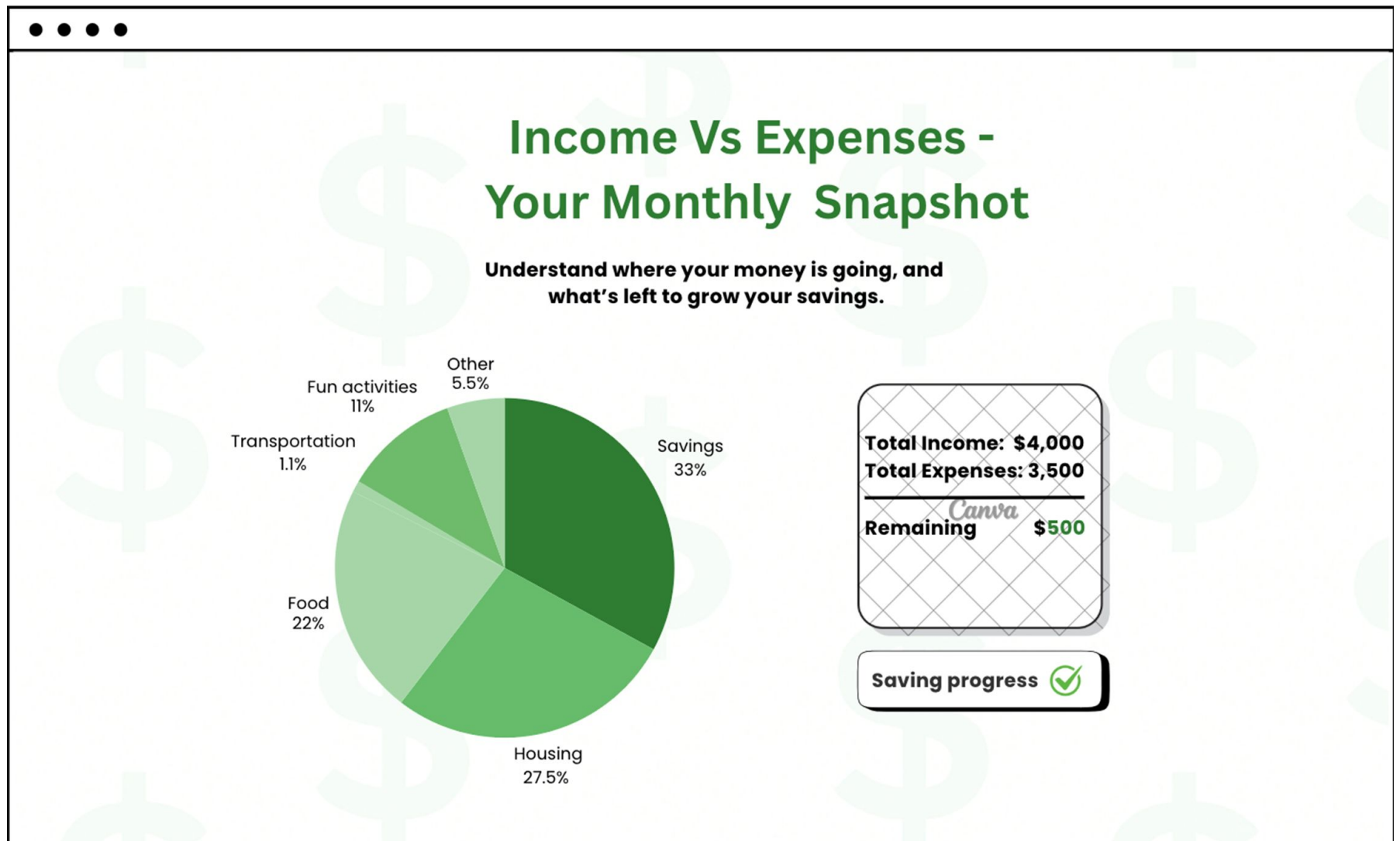


Fig 10. Income distribution (Pie Chart).



### TEAM CONTRIBUTIONS

1. **Miladys Perez:** Team leader, product owner, led the team, track progress, defined vision, and ensure tasks are clear, designed page 3 & 4 (password and security questions), wrote regarding website introduction, wrote basic html for page 3 & 4 of the site.
  2. **Randy Pierre:** Feature writer, designed page 9 & 10 (Track my savings), wrote a list regarding what the site should allow users to do. Wrote basic html for page 9 & 10 of the site.
  3. **Malik Wahab Rashid:** GUI Stylist, designed page 7 & 8 (Understand my spending), wrote regarding user journey, wrote basic html for page 4 of the site.
  4. **David Edeldouk:** Flow planner, designed page 1 & 2 (Intro and name input), wrote regarding page descriptions, wrote basic html for page 1 & 2 of the site.
  5. **Maria Flores:** Wireframe designer, designed page 5 & 6 (Bank Info & account setup), wrote regarding functional requirements, wrote basic html for page 5 & 6 of the site.
- All of us collectively designed and wrote html for the website pages (1-10) on canva.

### WEBSITE VISUALS

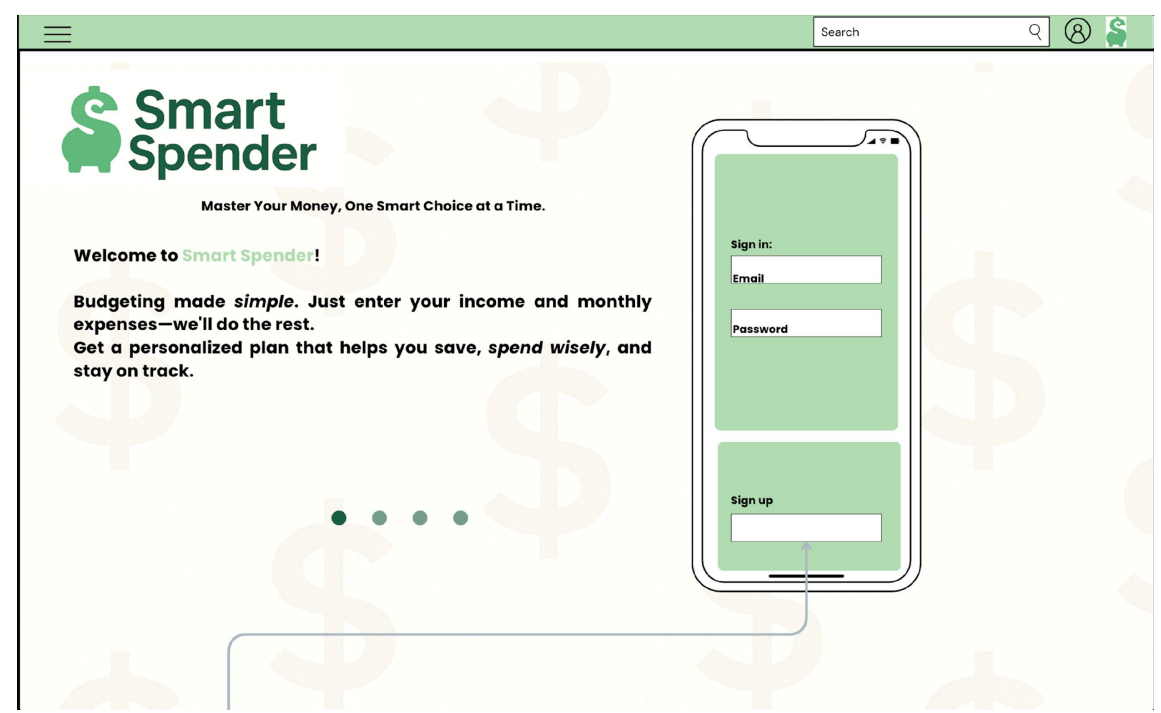


Figure 3: Secure sign up flow  
This is the first screen a new user sees. It asks the user to enter their email and password to either sign in or make a new account. The design is simple and easy to understand which makes the process clear for anyone using it.

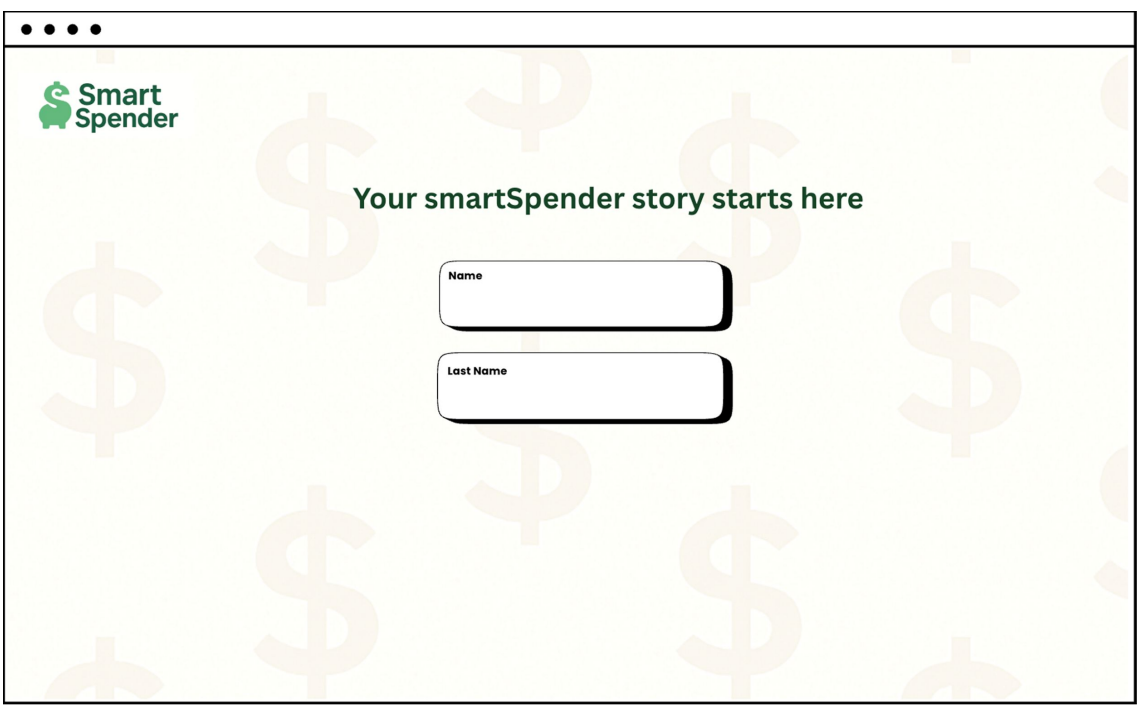


Figure 4: User identity setup  
After signing up the user needs to enter their name and last name. This helps the system know who is making the account. It is the first step to create a personal and secure budgeting profile.

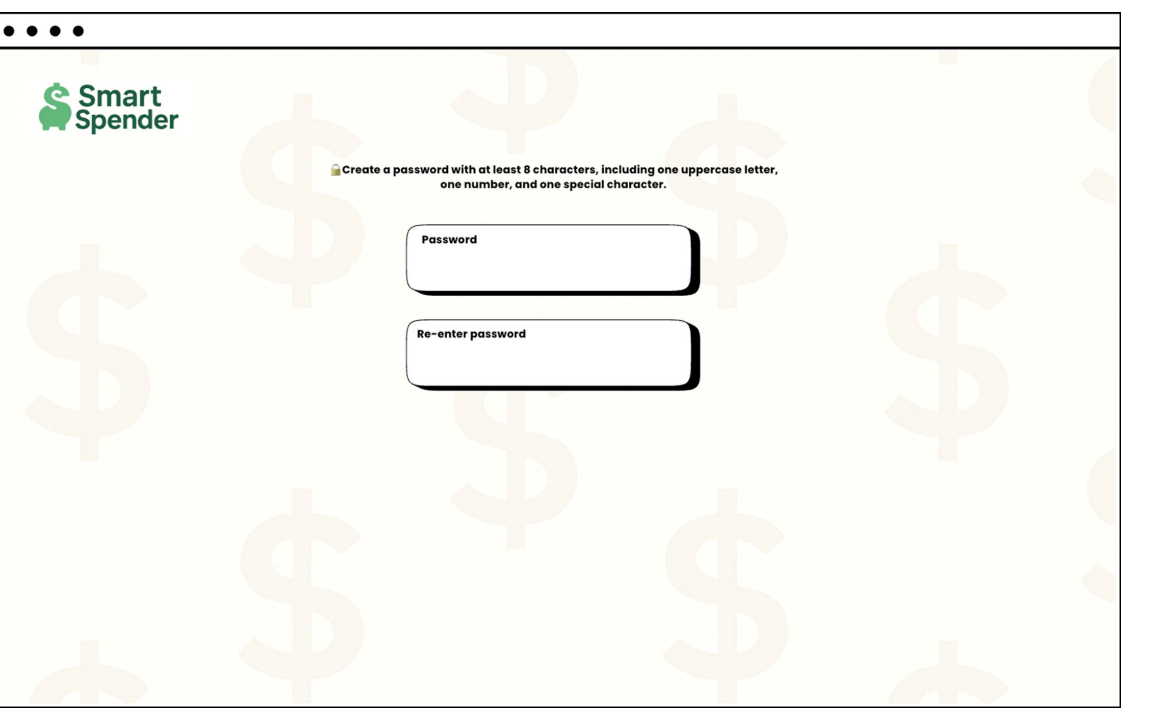


Figure 5: Password creation  
This screen lets the user make a strong password. It asks for at least 8 characters with one capital letter, one number, and one special symbol. This helps keep the user account safe from hackers and protects personal money data.

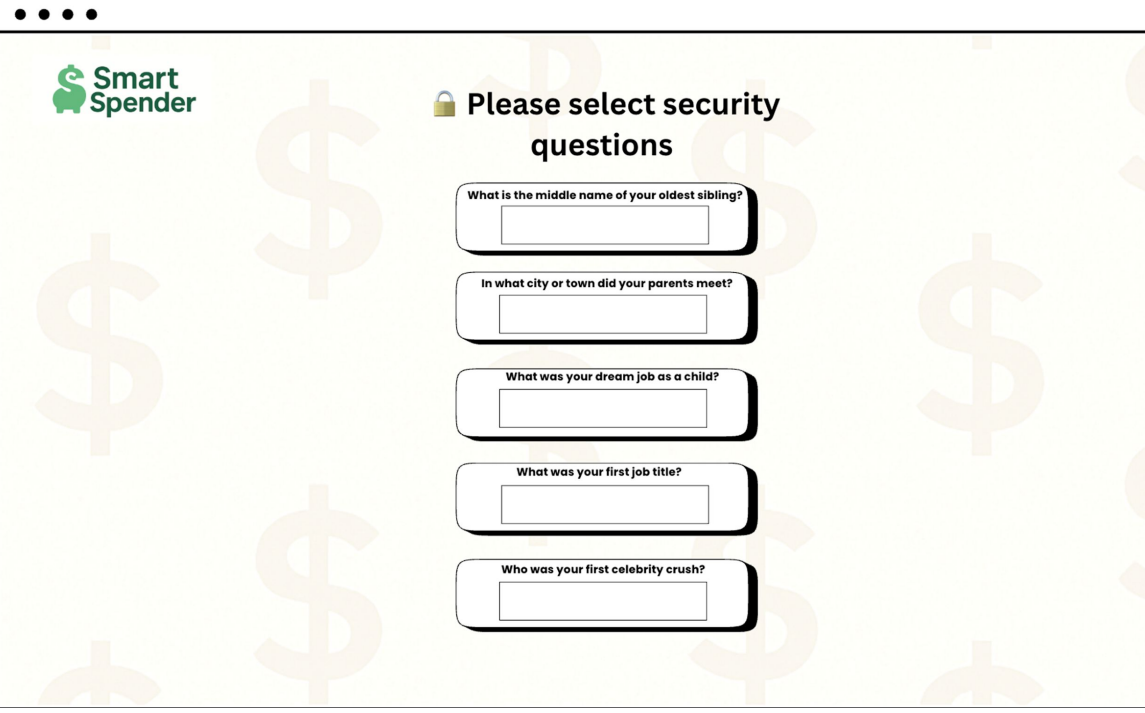


Figure 6: Security questions  
This page helps protect the user account. It asks questions like your first job or where your parents met, so only the real user can access it later if they forget something.