

Sprint-2

# SMART BUDGET

Your money, your rules

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# SPRINT 1 RECAP

## Key Achievements:

- Completed project description and system overview.
- Developed a low-fidelity Figma prototype: dashboard, transactions, goals, login/registration pages, AI features.
- Built a Trello product backlog with detailed user stories, prioritization (INVEST & DEEP principles), and workflow management.
- Documented Scrum ceremonies: Daily stand-ups, Sprint Planning, and Retrospective.

**Goal**  
Lay the foundation of the Smart Budget App, understand requirements, design the low-fidelity prototype, and organize the product backlog.

# SPRINT 2

## GOALS

- **Design(figma)**

- created components

- **Front-end goals**

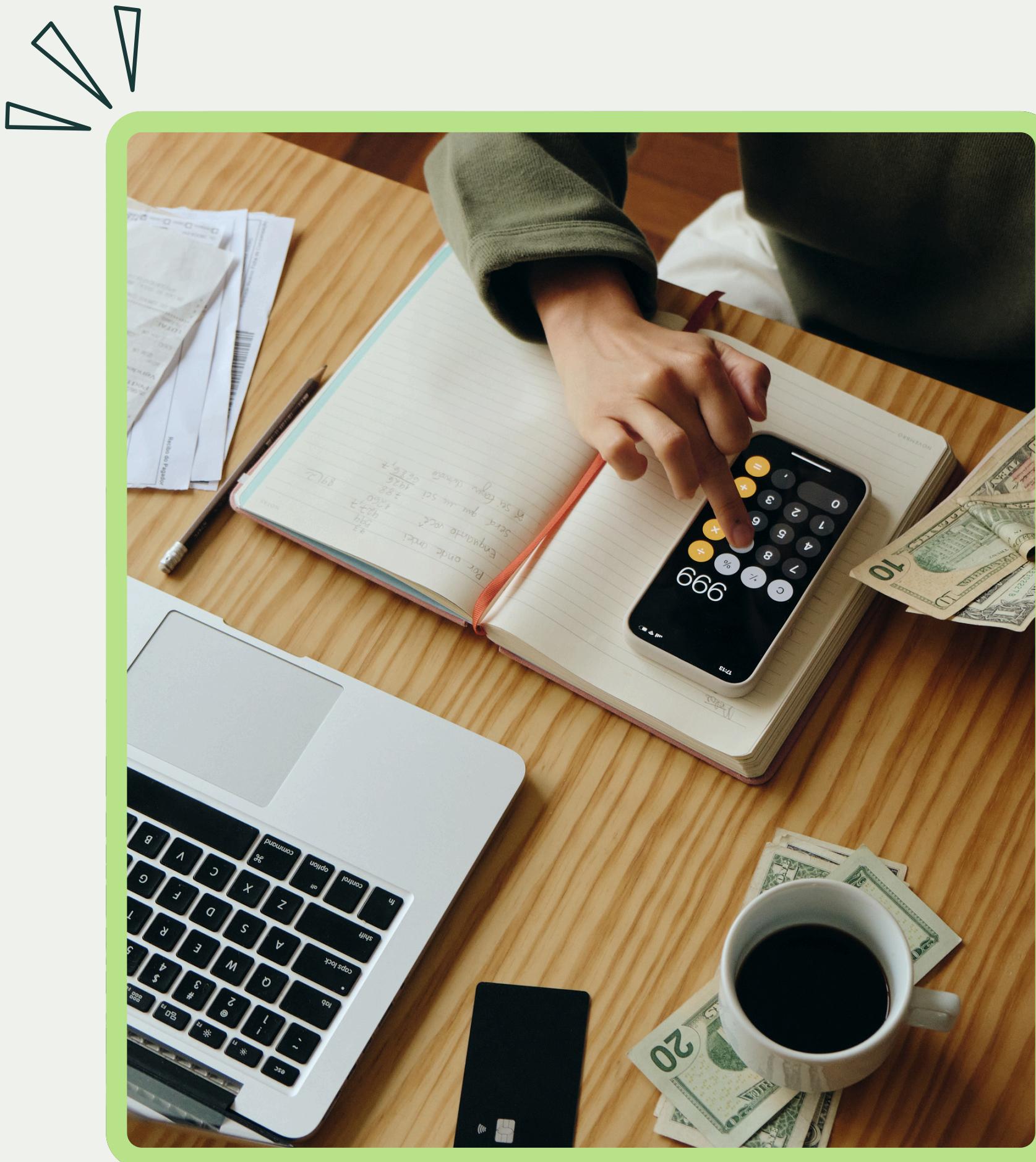
- Build responsive React components from prototype
- Add registration and login forms with validation
- Implement routing between web pages.

- **Back-end goals**

- User Authentication and API Development
- Add AI Functionality using REST API

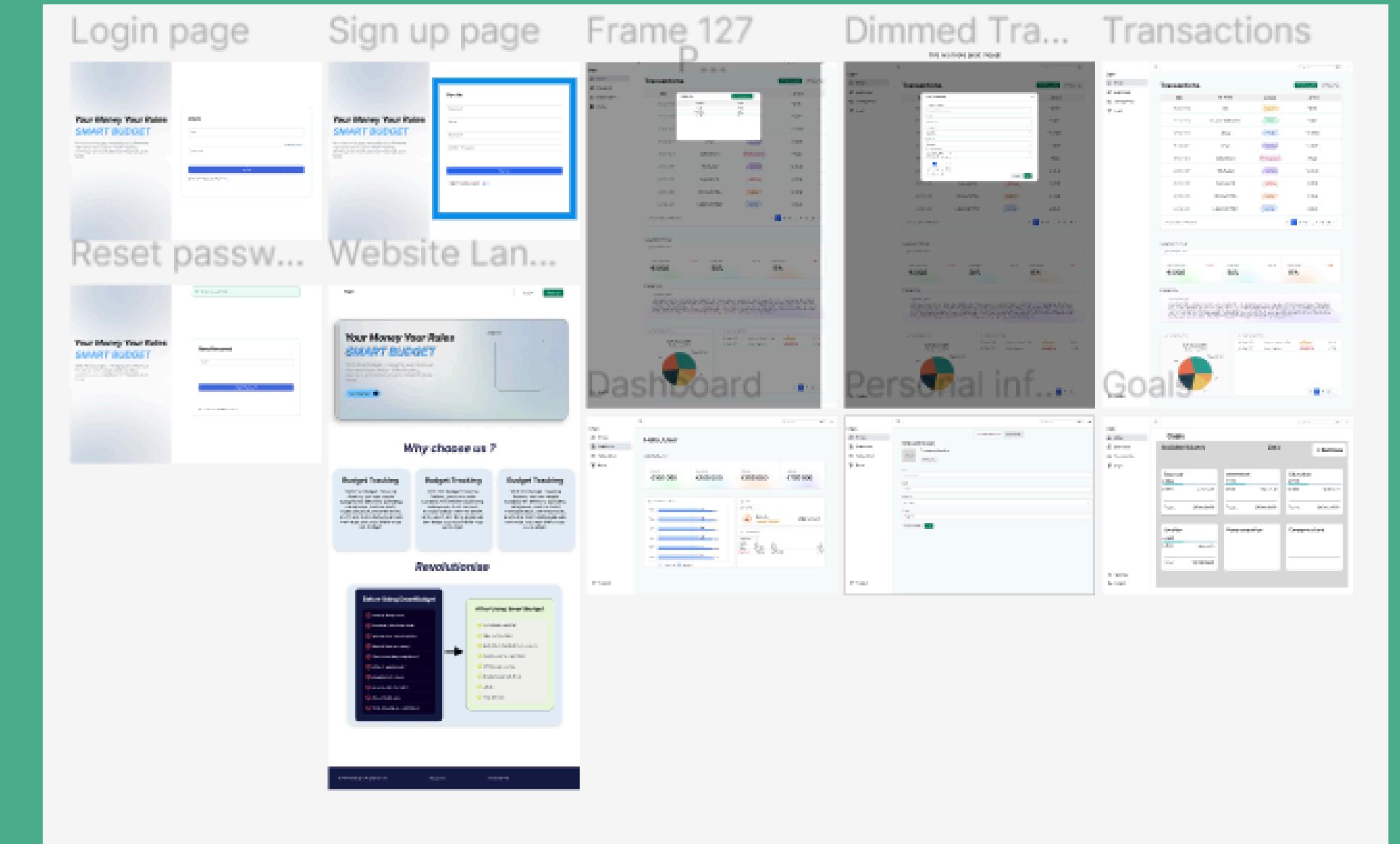
- **Documentation:**

- Highlight progress from Sprint 1 prototype to Sprint 2 development.
- Document team contributions and Sprint ceremonies insights (Daily Scrum, Review, Retrospective).



# → ALIGNMENT WITH SPRINT 1 PROTOTYPE ✨

- Followed Sprint 1 Figma prototype
- Turned wireframes into responsive UI
- Kept same user flow and user stories
- Continued using Sprint 1 backlog
- Built features matching system diagrams



Enhanced version of the Sprint 1 prototype.

# FRONT-END



## • Design (Figma)

- Built UI elements based on the Sprint 1 prototype.
- Create responsive pages for multiple devices.
- Added the missing Landing Page.

## • Front-end coding

- Updated Login and Registration pages and connected them to the backend.
- Implemented navigation between Home, Login, Signup, and Dashboard.
- Added form validation and error handling for better usability.
- Improved dashboard and other UI screens based on Sprint 1 design.



# FRONT END PROGRESS

Sprint 1

Vs

Sprint 2

This section displays 12 wireframe prototypes for a budgeting application, arranged in a 3x4 grid. The prototypes include:

- Logo screen
- Login screen
- Sign-up screen
- Personal Information screen
- Welcome User screen (Dashboard)
- Transactions screen
- New Transaction dialog
- Categories dialog
- Goals screen
- Expenditure Overview screen
- Expense Forecasting screen
- Monthly Likely Spending Forecast screen



This section shows the evolution of the budgeting application's front end:

- User registered successfully message.
- Sign Up screen (SmartBudget, smart@yahoo.com).
- Log In screen (swosti@gmail.com).
- Welcome to your Dashboard!
- Your Money Your Rules SMART BUDGET
- Budget Tracking (With the Budget Tracking feature, you can create budgets for different spending categories, earn fast info, transportation, extramount, and more. Track daily expenses and helps you stay within your set budget.)
- Why choose us?
- Budget Tracking (With the Budget Tracking feature, you can create budgets for different spending categories, earn fast info, transportation, extramount, and more. Track daily expenses and helps you stay within your set budget.)
- Revolutionise

**Before Using SmartBudget**

- Manual, disorganized
- Offline, often inaccurate

**After Using SmartBudget**

- Automated, organized
- Easy, customizable

# Back-End

## Back-end progress

- Implemented secure Signup API (POST /api/signup)
- Implemented Login API with password comparison and JWT
- Added full CRUD operations for users
- Connected MongoDB database using Mongoose
- Added error handling and input validation
- Tested all endpoints in Postman
- Verified data successfully stored in MongoDB

## Technologies Used:

- Node.js – backend runtime
- Express.js – REST API framework
- MongoDB + Mongoose – database
- bcrypt – password hashing
- WT – login authentication
- CORS – frontend communication

# BACK-END PROGRESS

POSTMAN TESTING FOR  
SIGNUP

POST http://localhost:3000/api/signups

Body (JSON)

```
{  
  "username": "bbb",  
  "email": "bbb@gmail.com",  
  "password": "12345678",  
  "confirmPassword": "12345678"  
}
```

201 Created

JSON

```
{"message": "User registered successfully"}
```

STORED SIGNUP IN  
MONGODB

MongoDB Compass - localhost:27017/smartbudget.signups

localhost:27017 > smartbudget > signups

Documents (8)

```
_id: ObjectId('691e37f7ded7bd685f3a1589')  
username : "ajay"  
email : "ajay@yahoo.com"  
password : "$2b$10$6nvajIYHL.9hz1.VRCKJiuff77iu3W6i/mF4SQg/HAj4Kvre67c2"  
createdAt : 2025-11-19T21:34:47.996+00:00  
updatedAt : 2025-11-19T21:34:47.996+00:00  
__v : 0

_id: ObjectId('691e402411dbcecb6decf8d7')  
username : "sur"  
email : "sur@yahoo.com"  
password : "$2b$10$8/1Bb8NCYw2d2tH6cSjgiOK7vMTOIau5ygb0Erv0P9Fb0Brq..Z6"  
createdAt : 2025-11-19T22:09:40.684+00:00  
updatedAt : 2025-11-19T22:09:40.684+00:00  
__v : 0

_id: ObjectId('691ed9e8219f04bf1ae75355')  
username : "bbb"  
email : "bbb@gmail.com"  
password : "$2b$10$EHazNPz7cE6XXdeckQsek0xUxFpC3RR4JUnT5y.YCPEInxSUNpTxG"  
createdAt : 2025-11-20T09:05:44.557+00:00  
updatedAt : 2025-11-20T09:05:44.557+00:00  
__v : 0
```

LOGIN TEST USING  
POSTMAN

POST http://localhost:3000/api/login

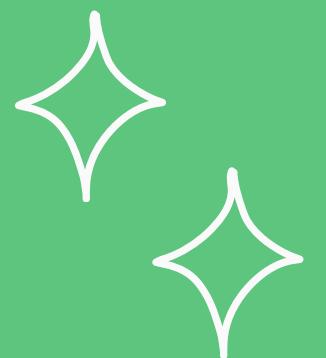
Body (JSON)

```
{"email": "bbb@gmail.com",  
 "password": "12345678"}
```

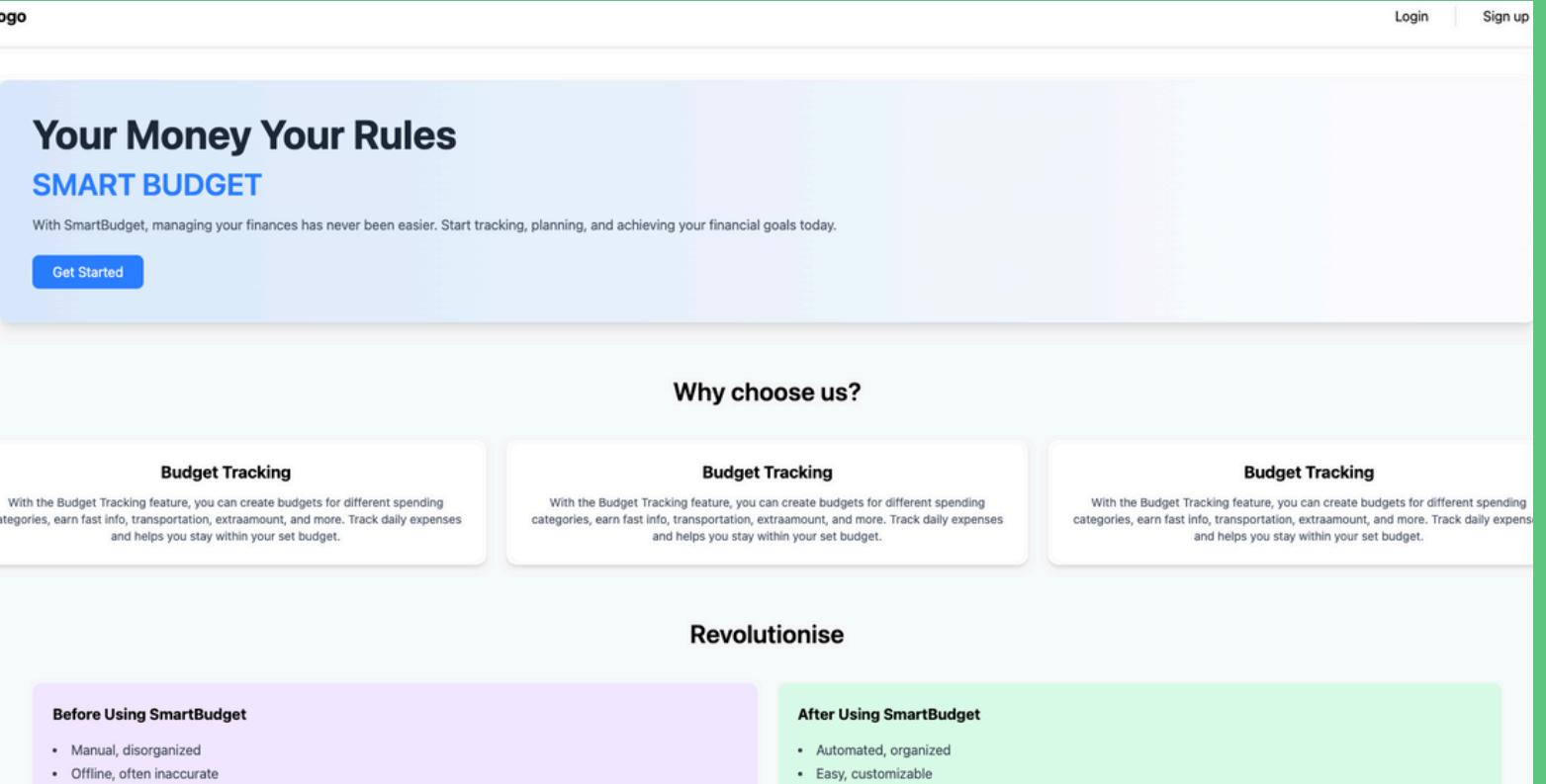
200 OK

JSON

```
{"message": "Login successful",  
 "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.  
 eyJpZCI6IjY5MWV0K0U4MjE5ZjA0YmYxYWU3NTM1NSIsImVtYWlsIjoiYmJiQGdtYWlsLm  
 NvbSIsImlhhdCI6MTC2MzYyOTY1MCwiZXhwIjoxNzNjMzMjUwfQ.  
 MlaGFEc7UF0sZBcXd8HzAjGeN_NMCgZH6v2cfMSqgq0",  
 "user": {  
   "username": "bbb",  
   "email": "bbb@gmail.com"}}
```

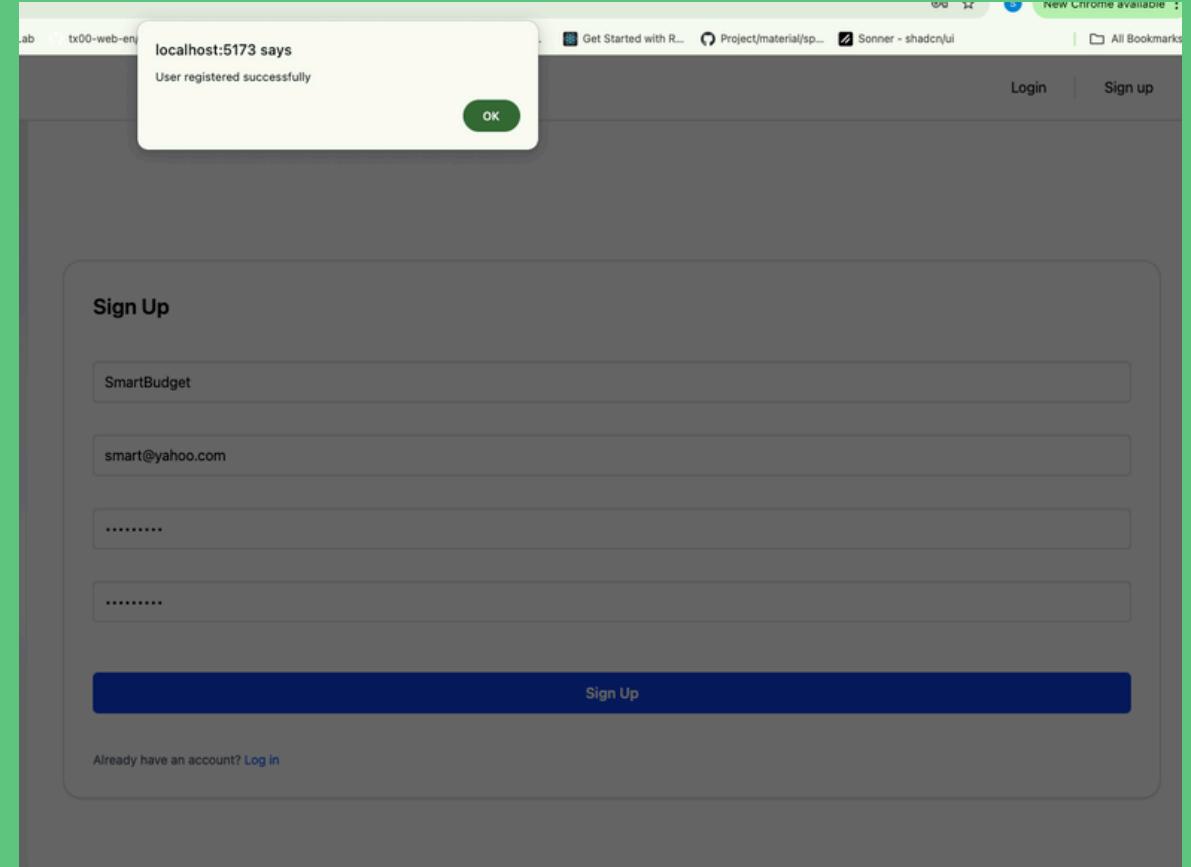


# HOME



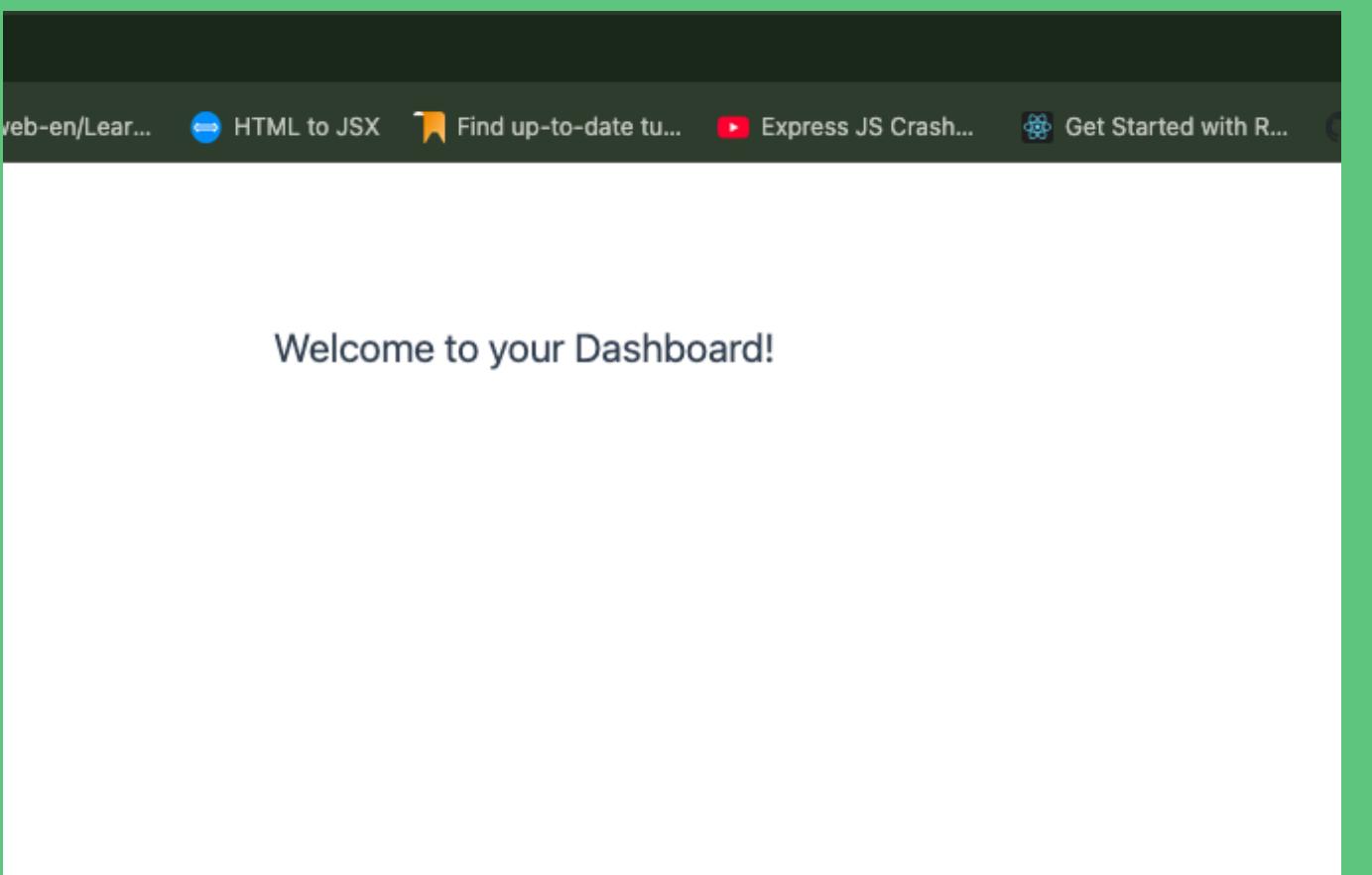
The screenshot shows the SmartBudget home page. At the top, there's a navigation bar with 'Login' and 'Sign up' buttons. The main heading 'Your Money Your Rules' is followed by a section titled 'SMART BUDGET'. Below it, a sub-section 'With SmartBudget, managing your finances has never been easier. Start tracking, planning, and achieving your financial goals today.' includes a 'Get Started' button. A large section titled 'Why choose us?' contains three sub-sections, each with a title 'Budget Tracking' and a brief description. Below this is a section titled 'Revolutionise' comparing 'Before Using SmartBudget' (manual, disorganized, offline) and 'After Using SmartBudget' (automated, organized, easy, customizable).

# SIGNUP



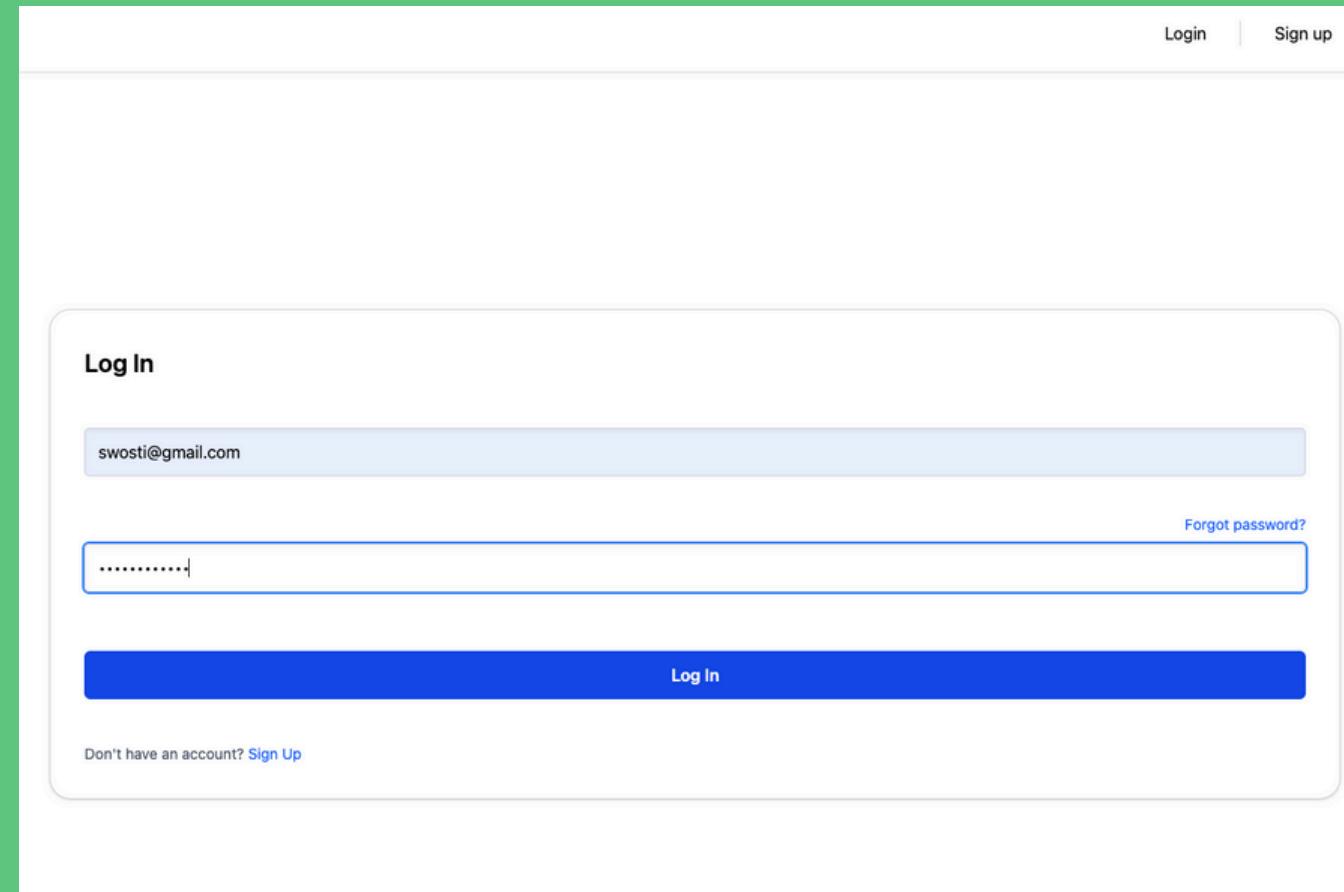
The screenshot shows the SmartBudget sign-up page. It features a 'Sign Up' form with fields for 'SmartBudget' (username), 'smart@yahoo.com' (email), and two password fields. A 'Sign Up' button is at the bottom. A success message 'User registered successfully' is displayed in a modal window.

# DASHBOARD



The screenshot shows the SmartBudget dashboard. At the top, there's a navigation bar with links like 'HTML to JSX', 'Find up-to-date tu...', 'Express JS Crash...', and 'Get Started with R...'. The main area displays a welcome message 'Welcome to your Dashboard!'.

# LOGIN



The screenshot shows the SmartBudget log-in page. It features a 'Log In' form with fields for 'Email' (swosti@gmail.com) and 'Password' (represented by a masked input). A 'Forgot password?' link is above the password field, and a 'Log In' button is at the bottom. A 'Don't have an account? Sign Up' link is at the bottom of the form.



# SPRINT CEREMONY INSIGHTS ↗

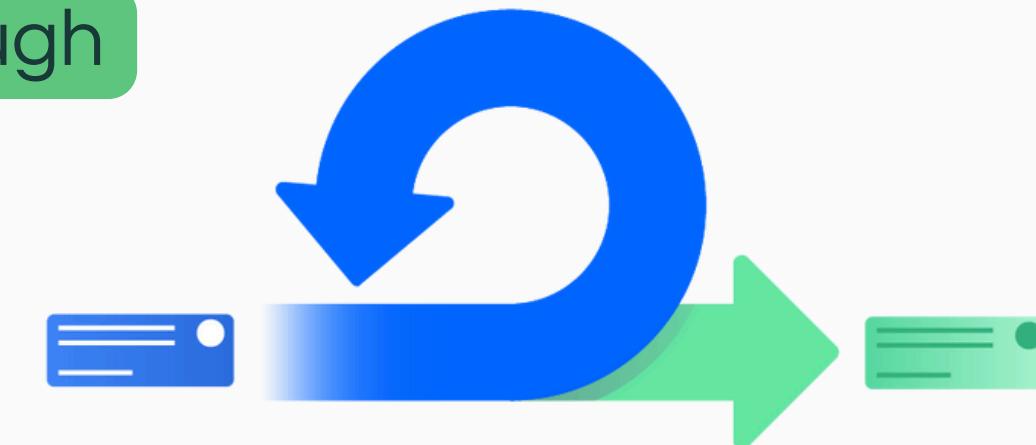
4Ls:

Liked: Successful code implementation & Improved collaboration

Learned: Gained practical coding experiences, better understanding of database schemas

Lacked: Postponed tasks & limited time for thorough testings.

Longed for: More detailed task breakdown with clear ownership



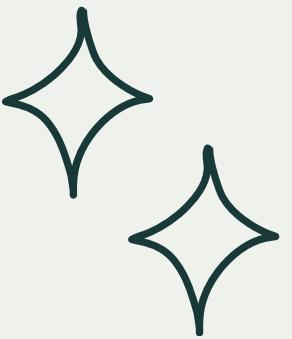
# NEXT SPRINT



Complete every features, with the focus on building the dashboard, adding and viewing transactions, integrating AI back-end with front-end, and enabling email verification for user registration.



# TEAM CONTRIBUTIONS



## Swostika Lama

Product Owner/Development Team

Designed product backlogs, built layout for authentication pages and developed secure user management backend, integrated frontend with backend for seamless flow.

## Puntawat Subhamani

Scrum Master/UI Designer/Development Team

Designed product backlog and assign its priority, enhanced UI Sign up, page. Developed backend code for AI functionality .

## Chandina Nilukshi

UI Designer/Development Team

Designed the UI for Goal page, written front-end for Transaction page, Category Reset password pages and enhanced UI for this pages.

## Jiya Jameela

UI Designer/Development Team

Designed the UI for Transaction page, Category and New Transaction popups, and the landing page. Wrote the UI for Login page.



# CONCLUSION

So Sprint 2, we turned the Figma prototype into a responsive, functional app. Front-end features include Login, Signup, Dashboard, navigation, and form validation. Back-end development added secure authentication, CRUD operations, and MongoDB integration, and AI features. Sprint 2 successfully achieved its goals and prepared the app for the next development phase.



# THANK you

Any Questions?

