Sprint 2 Plan
Product Name: Roommate Expense Tracker
Team Name: RET
Sprint Completion Date: July 13, 2025
Revision Number: 1
Revision Date: July 6, 2025

Goal:
Enable seamless collaboration within shared households through complete CRUD operations for users and expenses.

Task Listing by User Story:

User Story 1:
"As the head of house, I want to create a household so that I can manage shared expenses with my roommates."

- Design household schema and validation rules (2 hours)
- Create RESTful endpoint for household creation (2 hours)
- Integrate household create form into frontend (2 hours)
  Total for User Story 1: 6 hours

User Story 2:
"As the head of house, I want to read roommate information so I can manage members."

- Add roommate model and schema roles (1.5 hours)
- Create RESTful endpoint to list/add/edit roommates (2.5 hours)
- Build roommate management frontend (2 hours)
  Total for User Story 2: 6 hours

User Story 3:
"As a user, I want to update an expense so I can correct or adjust details."

- Create expense schema and validation (1.5 hours)
- Implement expense update endpoint (2 hours)
- Add frontend logic for expense update (2.5 hours)
  Total for User Story 3: 6 hours

User Story 4:
"As a user, I want to delete an expense so that I can remove incorrect entries."

- Implement expense delete endpoint (1.5 hours)
- Add frontend functionality for deleting expenses (1.5 hours)
- Test full CRUD flow (2 hours)
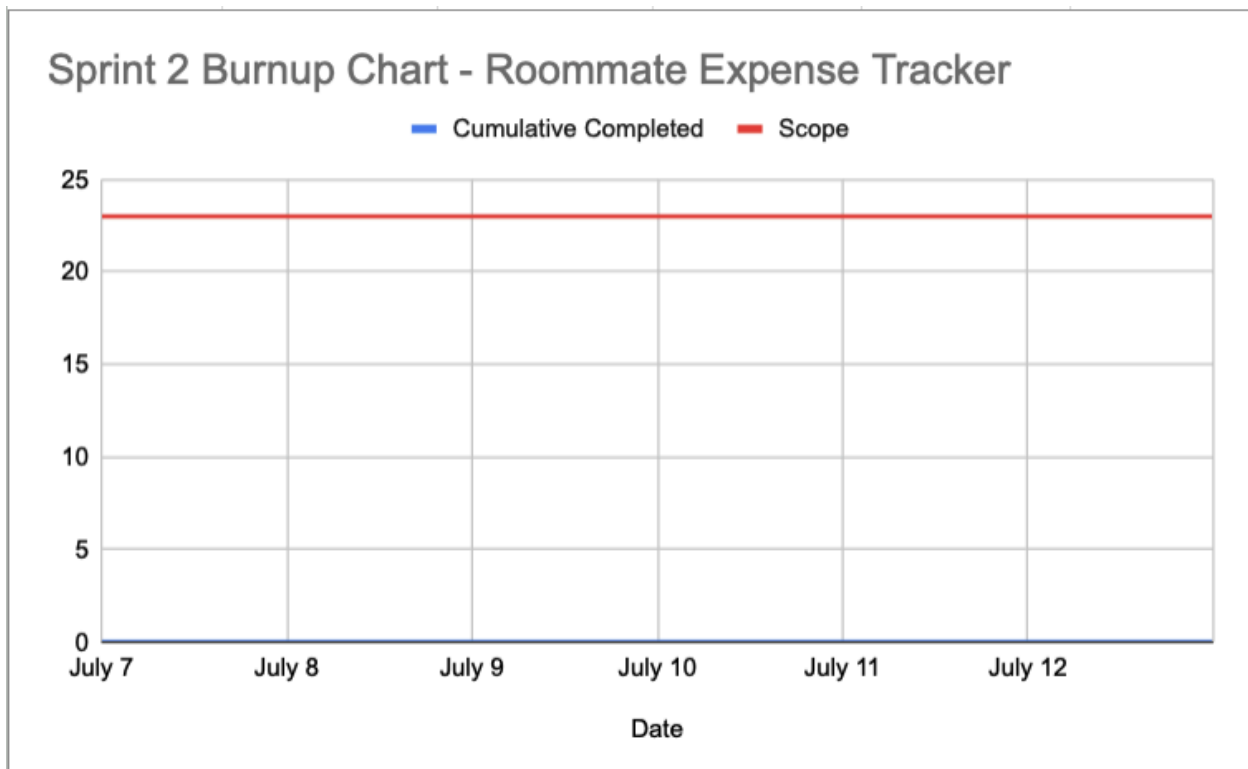 **Total for User Story 4: 5 hours**

Team Roles:

- Nilufer: Scrum master & Developer (Users Endpoint)
- Josh: Developer (Houses Endpoint)
- Jayden: Developer (House Member Endpoint)
- Riddhi: Developer (Socket.IO Integration)
- Liya: Frontend Developer (Roommate Management Page)
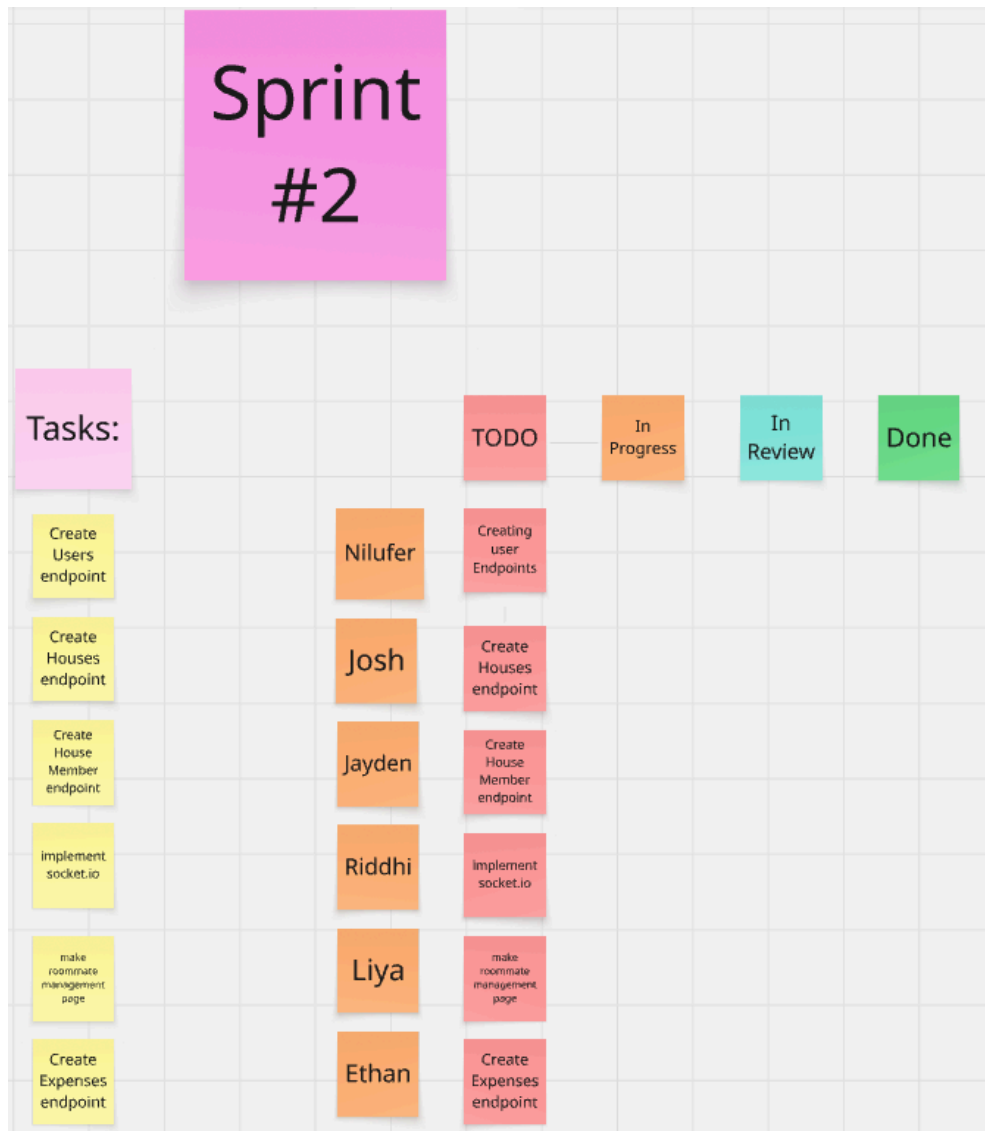- Ethan: Developer (Expenses Endpoint)

Initial Task Assignment:

- Nilufer: User Story 1 - Create Users endpoint
- Josh: User Story 1 - Create Houses endpoint
- Jayden: User Story 2 - Create House Member endpoint
- Riddhi: Spike Task - Implement socket.io
- Liya: User Story 2 - Make roommate management page
- Ethan: User Story 3 & 4 - Create Expenses endpoint

Initial Burnup Chart:

Initial Scrum Board:

Columns include:

- User Stories
- Tasks Not Started
- Tasks In Progress
- Tasks Completed

Scrum Times:

- Tuesday 3:10 PM (TA present)
- Wednesday 12:00 PM
- Friday 12:50 PM

Spikes:

- Cost splitting logic: custom vs. even splits, rounding prevention
- Real-time updates: Supabase Realtime vs. custom WebSocket via Socket.IO

These spike insights will influence the schema design and real-time sync capabilities in future sprints.

Notes:

- Frontend forms will use dummy data during initial UI development