MICHIGAN STATE UNIVERSITY

Alpha Presentation

Member-To-Member Payments with Blockchain Settlement

The Capstone Experience

Team MSUFCU

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From Students…
…to Professionals

Project Overview

Sponsor Overview

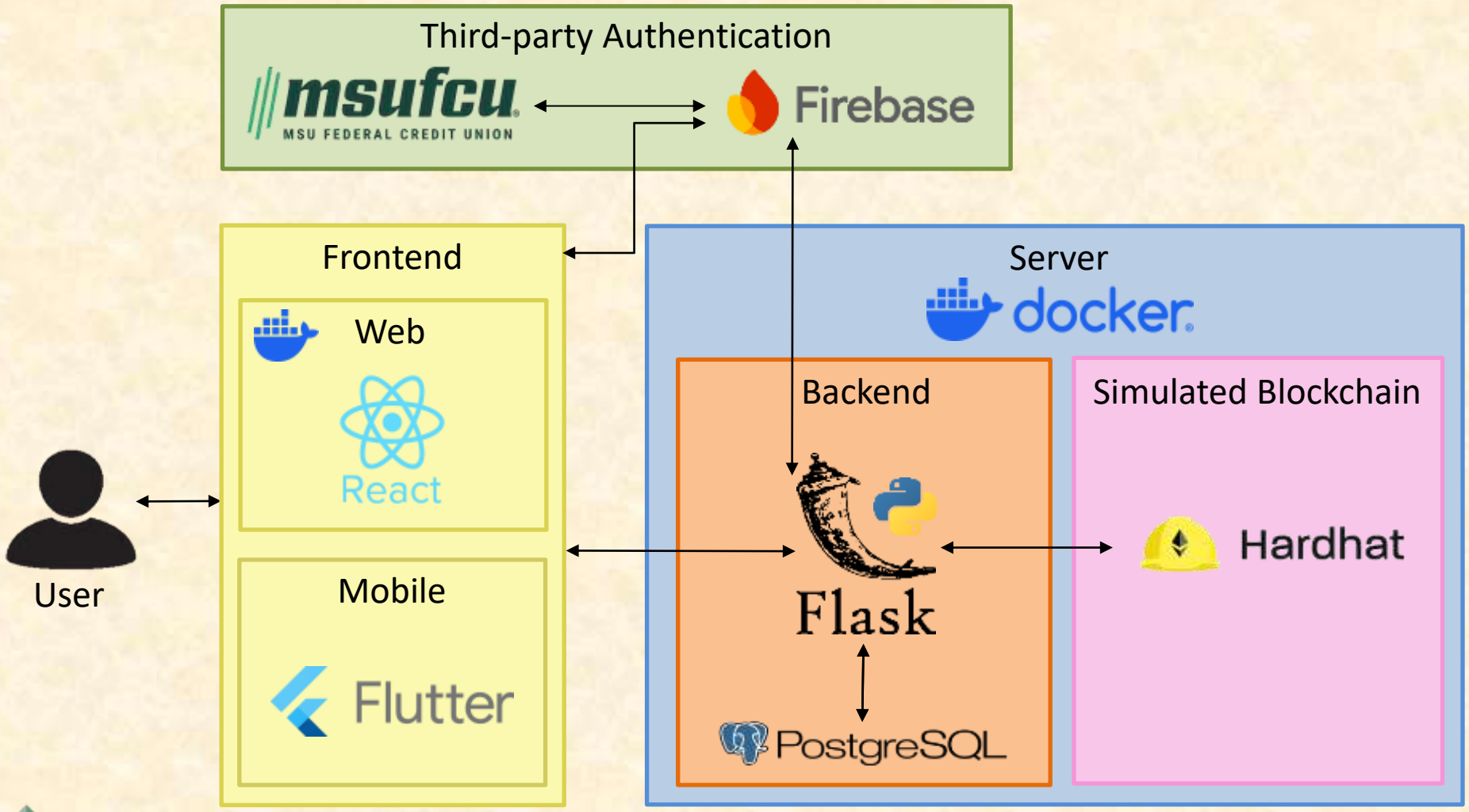
- Largest University-Affiliated Credit Union
- Banking with a Community Focus



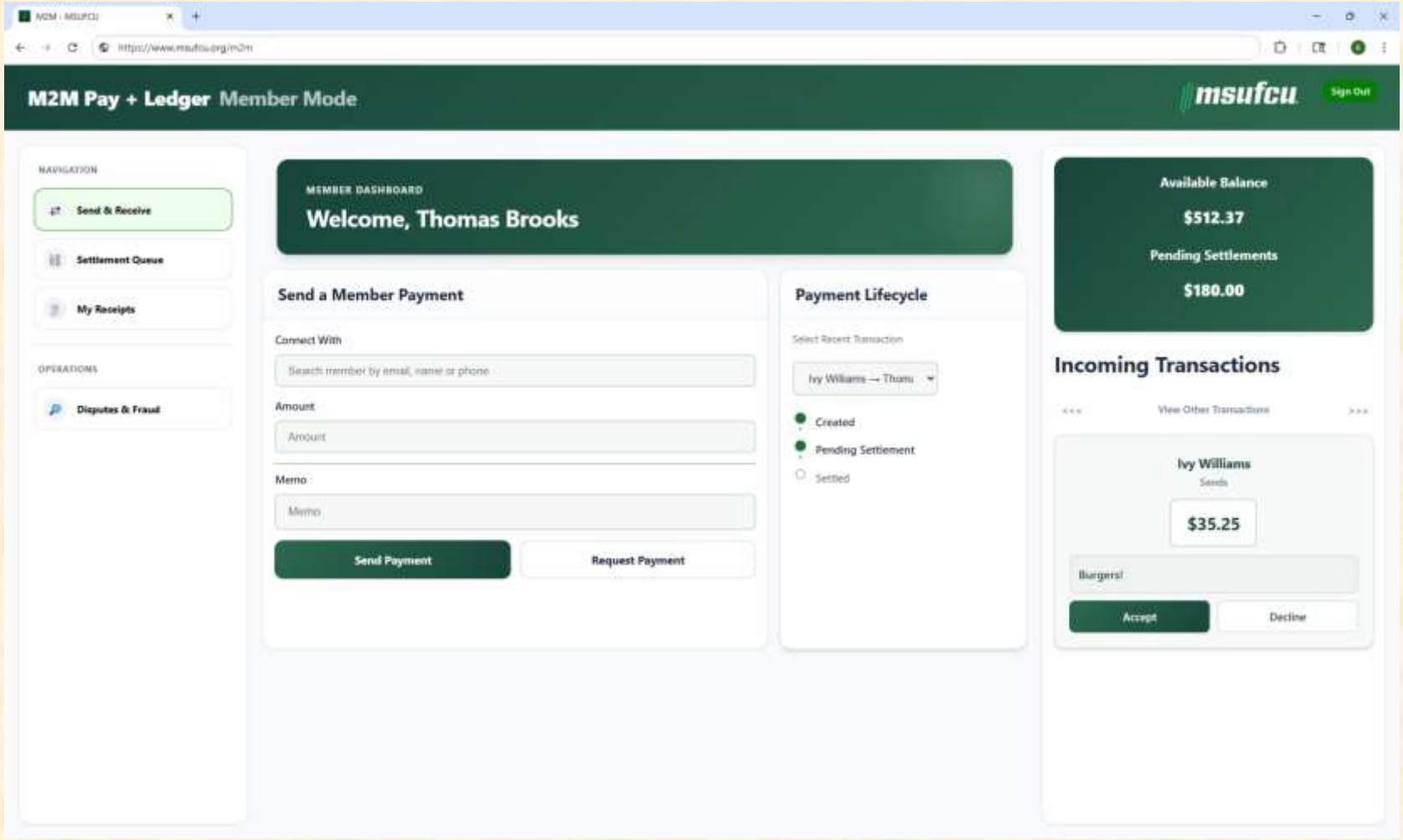
Functional Specifications

- Problem – Logs are Mutable and Lack Visibility
- Solution – M2M Payments with Immutable Blockchain Settlements

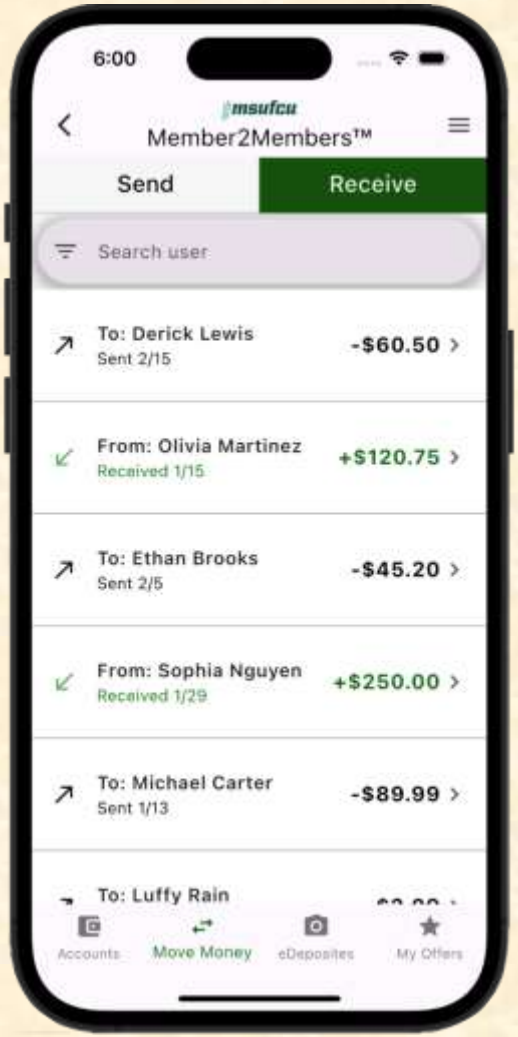
System Architecture



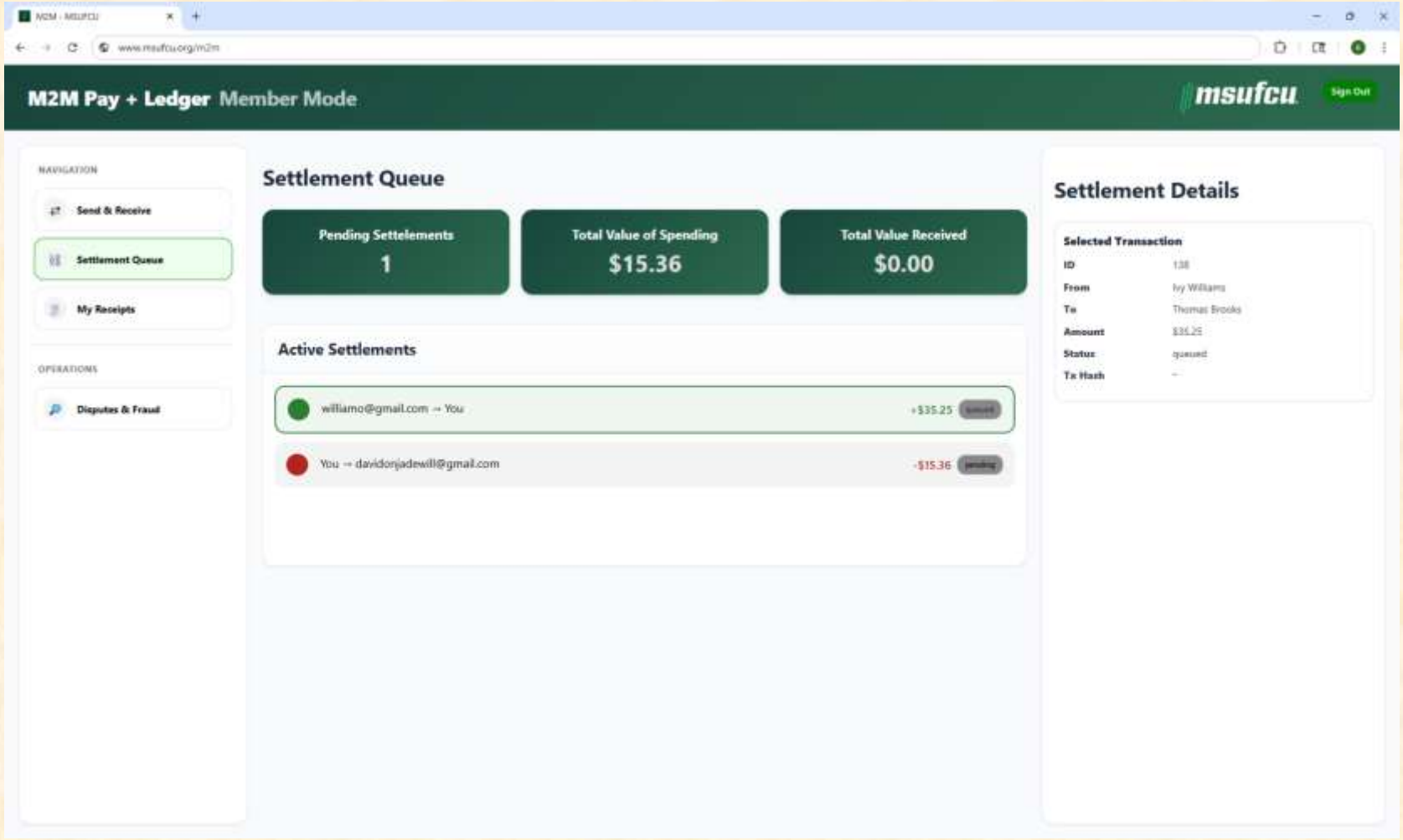
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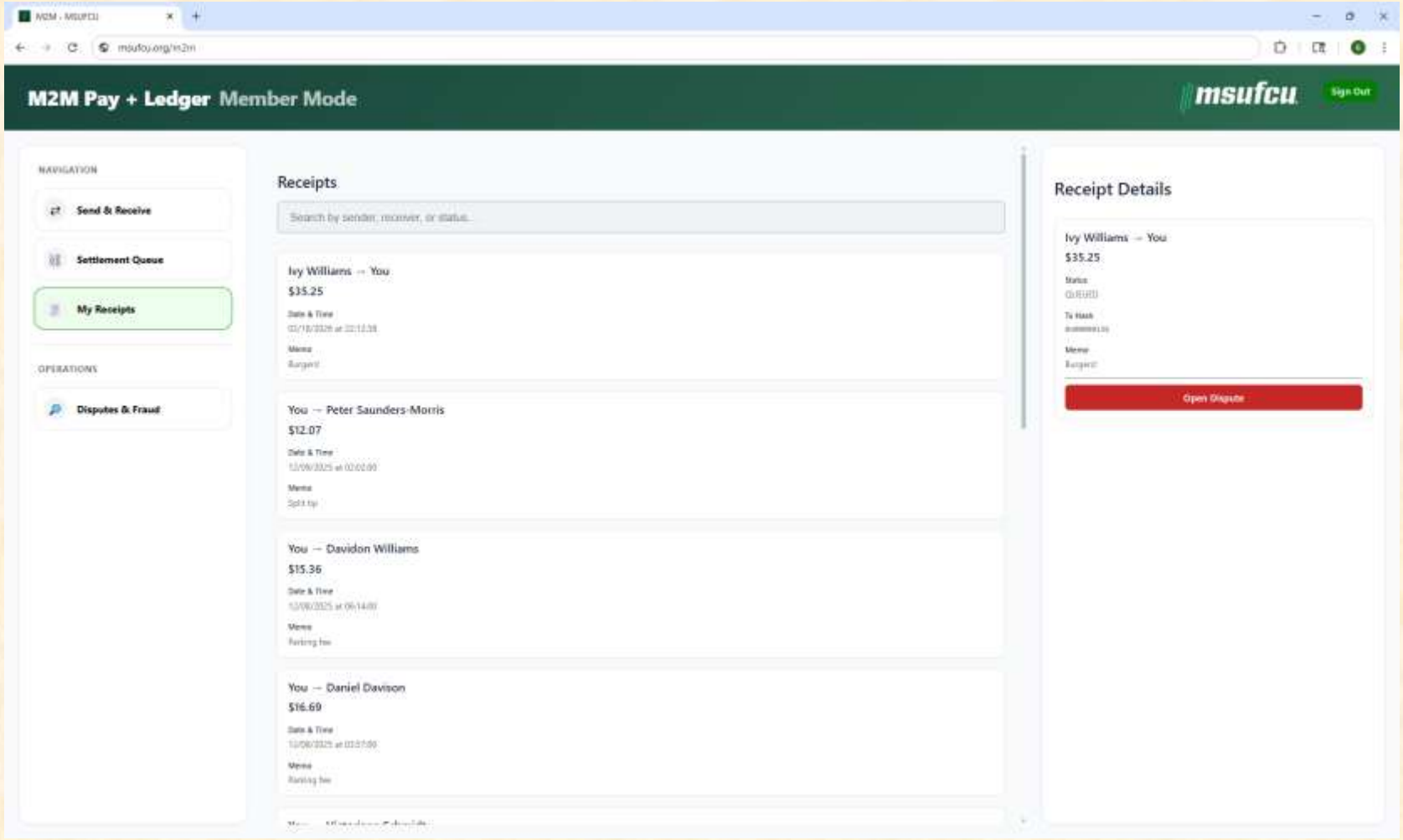
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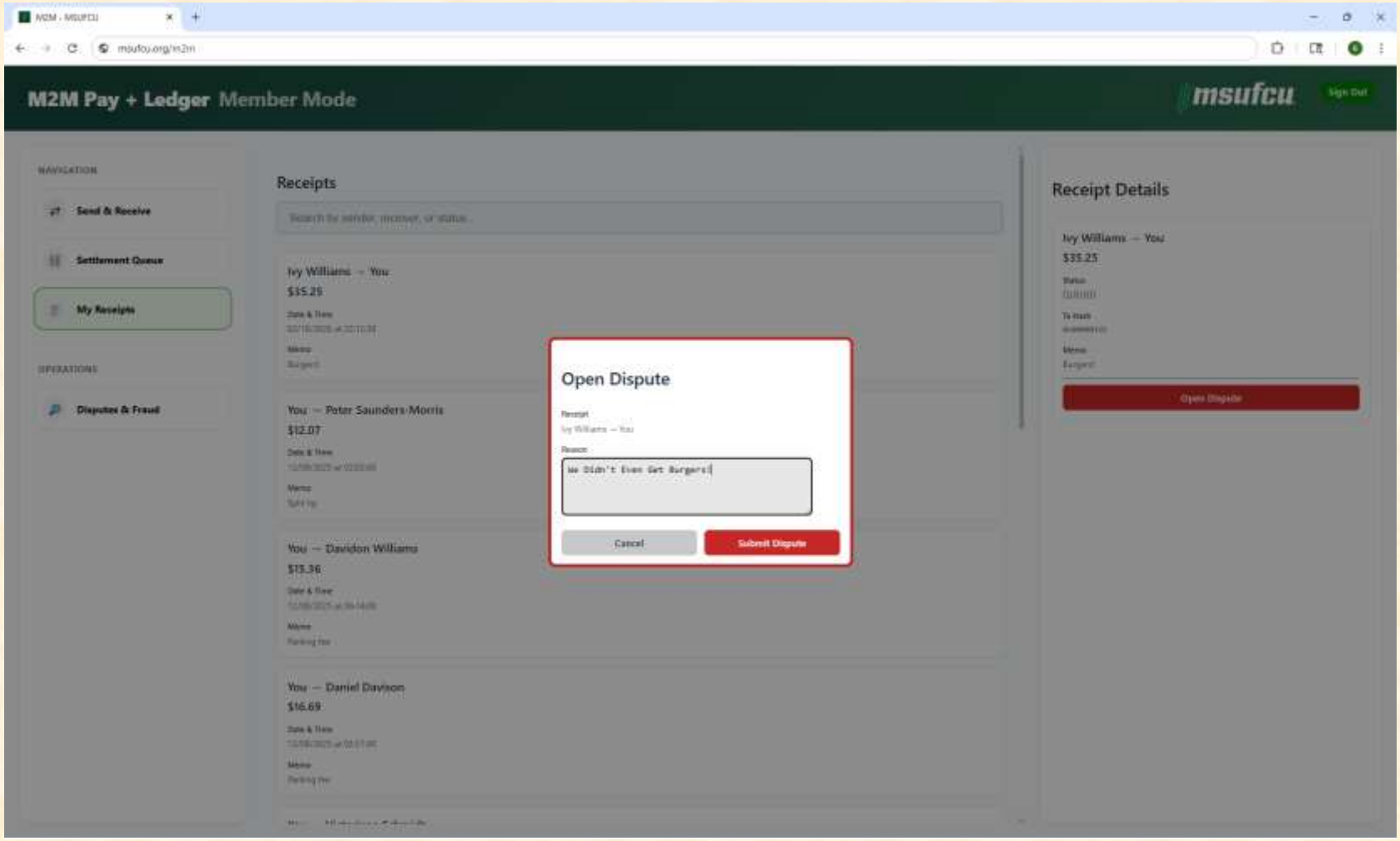
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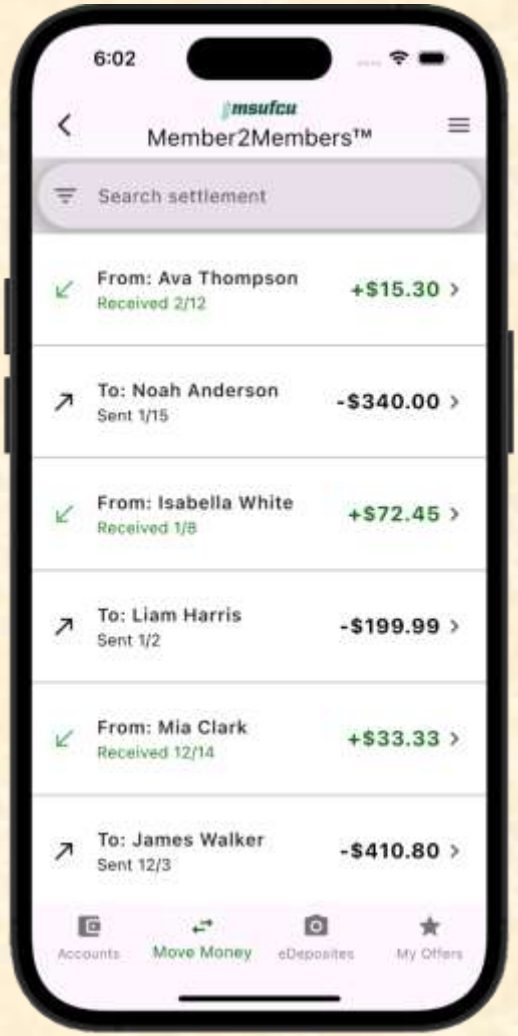
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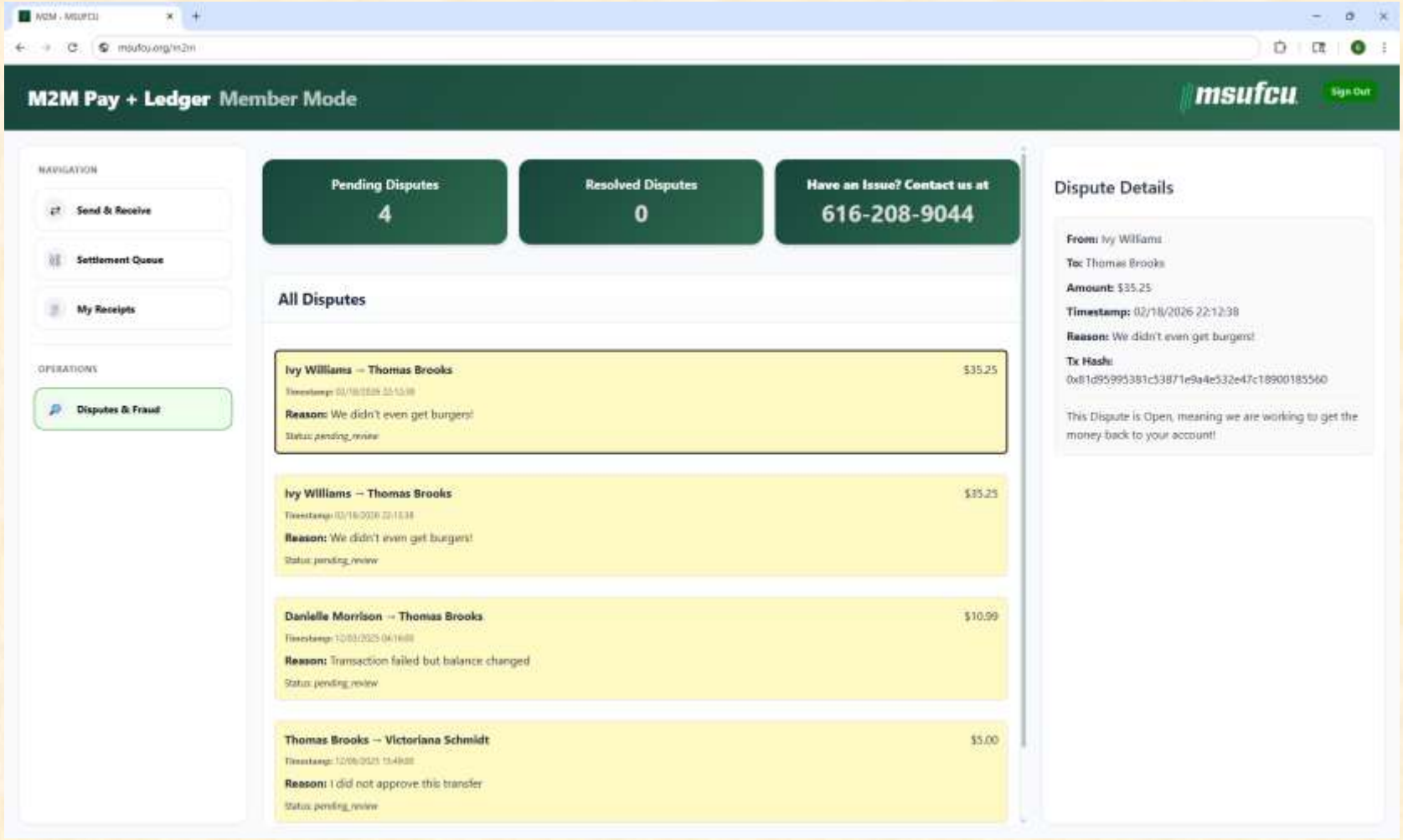
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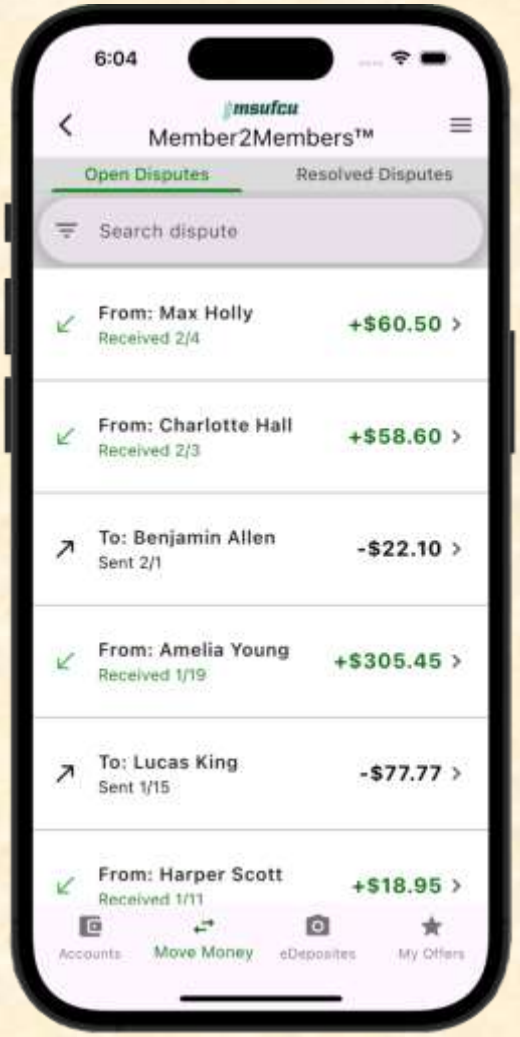
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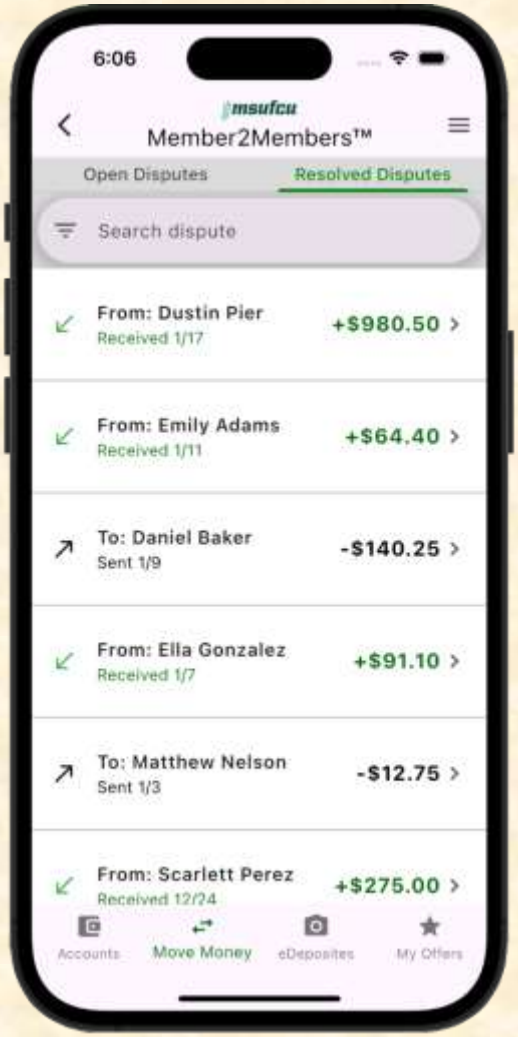


User | Disputes

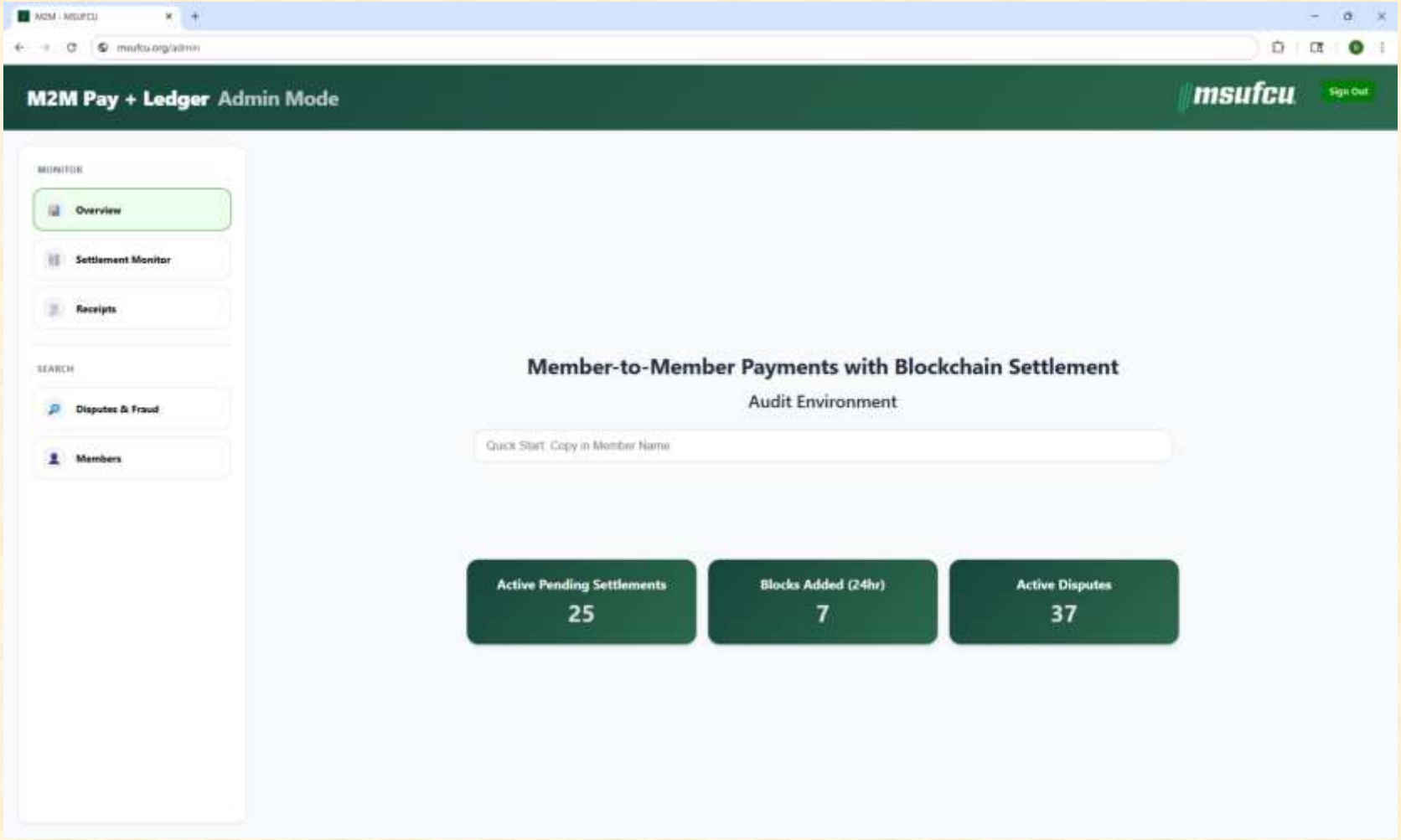


User | Disputes

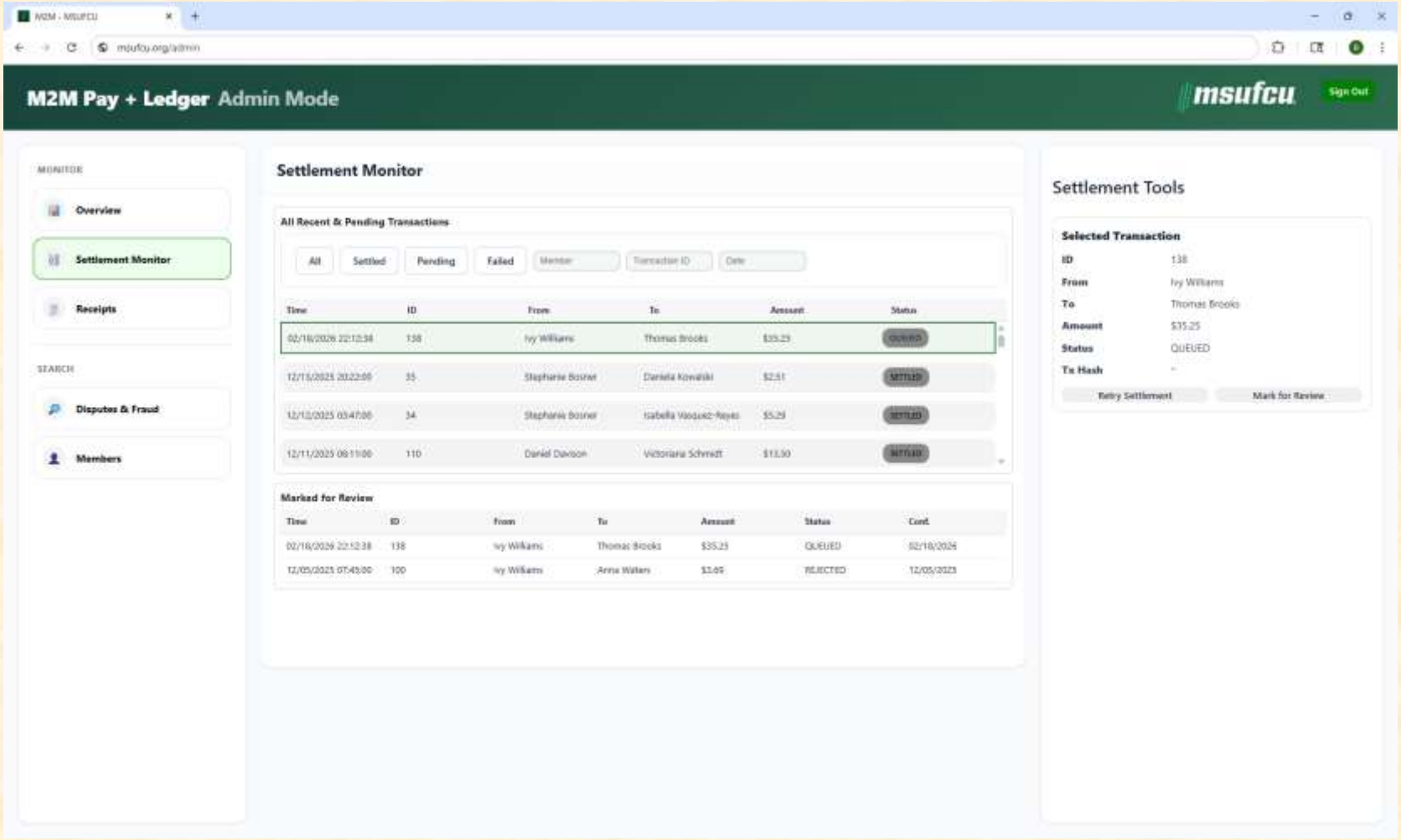




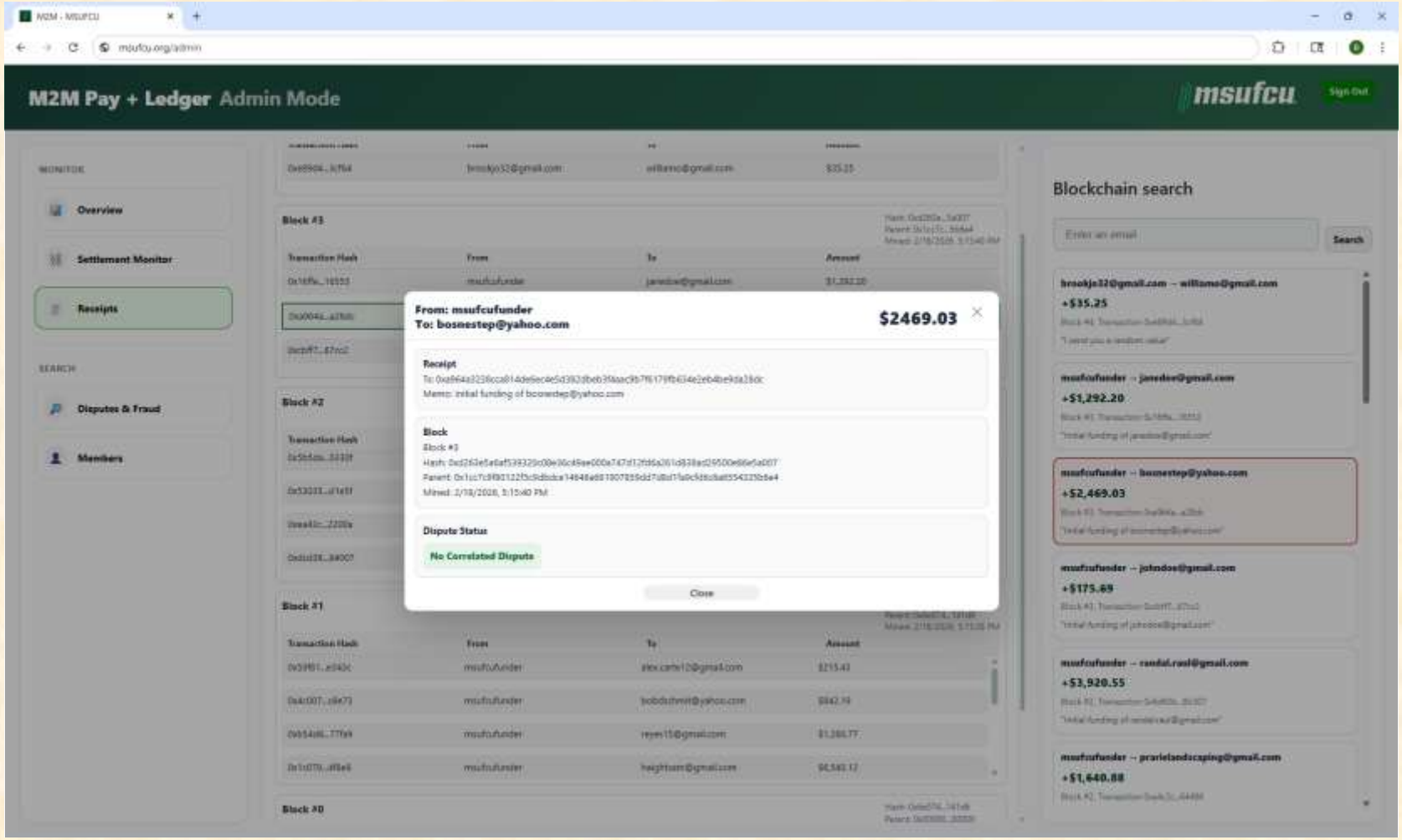
Admin | Overview



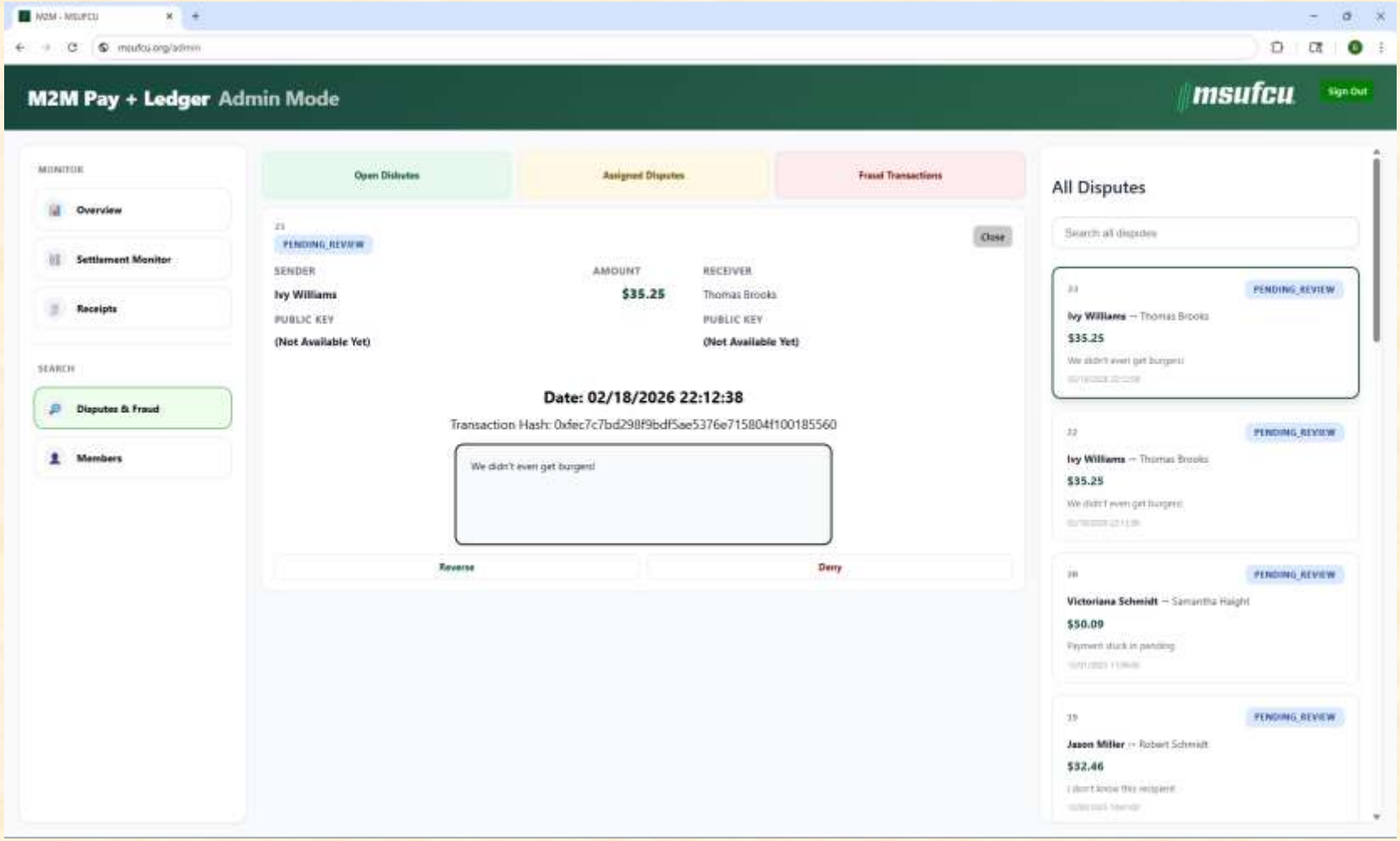
Admin | Settlement Monitor



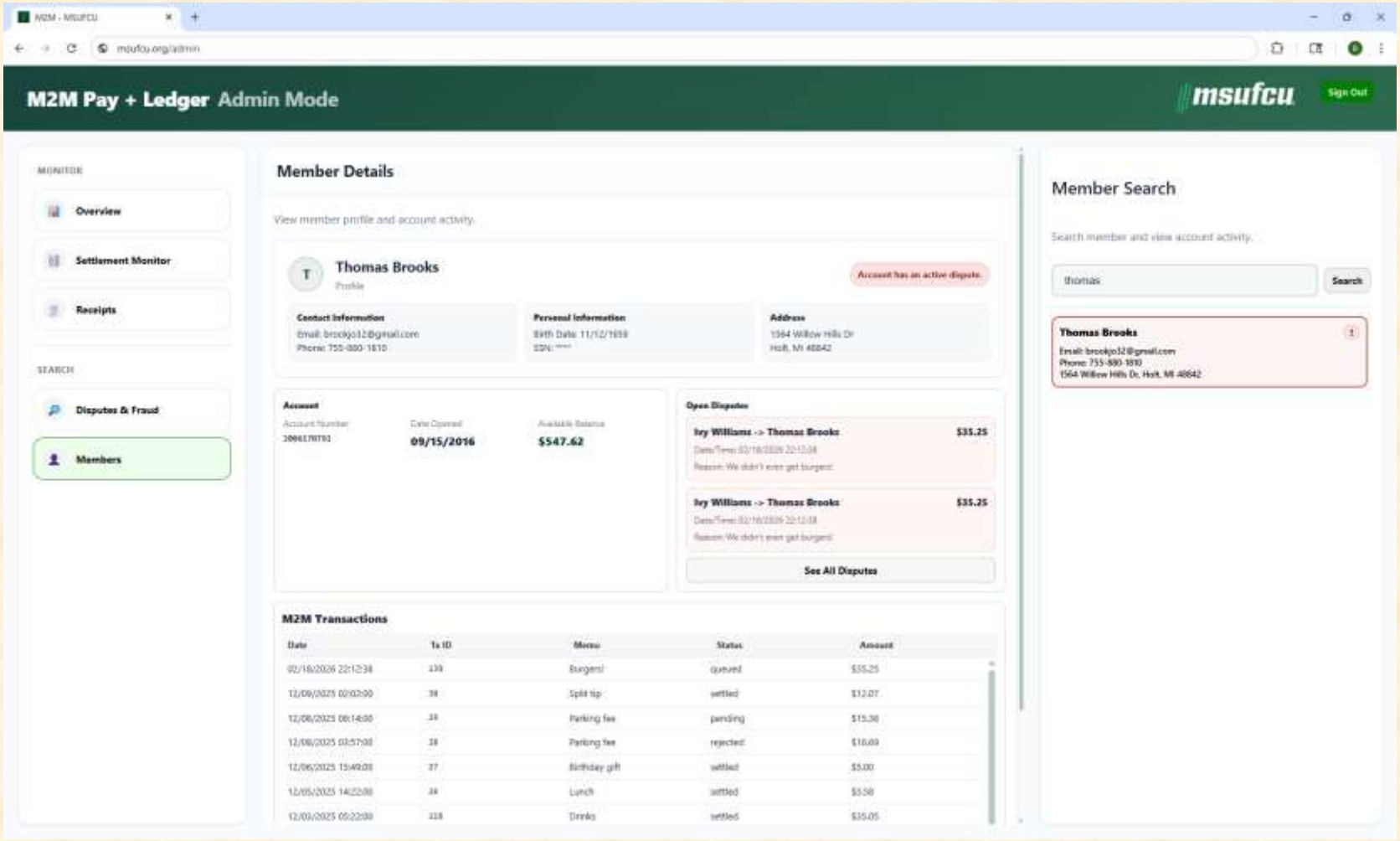
Admin | Receipts Tab



Admin | Dispute Tab



Admin | Member Search Page



What's left to do?

- Logically-Separated Admin Login
- Deploy Project
- Improve Search and Filtering for Admins
- Member Sign-Up
- Administrative Dispute Resolution Workflow
  - Messaging Between Admin and Member
  - Admin-Initiated Transaction Reversals
- Retry Blockchain Settlement

Questions?

