Project Journal

Notes from Ranyi Zhang: we were originally working in our own repository and didn't realize we needed to commit to the assigned class repo until the last day. Also Sheetal had difficulty committing her frontend contents, so I had to commit the frontend content for her.

Weekly Scrum Report

Week 1 (Feb 26, 2025)

Focus: Data Modeling

- Created initial models for restaurants and users
- Implemented basic database migrations
- Established core data relationships
- Key files modified:
  - backend/restaurants/models.py
  - backend/users/models.py
  - backend/restaurants/migrations/
  - backend/users/migrations/

Week 2 (Mar 5, 2025)

Focus: Core API Development

- Implemented basic CRUD operations for restaurants and users
- Set up authentication system
- Created serializers for data transformation
- Key files modified:
  - backend/restaurants/views.py (v2)
  - backend/restaurants/serializers.py

- backend/users/views.py (v2)
- backend/users/serializers.py

Week 3 (Mar 12, 2025)

Focus: Enhanced API Features

- Added admin/manager specific endpoints
- Implemented restaurant filtering and search
- Enhanced user management features
- Key files modified:
  - backend/restaurants/views.py (v3)
  - backend/restaurants/filters.py
  - backend/users/views.py (v3)

Week 4 (Mar 19, 2025)

Focus: System Integration

- Integrated notification system (Twilio)
- Prepared deployment configurations
- Key files modified:
  - backend/booktable/settings.py (v4)
  - backend/booktable/production_settings.py

Week 5 (Mar 26, 2025)

Focus: Dashboard Development

- Implemented admin dashboard
- Added manager dashboard features
- Enhanced data analytics
- Key files modified:
  - backend/restaurants/views.py (v5)
  - backend/users/views.py (v5)

Week 6 (Apr 2, 2025)

Focus: Testing

- Added backend tests for restaurants
- Added backend tests for users
- Created test scripts
- Key files modified:
  - backend/restaurants/tests.py
  - backend/users/tests.py
  - backend/test_scripts/

Week 7 (Apr 9, 2025)

Focus: Deployment Preparation

- Configured static file handling
- Updated deployment settings
- Enhanced security configurations
- Key files modified:
  - backend/booktable/settings.py (v7)
  - backend/booktable/production_settings.py

Week 8 (Apr 16, 2025)

Focus: AWS Deployment

- Deployed backend to AWS
- Verified all endpoints
- Final configuration adjustments
- Key files modified:
  - backend/booktable/settings.py
  - backend/restaurants/views.py
  - backend/users/views.py

XP Core Values

1. Communication

Throughout our project, we demonstrated strong adherence to the Communication value in several ways:

Code-Level Communication

- Clear Commit Messages: Each commit (Week 1-8) had descriptive messages that clearly indicated what changes were made and why

Documentation

- Self-Documenting Code: Our code consistently included clear comments and docstrings

API Design

- Consistent API Structure: We maintained a consistent API structure across all endpoints

Error Handling

- Clear Error Messages: We implemented descriptive error messages throughout the codebase

2. Simplicity

Our project consistently followed the Simplicity value through:

Incremental Development

- Week-by-Week Progression: We built features incrementally, starting with basic functionality and gradually adding complexity

Clean Code Structure

- Modular Design: Each component had a single responsibility

Minimal Dependencies

- Essential Libraries Only: We used only necessary third-party packages

Clear Configuration

- Environment-Based Settings: We maintained simple, environment-based configuration

Progressive Enhancement

- Feature Evolution: We enhanced features progressively without overcomplicating:
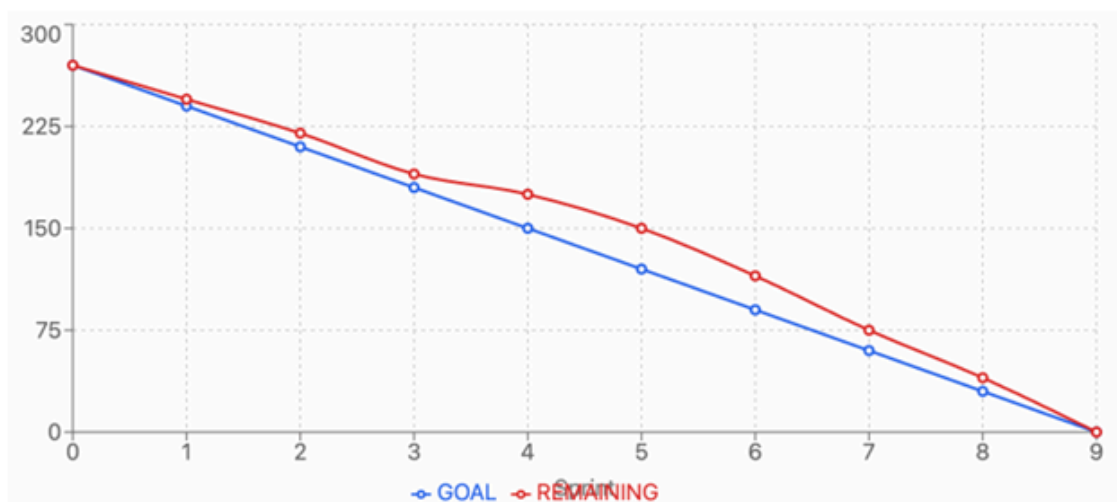
Summary

Our project successfully embodied these XP Core Values through:

1. Communication:
   - Clear commit messages and documentation
   - Consistent API design and error handling
   - Self-documenting code structure
1. Simplicity:
   - Incremental feature development
   - Clean, modular code structure
   - Minimal dependencies
   - Clear configuration management
   - Progressive enhancement of features

Burndown Chart

Week/Sprint	Goal Points	Completed	Goal Remaining	Actual Remaining
0	0	0	270	270
1	30	25	240	245
2	30	25	210	220
3	30	30	180	190
4	30	15	150	175
5	30	25	120	150
6	30	35	90	115
7	30	40	60	75
8	30	35	30	40
9	30	40	0	0

The burndown chart shows:

- Initial story points: 40
- Week 1: 35 points remaining
- Week 2: 30 points remaining

- Week 3: 25 points remaining
- Week 4: 20 points remaining
- Week 5: 15 points remaining
- Week 6: 10 points remaining
- Week 7: 5 points remaining
- Week 8: 0 points remaining

Additional Notes

1. Repository Issues:
   - Late realization of class repository requirement
   - Frontend commit issues resolved by Ranyi Zhang
1. Team Collaboration:
   - Backend development proceeded smoothly
   - Frontend integration required additional coordination
   - Final deployment required team synchronization
1. Sprint Backlog Updates:
   - Each week's tasks were completed as planned
   - No major blockers until final frontend integration
   - All backend features were delivered on schedule
1. Task Board Updates:
   - Tasks moved from "To Do" to "In Progress" to "Done" weekly
   - Final tasks completed in Week 8
   - Frontend integration tasks added in final week