



Project Status report

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Community & UN SDG(s):	Community: Regina Humane Society (RHS), Organizations Receiving Food from RHS, and Suppliers UN SDG Goals: Goal 2: Zero Hunger – Ensuring food is distributed efficiently to those in need. Goal 12: Responsible Consumption & Production – Reducing food waste and improving how resources are managed.
MVP #1	MVP 3: Structured Reporting & Inventory Management (Final Project Completion)
Sprint cycle dates:	Sprint Start: March 24, 2025 Sprint End: April 06, 2025

Project Name	FurFeast
Blurb	FurFeast is a digital food donation management system for the Regina Humane Society and its partner organizations. The project focuses on digitizing manual processes for food requests, donation tracking, inventory management, and reporting, transforming what was once a tedious manual workflow into an efficient digital platform.
For Week Ending	April 07, 2025
Project Status	Green
Status Description	The project is on track and all final sprint objectives were met. All core features have been implemented and integrated, and the team is now focusing on final polish, documentation, and handover preparations. The system is stable and ready for deployment, marking a successful completion of the project scope.

Activities—During the past sprint cycle

- **UI Integration:** Integrated the user interface for critical modules including user login, food request submission forms, approval workflows, and inventory view dashboards. This completes the end-to-end linkage between frontend forms and backend logic for all user types (super admin, admin, community organizations, and suppliers).
- **Form Enhancements:** Implemented thorough input validation on all forms, and applied form field restrictions where appropriate to prevent errors (e.g., disallowing negative quantities). These improvements enhance user experience and reliability during data entry.
- **Dashboard Implementation:** Completed role-based dashboards for all users—Admins, Suppliers, and Community Organizations. Upon login, users are directed to a personalized dashboard. For Admins and Super Admins, the dashboard provides a real-time overview of inventory levels, recent food requests, pending/completed approvals, and includes a Low-Stock Widget that flags items below set thresholds. Suppliers and Community Organizations see summaries of their own activity, making the system intuitive and goal-focused for each user type.
- **Reporting:** Finalized the reporting page with functional data filters and export options. RHS staff can now generate detailed reports on donations, requests, and inventory levels, and easily export this data for external analysis or record-keeping.
- **Inventory Fulfillment Logic:** Connected the inventory management module with the request approval process. When a



request is approved, the system automatically allocates and deducts the appropriate inventory items, ensuring accurate real-time stock tracking.

- **Internal Testing:** Conducted comprehensive internal user testing with team members acting as end-users. This ensured all modules like requests, approvals, inventory updates, alerts, and reporting functioned smoothly in an integrated environment.
- **Document submission:** Finalized and submitted all required documentation, including the formatted conference paper, Project Report and Lessons Learned, Integration of ENSE 805 Concepts in the FurFeast Project, and the final Activity-5 Check-in report.
- **Stakeholder Communication:** We reached out to Rebecca Carson (RHS representative) to schedule a live demo of the completed FurFeast system. While she wasn't available at the proposed time due to family commitments and medical reasons, she was very excited about our progress and requested to meet sometime the following week. To ensure she could still explore the system at her convenience, we also provided her with a recorded demo video showcasing all core features of FurFeast in action.
- **Deliverables Handover:** We've completed and submitted all project deliverables, including the full source code on GitHub, and all supporting documentation.

Project Issues

- No new issues were encountered during this final sprint. All previously identified issues and bugs were resolved, and the project has no outstanding blockers. The team addressed earlier integration challenges from the last check-in, bringing the project to a green status for completion.

Project Changes

- **Data Schema & Workflow Updates:** Updated the application's data schema and process workflows based on feedback from RHS. These changes ensure the system aligns with real-world usage. For example, modifying request fields and inventory categories as suggested by RHS staff to better fit their operational needs.
- **Feature Priority Adjustments:** As we continued working closely with RHS, their evolving feedback helped us identify which features would bring the most immediate value. In response, we adjusted our priorities focusing on things like multi-admin access (so more than one staff member can manage requests), simplifying the request form to make it easier for elderly community members to use, and enhancing the reporting tools for staff. Thanks to flexible planning and clear communication within our team, we were able to integrate these changes smoothly without falling behind schedule.
- **Technology Stack Change - Database Migration:** We originally started building our backend with MySQL, but as the project progressed and the data structures evolved, we realized that switching to MongoDB would better support our needs. MongoDB's flexibility allowed us to easily handle new fields and changing form requirements especially helpful when incorporating feedback from stakeholders. The shift saved us time and effort, reduced friction in development, and made the system more adaptable moving forward.

Activities—Planned for Next Week (Wrap-Up)

- **Final Demo Preparation:** Prepare and deliver the final project demonstration to RHS stakeholders, showcasing all features of FurFeast. This includes a walk-through of the request submission process, approval workflow, inventory tracking, and reporting functionalities in a live environment.
- **Last Bug Fixes:** Perform final bug fixes and refinements based on feedback from the demo and any remaining user testing. Although the system has passed internal tests, the team will promptly address any minor issues or UI improvements



identified during the final review.

- **Final Polish – Frontend & Backend:** We'll be spending time next week giving FurFeast its final touches which includes cleaning up the interface to make it more intuitive and visually polished, while also tidying up the backend code to ensure everything runs smoothly and efficiently. This will help us wrap up with a system that feels both professional and ready to use.
- **Training Materials:** Provide training resources for RHS staff, such as quick reference guides or a short training video. These materials will help onboard RHS team members to the new system, covering how to log in, submit/approve requests, manage inventory, and generate reports.

Reflection

The team successfully delivered all planned MVP features by the end of this final sprint, meeting the project's goals and deadlines. Key challenges during this sprint involved handling complex integration logic across the system (for example, ensuring the inventory updates correctly triggered on request approvals and donation entries). These roadblocks were overcome through effective collaboration and adaptive sprint planning. Team members frequently coordinated to adjust the implementation based on testing results and stakeholder input, which kept development on track.

As a result of these efforts, the project now includes a fully functioning, end-to-end system that is ready for providing its services to the Regina Humane Society. FurFeast demonstrates a practical and impactful solution that addresses RHS's food donation management needs. The system is not only a success for our immediate community partner, but it also has the potential to expand to other non-profits with similar needs in the future. The team is proud of what has been accomplished and confident that FurFeast will make a positive difference in streamlining RHS's operations and supporting the community.