Nesteo Sprint 4 Presentation

By Marcus Wichelmann, Randy Nguyen, Simon Oyen, Simon Schwierzeck

Division of Labor

Simon Oyen: Frontend, business logic and backend connection

Simon Schwierzeck: Frontend, UI

Randy Nguyen: Frontend, App logic (Sprint 1-3)
               Backend, Data import (Sprint 3-5)

Marcus Wichelmann: Backend

Backend Team

Marcus Wichelmann

Intended Progress

- Finishing nesting box and inspection management APIs
- Image Upload/Download APIs
- Fix integration testing in CI

Accomplishments

- Moved management operations from generic service base to specific service classes
- Finished APIs for nesting box/inspection creation/updating
- Enhanced input validation
- Extended app configuration with settings for image storage location
- Added image upload/download APIs with security checks
- Fixed integration testing in CI by limiting the concurrent execution

Projected Progress

- Razor pages website for user management and other management tasks
- CSV data export

Randy Nguyen

Intended Progress

- Data Import Tool
    - Automatically format CSV, null -> ""
    - Exception handling when "# Eggs = Ja"
    - Mapping Inspection and Nesting Box CSV

Accomplishments

- Method to format csv
- Exception Handling + Total Counts
- Mapping Inspections and Nesting Boxes with Foreign Entities
- Save good records to DB as the csv is read

Projected Progress

- User Inputs Filename and Type
- All or Nothing Import
- Documentation

Front End Team

Simon Oyen

Intended Progress

- POST requests for new nesting boxes and inspections
- Login system
- Displaying data from the backend
- Unit tests, Documentation

Accomplishments

- Implemented a login system
- Finalized GET request system
- Implemented POST requests for nesting boxes
- Documentation

Projected Progress

- Show box on the map and info about boxes from the map
- Create new inspections
- Documentation

Simon Schwierzeck

Intended Progress

- Finishing the screens that display Data
- Changing the new box dialog to fit the workflow
- Localization on more screens

Accomplishments

- Finished some screens
- Localization on more screens
- New box dialog update

Projected Progress

- Finishing all the screens
- Localization everywhere

Progress relative to planning

Backend: `build passing` `last commit today`

Mobile App: `build passing` `last commit today`

Server:

- Everything done as planned

Import:

- Works
- More exception handling required due to bad data quality

- Issues were more complicated than expected
- Remaining issues can now be done relatively fast in sprint 5 due to new knowledge

Problems and Solutions

- **App:** Sorting lists in the app caused exception when sorting for attributes where a box max have no value → added null-check for "last inspection"
- **App:** Noticed we needed more null-checks for other screens where last-inspection-date is used
- **Backend:** Integration tests failed because of concurrent database initialization → Disabled concurrent execution
- **Backend:** Abstracting the entry creation/updating tasks in our CRUD service base class got very complicated → implemented entity-type specific logic instead

Burndown Chart

Frontend

Backend

Burndown Chart Explanations

Frontend:

- Epics for finishing pages should be broken up better

Backend:

- It's hard to split Epics up into smaller issues on the backend side
- Closing of issues is delayed because they were highly related and merging the branch happened lately

Next Sprints Projection - Frontend

Frontend Issues Moved to Sprint 5:

- Show box on map
- Show box from map on list
- Map restructure
- Finalize screens

Frontend Issues Created for Sprint 5:

- Send new Inspection to the backend

Next Sprints Projection - Backend

Backend Issues Moved to Sprint 5:

- None

Backend Issues Created for Sprint 5:

- #31 - User Inputs Filename and Type
- #32 - Log Exceptions. Do not import if exceptions exist.
- #33 - Razor pages website for user management and other management tasks
- #34 - CSV export

Demo