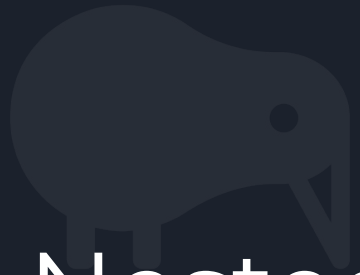


Nesteo Sprint 2 Presentation

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

Backend Team

Marcus Wichelmann

Accomplishments

- Setup of a server instance for testing purposes on *https://vogelberingung-vechta.de*
- Implementation of the necessary CRUD methods in the service layer for retrieving data from the database and return them to the API consumers
  - Very clean and flexible thanks to building a reusable generic CRUD base class
- Building of a tool for easier generation of sample data
- A few code and API documentation improvements

Reflection

- Started working on the major tasks late in the sprint because of personal time management difficulties
- The unit/integration test coverage needs to be improved

Ashley Hendrickson

Accomplishments

- Implemented code to convert a xlsx file to a sql database in python. This program is very program will take the columns and create a table based on the names of the sql file (Unfortunately it will have to be redone in c#)
- Properly install all the right tools with some help from marcus before I wasn't able to get it to run

Reflection

- I’m not formuliar with any of this software or this process. Its extremely hard to work on this project when you don’t know the software and you don't have someone around who knows this stuff the only way I can get help is by asking a questions in slack or trying to set up a meeting and for every small thing become very cumbersome

Front End Team

Simon Oyen

Accomplishments

- Planned and implemented services to send requests to the API
- Implemented wrappers for the services to generate objects from the returned json
- Set up unit-tests for the API-functionalities
- Simplified using the map, added some comfort-features
- Added basic support for the “snackbar” of the app
- Configured what was needed to upload the app to the PlayStore

Reflection

- Worked on too many different things at the same time
- Need to manage time I invest into the project better
- Documentation has to improve

Simon Schwierzeck

Accomplishments

- Finished setting up the basic app-layouts from Sprint 1 for all screens
- Started some polishing
- Improve usability (testing & using different Widgets for data input)
- Preparing to make use of Android back-button using the Bloc-Pattern

Reflection

- Trying to get more into technical side
- Better QA

Randy Nguyen

Accomplishments

- Device location permission
- Centering map on device location
- Displaying nesting box data
- Multi language support

Reflection

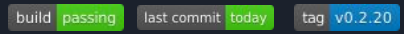
- Learned importance of BLoC design pattern when making asynchronous calls

Progress relative to planning

Backend: 

The major features that were planned for this sprint are finished.

The idea of implementing OData support has been abandoned because the necessary library has not yet been updated to be compatible with our latest framework version.

Mobile App: 

We accomplished our goals of finishing basic screen layouts, displaying test data, and continuing multi language support.

Significant work was done for the maps screen but more functionality is planned.

Full multi language support will be moved to Sprint 5 as part of the finishing touches for the app.

Problems + Solutions. Teamwork Effectiveness

Widgets did not allow asynchronous requests within. Instead widgets will have a BLoC which will make the requests instead while the widget loads an initial state.

The backend services all have to implement nearly the same CRUD operations which results in high code duplication. That's why all service classes now inherit a generic base class that unifies these basic operations.

Team composition is unbalanced where there are more people on the front end. Simon O. and Randy will support backend development when needed.

Burndown Chart

Burndown Chart Explanations

App Issue #38 - Map Screen Comfort Features: This is the epic where issues regarding enhancing the map are linked.

App Issue #77 - Display markers for nesting boxes on the map: was created late in the sprint when we noticed the map could be enhanced. This is worth 2 story points.

Next Sprints Projection - Frontend

Frontend-Issues Moved to Sprint 3:

- #38 - Map Screen Comfort Features
- #43 - Improve layout of BoxInfo Screen
- #74 - Make use of android back button for app navigation
- #77 - Display markers for nesting boxes on the map

Frontend-Issues Created for Sprint 3:

- #83 - Automate Deployment to Playstore
- #84 - Implement services and wrappers for POST requests (Epic)
- #85 - Automatically generate the contents in drop-boxes (Epic)
- #86 - Add support for “Inspections by NestingBox” requests
- #87 - Display inspection-data
- #88 - Update the documentation (Epic)
- #89 - More unit-tests (Epic)

Next Sprints Projection - Backend

Backend-Issues Created for Sprint 3:

- #16 - Add management Operations to CRUD base
- #15 - Inspection management APIs
- #14 - Nesting box management APIs
- #19 - Improve test coverage
- #18 - Add integration tests
- #17 - Add unit tests

Demo