Architectural description

BeeFriend

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Document versioning

Architectural description versions will be tracked using Git and Gitlab. The repository will contain a single branch. All changes will be pushed straight to the main branch. The commit will contain brief summary of the changes. If many changes are being made regarding different sections of the document the changes should be grouped by their purpose and committed in these groups.

The repository: `https://github.com/RimantasJ/SSAD2`

Contents

1 Introduction to management summary

1.1 Goal of architectural description

The goal of the architectural description is to present important information to the stakeholders and find any possible problems with the system to be created beforehand so they could be dealt with.

1.2 Goals of the system

The goals of the system are to help the beekeepers sell and acquire needed equipment as well as help the beekeepers sell their produce.

This will also enable people to buy beekeeping produce straight from the beekeeper of their choice.

1.3 High level overview of the solution

People will be able to register as either beekeepers or customers. Registered beekeepers will be able to trade equipment. But also sell produce to registered customers. Beekeepers can be reviewed by customers after purchase.

Also registered users (both beekeepers and customers) with swarming bees in their premises could post about it. Beekeepers could monitor for these posts and go collect the swarming bees when they are available.

1.4 Highlighting benefits of the solution, risks and mitigation strategies

People may post content that is unfitting. Such content will be removed by moderators and the maleficent user may be suspended.

This can make bee keeping more affordable, by making it easy to find a wider selection of equipment. There may be scammers, but moderators and reviews will remove them or render tham ineffective.

1.5 Key decisions that shaped architecture

The focus of the system is the online marketplace for beekeepers and customers. However, collecting bees on request is a functionality introduced by the convenience of having many beekeepers in the same platform.

2 Stakeholders

1. Beekeepers.
    1.1 Searching, buying and selling equipment;
    1.2 Selling produce;
    1.3 Collecting swarming bees;
    1.4 Beekeeper will want to maintain profiles with extensive information and reviews
2. Customers
    2.1 Ridding of swarming bees from premises;
    2.2 Buying produce.
3. Wholesale buyers. Competitors as they want to buy wholesale produce from beekeepers and resell to consumer;
4. Moderators. Will maintain quality content.
5. Development team. After the system is developed the team, likely after changes, will become a support team.

3 Context viewpoint

3.1 Scope

3.1.1 Included in scope

- Beekeeper and customer marketplace;
- Posting of swarming bees and optional notifications for beekeepers when this happens.

3.1.2 Excluded from scope

- System integration with a shipment system. Traders will have to take care of shipping themselves;
- Beekeeper equipment renting. Will not be implemented initially but may be added to the system in the future;
- Operating outside Lithuania;
- Fact-checking if beekeeper's description of themselves is true (like claiming to grow bees in a remote forest, while actually doing so in field right outside of a city).

3.2 Identity and Responsibilities of External Interfaces

- System will be integrated with payment systems to enable uses to pay by debit or credit cards.

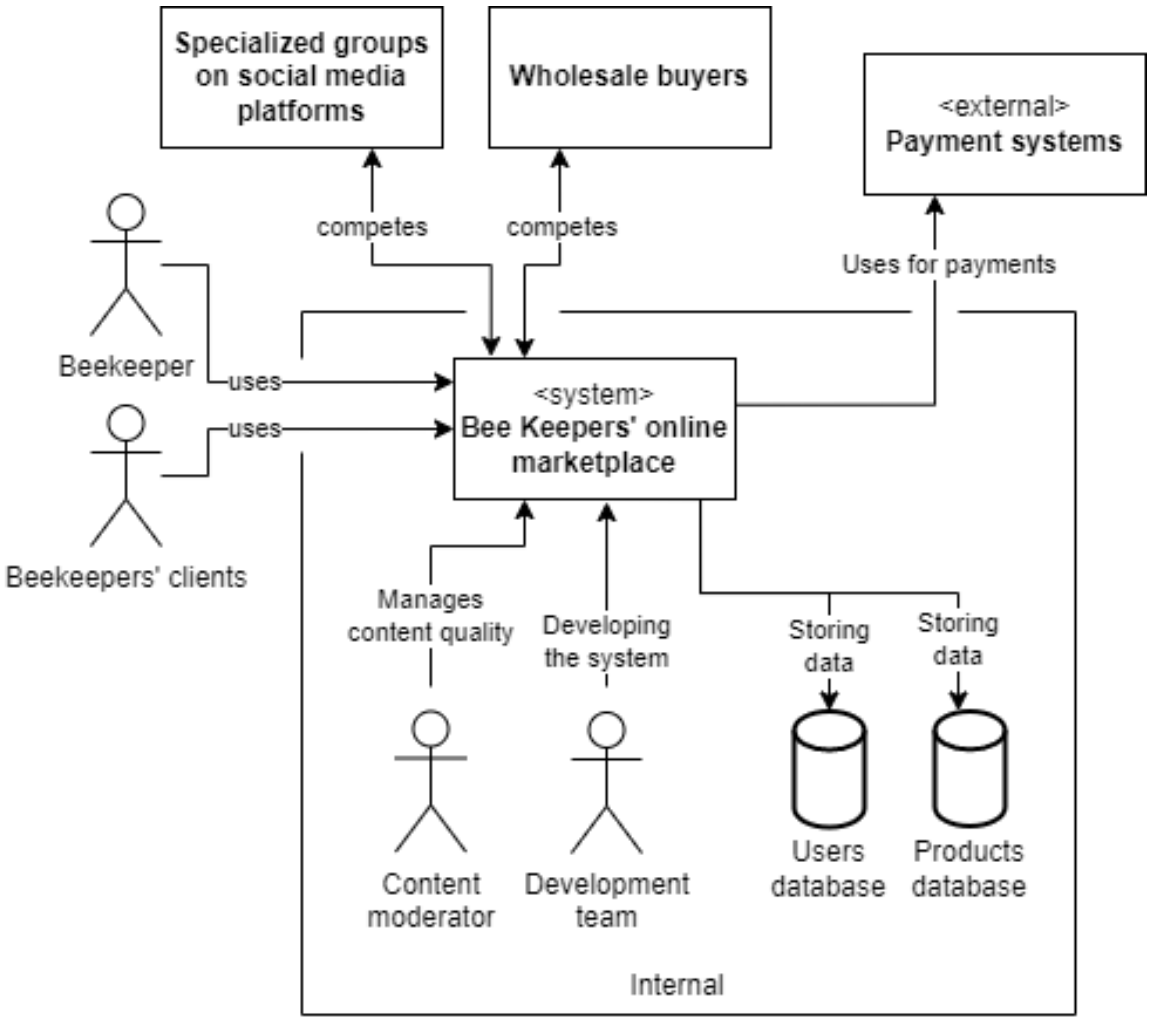

Figure 1: Context view model presented in an informal *box and lines* notation.

4 Glossary

- Customer in this document refers to people buying produce from beekeepers;
- Swarming bees refer to when a beehive produces a new family of bees who, along with the new queen, swarm outside of the original hive and settle in some other location.