

Seminar Project (439.043, 439.041)

Implementing an Inventory System

Motivation

Research in the field of electronics requires a huge variety of different components and equipment. Keeping track of what we have in-house becomes more and more challenging as the institute is growing rapidly.

Several commercial and free tools to handle inventory are available. Each have their strengths and weaknesses and target different applications. Currently, we use the inventory system PartKeepr for managing small parts. We would like to implement a more efficient way of keeping track of our inventory.

Project goal

We would like to have an efficient inventory system. It should be capable of:

- Keeping track of the whereabouts of equipment.
- Keeping track of the in-house stock of electronic components.
- Enable efficient search of electronic components.
- Keep the maintenance overhead as small as possible.

Following tasks are defined to reach the goals:

- Research, comparison, and selection of existing inventory solutions.
- Setup/Installation of system, databases, ...
- Deploying mobile phone apps (for barcode scanning, borrow equipment, ...) to the institute members.
- Working with distributor APIs for automatization purposes (eg. processing of orders or enhance product information).

Your Profile

You enjoy improving systems and have programming skills in a scripting language of your choice.

The project might be handled by two students.

Organizational matters

- Start: as soon as possible
- Workplace: at the institute

Contact/Supervision

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