

Smart Office systems

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Background

It has never been more important to keep your work organised and efficient. Imagine arriving to the office in the morning, scan your smartphone against the NFC reader and yesterday's and future work shows up on your smart desk in the same way you left it. Handle all documents, both physical and digital, in a digitized archive. Brainstorm on a whiteboard that saves your thoughts in to the same local cloud as all your archived documents. The possibilities are endless.

By creating a smart office that supports the work of a small, intermediate, or large organisation an efficient workflow can be maintained and a lot of time can be saved.

Goal

The main goal of this project is to develop a reliable and secure system with the aim of improving the comfort, efficiency and the organization in an office. Users should be able to easily connect to the system through user friendly interfaces.

Functionality

- The system should be scalable in terms of adding more smart products as well as integration of existing services.
- The system should be secure by making use of e.g. NFC scanners for accessing the facilities and encrypting all networked data.
- The interface should be intuitive and simple to use with natural interfaces. Not specifically visual interfaces.
- The system should backup all data. To avoid loss of data in case of power outage or user error.
- The system should be able to automatically order the right amount of new inventory when supplies are low.
- The system should have account handling where multiple users can save their preferences and daily work. This to create a diverse office environment for employees to choose which seat they want no matter the work they do.
- Non-sensitive data should be accessible from outside of the local network e.g. schedules, inventory statistics etc.
- The system should provide a central meeting scheduler and notification which allows users to set up meetings, and the system will notify other users who are invited to the meetings on their computer screens.
- The system should have some sort of statistics handling e.g. user workload, eco-oriented statistics etc.
- Minimize the clutter and use of physical documents by an automated scanning solution that both discards the paper as well as archive them in a secure environment.
- The system should be connected to sister organizations.
- The users should be able to synchronize their data between the system and their computers.
- The system should provide a convenient and fast communication channel for short messages within organization such as personal Voicemail box for each user's desk instead of using sticky notes which may waste tons of paper (eco-friendly).

Roles

The group will act as the product owner and we solicit you to create a software requirement specification for this project.