Rico
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Subject Area	Software and Systems
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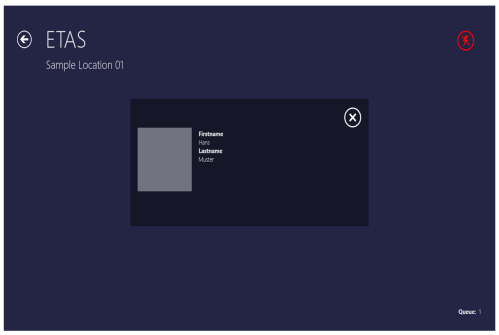
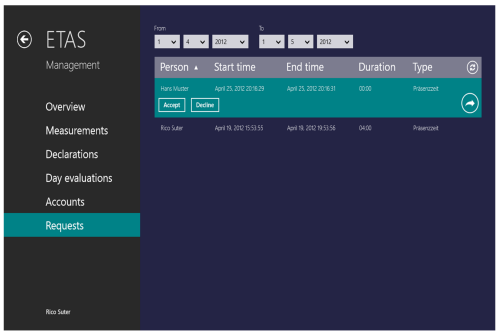
Employee time and attendance software

ETAS



Employee checked in with RFID card

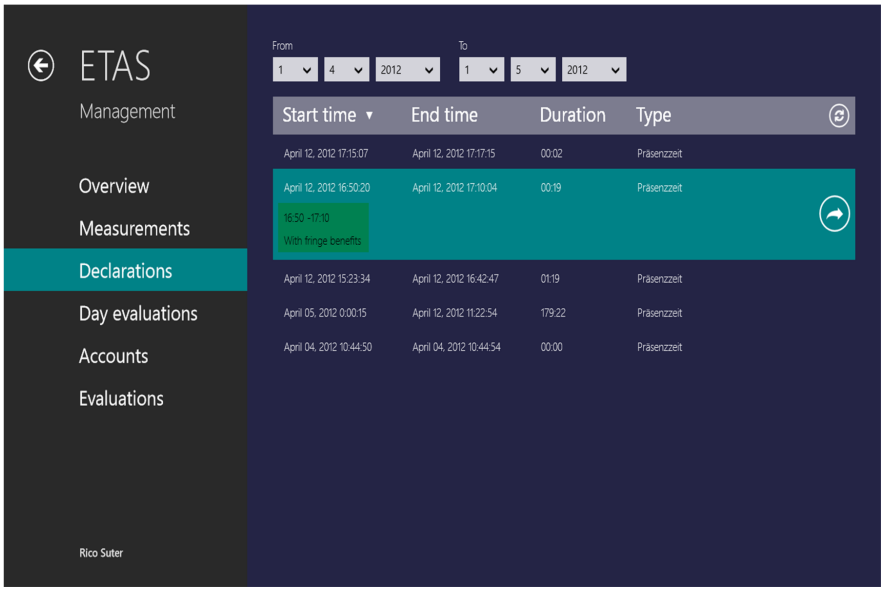


Accept or decline change requests

Introduction: Many companies are working with old-fashioned time clocks, clocking cards and time sheets to track an employee's time and attendance records. This method is inflexible and expensive. The company Prelogic came up with an idea to improve this situation: Instead of using mechanical time clocks, every stamping location will get a tablet computer and every employee gets a RFID card to check in electronically on these tablets.

Proceeding: The aim of this master study project was to develop a prototype of an employee time and attendance software whose clients run on tablets as Windows 8 Metro style app. Metro style apps target the new Windows 8 development framework which can be used with C# and offers XAML user interfaces. Because there was no server backend, we decided to develop a server with a persistence layer too. This way, the resulting software can be demonstrated best.

Solution: During the project, I learned that it can be very frustrating to develop for a very new framework which has not been released yet. The beta version Windows Runtime framework had various bugs which demanded for ugly workarounds. In addition, a lot of well-known components like the data picker or data grid controls are simply missing. Nonetheless, it was rewarding to try out the future of Microsoft Windows development.



Manage own time declarations