# Introduction

The assignment at hand presents the work done by Wojciech Lesniansky, Markus Just, Simon Schneider and Timo Acquistapace in the laboratory “Embedded Hardware”. It firstly introduces the product idea of the “Smart Cart” and the change of scope that project went through. Later on, the architecture, the state machine and the technology stack that is used are described. For the purpose of developing the application “Smart Cart”, a data collection and data analysis had to take place. These steps are described in the section \ref{sect:dataAnalysis}.