

SRD

Introduction:

Electronic payment is taking the world by storm. Adults are going cashless with the help of bank cards and mobile wallets, but nobody is building anything for the younger generation.

Purpose:

We decided to take a deeper look into how to enable children to have the feature of paying via card using RFID technology.

With our application installed at schools, every child will always have the ability to purchase whatever they need without carrying cash, no forgetting or losing their allowance, and no more bullying, and more healthy lifestyle. We also integrated a safety layer that notifies parents when the child arrives at or departs from school, keeping the parents up to date on the safety and location of their child.

Our system will include:

- RFID technology
- Live updates
- Web-application
- mobile-application

Product perspective:

The product is supposed to be every parent's friend. It is a web / mobile based system implementing a client-server model. This System provides a simple mechanism for parents to manage their kids' purchases.

Product Functionality:

Add child: parents can add new child to the software family tree.

Setup Balance: parents can add/update the balance of the family.

Setup child's points: parents can add/update child's points.

Setup child's allergens: parents can add/update child's allergens.

Show Activity: parents can view their child's activities.

Enable limits: parents limit the child's spending.

Assumptions

- The main assumption is the existence of cafeteria/store inside the school grounds
- Parents and school will cooperative

Requirement Specification

This section includes requirements to build our software system and description of its behavior.

User Interface

The frontend will be divided into two parts, first part will be parents interface that will be created with the help of react-native framework, and the second part will be school cafeteria interface that will be created with the help of react, both will be connected to the backend that will be created with NodeJS and NoSQL database