

Software Toolbox for Dorpswinkel Sauwerd



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Importance & Solution

- Prevent losses
- Fine-tune working hours

Product Design



Product Design

- Parser

Product Design

```
(venv) arjan@arjan-VirtualBox:~/Projects/SoftwareEngineering/journal_parser$ python main.py
[ { 'journal_record_cashier': '#1 / VERKOPER 1',
  'journal_record_date': '2017-08-31 11:13:57',
  'journal_record_no': '#0/2',
  'journal_record_products': [ { 'product_amount': '1,00 ',
                                'product_canceled': False,
                                'product_discount': '0,00',
                                'product_name': 'K.W. NS',
                                'product_plu': '10010',
                                'product_price': ' 0,01',
                                'product_total': '0,01'}],
  'journal_record_type': 'Sale'},
{ 'journal_record_cashier': '#1 / VERKOPER 1',
  'journal_record_date': '2017-08-31 11:14:49',
  'journal_record_no': '#0/3',
  'journal_record_products': [ { 'product_amount': '1,00 ',
                                'product_canceled': False,
                                'product_discount': '0,00',
                                'product_name': 'K.W. NS',
                                'product_plu': '10010',
                                'product_price': ' 0,01',
                                'product_total': '0,01'}],
  'journal_record_type': 'Sale'},
{ 'journal_record_cashier': '#1 / VERKOPER 1',
  'journal_record_date': '2017-08-31 13:29:20',
  'journal_record_no': '#0/4',
  'journal_record_products': [ { 'product_amount': '1,00 ',
                                'product_canceled': True,
                                'product_discount': '0,00',
                                'product_name': 'VU PAK VANILLE VLA',
                                'product_plu': '8711853013902',
                                'product_price': ' 1,35',
                                'product_total': '0,00'},
  { 'product_amount': '1,00 ',
    'product_canceled': True,
    'product_discount': '0,00',
    'product_name': 'BELEGEN NAT. KAAS',
    'product_plu': '4906',
    'product_price': ' 5,94',
    'product_total': '5,94'},
  { 'product_amount': '1,00 ',
    'product_canceled': True,
    'product_discount': '0,00',
    'product_name': 'RUNDERGEHAKT 320GR',
    'product_plu': '2309940000000',
    'product_price': ' 1,49',
    'product_total': '1,49'},
  { 'product_amount': '1,00 ',
    'product_canceled': True,
    'product_discount': '0,00',
    'product_name': 'GEHAKT GEKR.RUNDER '
    '520GR',
    'product_plu': '2309886000000',
    'product_price': ' 2,62',
    'product_total': '0,00'}]
```

Product Design

- Parser
- Barcode scanner

Product Design

- Parser
- Barcode scanner
- API

PRODUCTS SOLD

<u>PLU</u>	Price	Name	Stock	TransactionID
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TRANSACTION

<u>TransactionID</u>	ReceiptN	TransType	Discount	TotAmount	PaymentMethod	DateTime
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CASH

<u>TransactionID</u>	ReceiptN	TotalAmount	Change
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CARD

<u>TransactionID</u>	ReceiptN	SerialNumber	Change
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LOYALTY CARD

<u>Barcode</u>	TransactionID	CustomerName	CustomerEmail
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Technical Description

- Parser: Python
- Database: MySQL
 - ▶ Need for a relational database
 - ▶ Very popular
- Barcode Scanner: JavaScript (ReactJS)
 - ▶ Frontend
 - ▶ Less computation on the server
 - ▶ Less data consumption
- Web App:
 - ▶ Frontend: ReactJS
 - ▶ Backend: Flask (Python)

Future Additions

- Webapp

