

SustainTrack

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Presentation Plan

- ① Motivation
- ② Why SustainTrack
- ③ Functional Flow
- ④ Technologies
- ⑤ User Interface
- ⑥ Appendix

Motivation

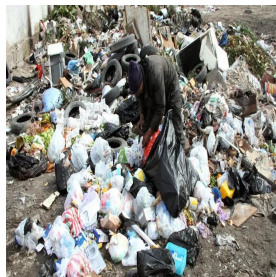
572 million
dinars/year



At least 2.8 million
dinars per year



600,000 malnourished
people



Source: Tunisian National Institute for consumption

Why SustainTrack

SustainTrack is an API designed to help retailers manage their stock efficiently and reduce food waste. It aims to make a positive impact on both businesses and the community.



- **Dynamic Stock Management**



- **Real-time Tracking of Perishable Products expiration**

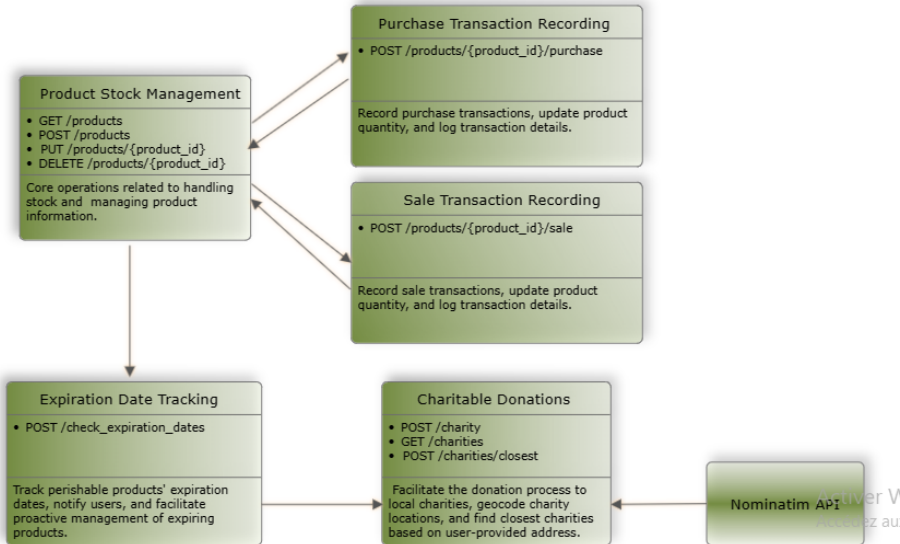


- **Donation Encouragement and Facilitation**



- **Sustainable Perishable Waste Minimization**

Functional Flow



Technologies

Framework



Database



Testing



Front-end



Security



User Interface

Product Management

[View Products](#) [Add Product](#) [Update Product](#) [Delete Product](#) [Record Transaction](#) [Donate](#)

Product 'milk' is approaching its expiration date on 2024-01-27
Product 'Coke' is approaching its expiration date on 2024-01-24

Stock Management

[View Products](#) [Add Product](#) [Update Product](#) [Delete Product](#) [Record Transaction](#)

Product List

- b2873ef4-03f5-4c0e-ac3d-314ddccfe8161 - biscuits - Price: 1.5 - Quantity: 160
- 4307a68d-9e60-498a-8ab1-ec41347fd961 - chips - Price: 4 - Quantity: 50
- 69ed00a4-dbe2-4637-8e1f-4156340c91d0 - milk - Price: 1 - Quantity: 10
- 1fbefabc-b457-4c3f-8cc5-0b1094d57b90 - Coke - Price: 3 - Quantity: 15

Product 'milk' is approaching its expiration date on 2024-01-27
Product 'Coke' is approaching its expiration date on 2024-01-24

Stock Management

[View Products](#) [Add Product](#) [Update Product](#) [Delete Product](#) [Record Transaction](#)

Record Transaction

Product ID: Transaction Type (sale/purchase): Quantity: [Record Transaction](#)

Product 'milk' is approaching its expiration date on 2024-01-27
Product 'Coke' is approaching its expiration date on 2024-01-24

Closest charities to you, Contact then and donate!

- **Test Charity**
Address: Boulevard de l'Environnement, Tunis, Tunisia 1057
Contact Info: test@example.com
- **SOS tunis**
Address: Boulevard de l'Environnement, 1057 Tunis
Contact Info: +216 71 919 911
- **test**
Address: Boulevard de l'Environnement, Tunis, Tunisia 1057
Contact Info: test
- **Association FARHA des Aveugles Agés**
Address: 1002 Tunis
Contact Info: +216 58 090 880
- **SOS Siliana**
Address: Siliana, Siliana, Tunisia
Contact Info: 71256987

Future Enhancements

- **AI Integration:**
 - Dynamic matching
 - Social media monitoring, integration with local donation platform
- **Enhanced Analytics:**
 - Demand forecasting
 - Dynamic donation recommendations
 - Performance metrics
- **Enhanced Customization:**
 - Tailoring feature for specific needs
 - Sector-specific adaptations

Appendix

Request body required

```
{
  "name": "test",
  "address": "Boulevard de l'Environnement, Tunis, Tunisia 1057",
  "contact_info": "test"
}
```

Response body

```
{
  "id": 10,
  "name": "test",
  "address": "Boulevard de l'Environnement, Tunis, Tunisia 1057",
  "contact_info": "test",
  "latitude": 36.904223,
  "longitude": 10.2974272
}
```

Response headers

```
},
{
  "id": 4,
  "name": "Association FARHA des Aveugles Agés",
  "address": "1002 Tunis",
  "contact_info": "+216 58 090 880",
  "latitude": 36.82411977222222,
  "longitude": 10.183632686324785
},
{
  "id": 5,
  "name": "SOS Siliana",
  "address": "Siliana, Siliana, Tunisia",
  "contact_info": "71256987",
  "latitude": 36.0846651,
  "longitude": 9.3743733
},
{
  "id": 6,
  "name": "SOS tunis",
  "address": "Boulevard de l'Environnement, 1057 Tunis",
  "contact_info": "+216 71 919 911",
  "latitude": 36.904223,
  "longitude": 10.2974272
}
]
```

*before sorting

```
{
  "id": 6,
  "name": "SOS tunis",
  "address": "Boulevard de l'Environnement, 1057 Tunis",
  "contact_info": "+216 71 919 911",
  "latitude": 36.904223,
  "longitude": 10.2974272
},
{
  "id": 4,
  "name": "Association FARHA des Aveugles Agés",
  "address": "1002 Tunis",
  "contact_info": "+216 58 090 880",
  "latitude": 36.82411977222222,
  "longitude": 10.183632686324785
},
{
  "id": 5,
  "name": "SOS Siliana",
  "address": "Siliana, Siliana, Tunisia",
  "contact_info": "71256987",
  "latitude": 36.0846651,
  "longitude": 9.3743733
},
{
  "id": 3,
  "name": "SOS Siliana",
  "address": "Siliana, Siliana, Tunisia",
  "contact_info": "71256987",
  "latitude": 36.0846651,
  "longitude": 9.3743733
},
{
  "id": 2,
  "name": "SOS Siliana",
  "address": "Siliana, Siliana, Tunisia",
  "contact_info": "71256987",
  "latitude": 36.0846651,
  "longitude": 9.3743733
},
{
  "id": 1,
  "name": "SOS Siliana",
  "address": "Siliana, Siliana, Tunisia",
  "contact_info": "71256987",
  "latitude": 36.0846651,
  "longitude": 9.3743733
}
]
```

*after sorting

References

- Food waste in Tunisa Study: <https://www.panapress.com/>
- FastAPI: <https://fastapi.tiangolo.com/>
- Vue.js: <https://vuejs.org/guide/introduction.html>
- List of Tunisian charities:
<https://www.social.gov.tn/fr/societes>