

E-Waste Management System

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Project Description:

E-waste is a term used to cover all things of electrical and electronic equipment (EEE) and parts have been disposed of by its proprietor as waste without the goal of reuse. E-waste is a serious issue in all developed and developing countries as it has given significant challenges towards the waste management system. Owing to the rapid development of technologies, marketing and compatibility issues, the lifespan of electrical and electronic goods become considerably shortened, that becomes emerging global and local concern today due to the increasing amount of it.

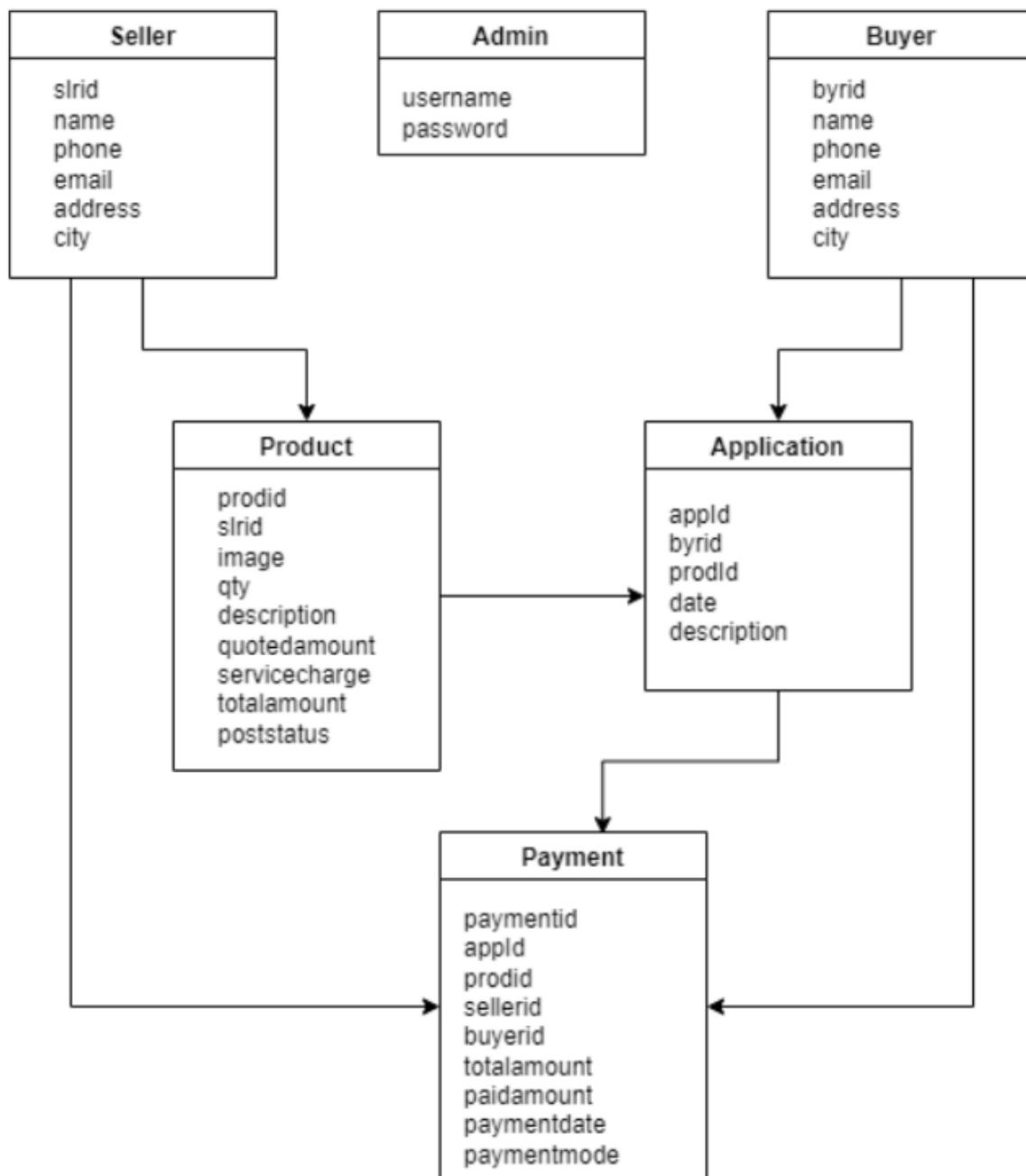
E-waste Management System is a web portal developed to automate the process of recycling the E-waste products. This application can be accessed by the admin, sellers and buyers. The sellers, those who want to sell the E-waste can sign up with the following details like name, phone, email, address & city. After registration they can login and post the E-waste details with product image, quantity with product description. The admin will review those details and he will update the price inclusive of fixed service charge and he will approve it. Once it is approved the e-waste product posting will go live.

The buyer should sign up with this application and can login. Buyer can view and manage their profile. They can view the posted e-waste product details and send applications for the interested product. They can also view the seller contact and they can contact as well. Now the seller will receive the application and they can contact the buyer and can sell the e-waste. The buyer has to pay in the application and the admin will return the amount to the seller after deducting the service charge. The buyer has to go and pick up the e-waste. After sales the client will update the status as sold in the application.

Database Description:

E-waste Management System is a web application developed to automate the process of recycling the E-waste products. This application can be accessed by the admin, sellers and buyers. The seller, those who want to sell the E-waste can sign up with the following details like name, phone, email, address & city. After registration they can login and post the E-waste details with product image, quantity with product description. The admin will review those details and he will update the price inclusive of fixed service charge and he will approve it. Once it is approved the e-waste product posting will go live. The buyer should sign up with this application and can login. Buyer can view and manage their profile. They can view the posted e-waste product details and send an application for the interested product. They can also view the seller contact and they can contact as well. Now the seller will receive the application. They can contact the buyer and sell the e-waste. The buyer has to pay in the application and the admin will return the amount to the seller after deducting the service charge. The buyer has to go and pick up the e-waste. After sales the client will update the status as sold in the application.

Database Design:



Database collections:

application	buyer	payment
Storage size: 4.10 kB Documents: 0 Avg. document size: 0 B Indexes: 1 Total index size: 4.10 kB	Storage size: 4.10 kB Documents: 0 Avg. document size: 0 B Indexes: 1 Total index size: 4.10 kB	Storage size: 4.10 kB Documents: 0 Avg. document size: 0 B Indexes: 1 Total index size: 4.10 kB
product	seller	
Storage size: 4.10 kB Documents: 0 Avg. document size: 0 B Indexes: 1 Total index size: 4.10 kB	Storage size: 4.10 kB Documents: 0 Avg. document size: 0 B Indexes: 1 Total index size: 4.10 kB	

Sample data:

Buyer

```
{  
  "byrid": "byr1103",  
  "name": "Thomas",  
  "phone": "2216574-786",  
  "email": "thomas@gmail.com",  
  "address": "chicago",  
  "city": "chicago"  
}
```

Seller

```
{  
  "slrid": "slr332",  
  "category": "Electronics",  
  "subcategory": "Smartphones",  
  "brand": "Samsung",  
  "model": "Galaxy S20",  
  "price": 1000,  
  "stock": 50,  
  "rating": 4.5,  
  "reviews": 100,  
  "image": "https://example.com/images/samsung-galaxy-s20.jpg",  
  "description": "The Samsung Galaxy S20 is a high-end smartphone featuring a 6.2-inch Super AMOLED display, a 60Hz refresh rate, and a 120Hz touch sampling rate. It is powered by the Qualcomm Snapdragon 865 processor and runs on Android 10. The phone has a triple-camera system with 64MP, 12MP, and 12MP lenses, and a 32MP front-facing camera. It also features a 4000mAh battery and IP68 water resistance."}
```

```
"name": "Daniel",
"phone": "2216745-780",,
"email": "daniel@gmail.com",
"address": "chicago",
"city": "chicago"
}
```

Product

```
{
"prodid": "pk581",
"slrid": "slr332",
"image": "pk881.jpg",
"qty": "120",
"quotedamount": "64000",
"servicecharge": "4000",
"totalamount": "68000",
"poststatus": "approved"
}
```

Application

```
{
"appid": "ap439",
"byrid": "byr1103",
"prodid": "pk581",
"date": "13-03-2023",
```

```
    "description": "Im interested in it, contact me",  
}
```

Payment

```
{  
  
    "paymentid": "pm5288",  
  
    "appid": "ap419",  
  
    "byrid": "byr1103",  
  
    "slrid": "slr332",  
  
    "prodid": "pk581",  
  
    "totalamount": "7500.00",  
  
    "paidamount": "7500.00",  
  
    "pmtdate": "13-03-2023",  
  
    "pmtmode": "credit card"  
}
```

Functional Requirements:

- Admin will login with default username and password.
- Admin can view the buyers and sellers
- Admin can view the E-Waste List
- Admin can update and approve the E-Waste
- Buyer will register with correct details and login with email and password.
- Buyer will view the approved E-Waste List
- Buyer will request the E-Waste products
- Seller will register with correct details and login with email and password.
- Seller will add the E-Waste.
- Seller will view the E-Waste.

User Interface and Forms:

- buyer_login: In this page the buyer will login
- buyer/edit: In this page the buyer can edit the profile
- application/list : In this page that admin view the applications
- ewaste/list: In this page that admin views the e-waste list.
- seller/list : In this page that seller views the seller list.
- buyer/list: In this page that admin can view buyer list

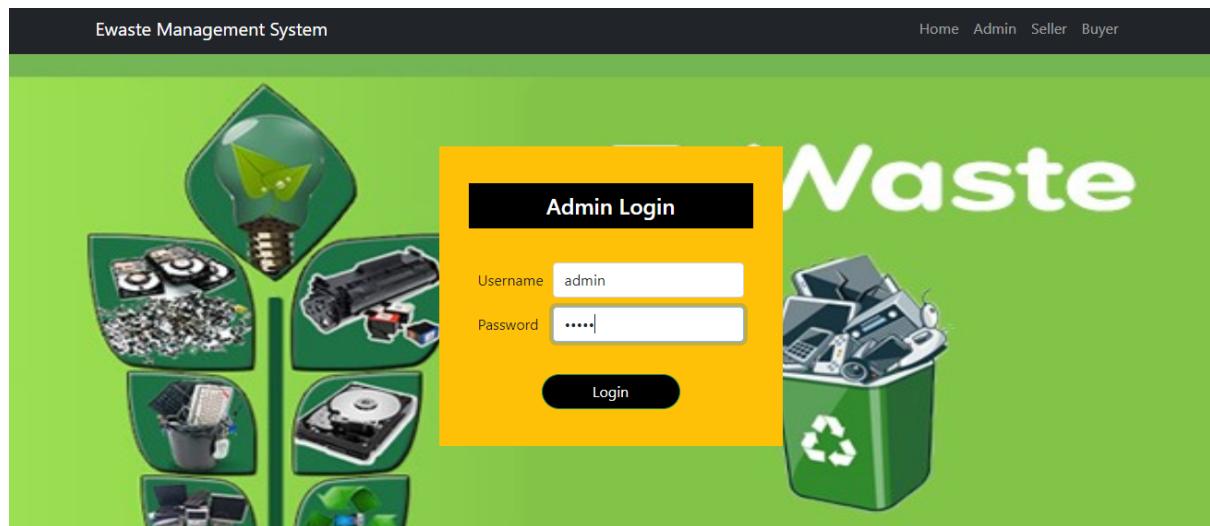
Snippets:

Home Page:



This is the E-Waste Homepage in which We can see the Admin,Seller and Buyer links .By Clicking Admin Page is Redirected to the Admin Login Page or by clicking seller Page is redirected to the seller home Page or by clicking buyer Page is redirected to the buyer home Page.

Admin Login:



This is the Admin Login Page. By entering the Username and Password as admin and clicking on the Login button then the page is redirected to Admin Home Page.

View Seller List:

ID	Name	Phone	Email	Address
SELLR64901	venus	9876543210	venus@gmail.com	8-3-898/7 nagarjuna nagar colony Ameerpet
SELLR64902	seller	9874563210	seller@gmail.com	US

This is the Sellers Page. Here we can view the signed up sellers details on this page.

View E waste List:

Ewaste List				
ID	Qty	Seller Price	Service Charge	Total Amount
EWAST62353	10	200.0	100.0	300.0
EWAST62354	10	200.0	20.0	220.0
EWAST62355	10	200.0	30.0	230.0
EWAST62356	10	200.0	120.0	320.0
EWAST62357	10	3000.0	0.0	0.0

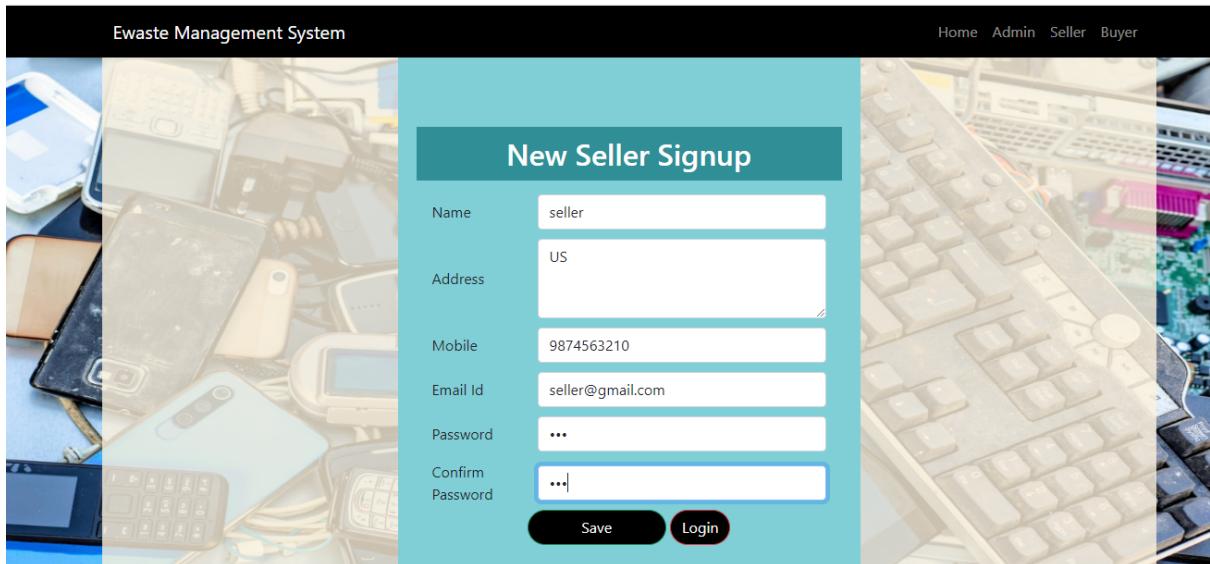
This is the Ewaste Page. Here we can view the e-waste list that was added by the seller.

View Application List:

Application Details				
Application Id	Ewaste Id	Buyer Id	Message	Status
APPL064901	EWAST62353	BUYER64901	hjgjhgjhgjh	Accepted
APPL064902	EWAST62354	BUYER64901	dfdsafsdf	Accepted
APPL064903	EWAST62355	BUYER64901	fdfsfsa	Accepted
APPL064904	EWAST62356	BUYER64901	fasfa	Accepted

This is the Application Page. Here we can see the application details on this page and also the status of the application.

Seller Sign Up:



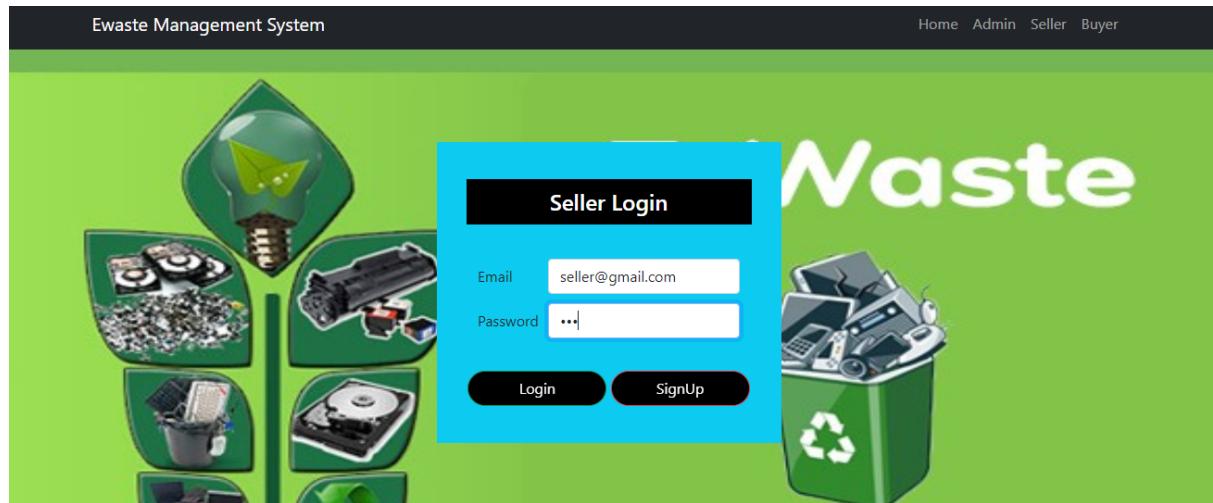
The screenshot shows the 'New Seller Signup' page of the Ewaste Management System. The page has a teal header with the title 'New Seller Signup'. Below the header is a form with the following fields and values:

Name	seller
Address	US
Mobile	9874563210
Email Id	seller@gmail.com
Password	...
Confirm Password	...

At the bottom of the form are two buttons: 'Save' (in a black button) and 'Login' (in a red button).

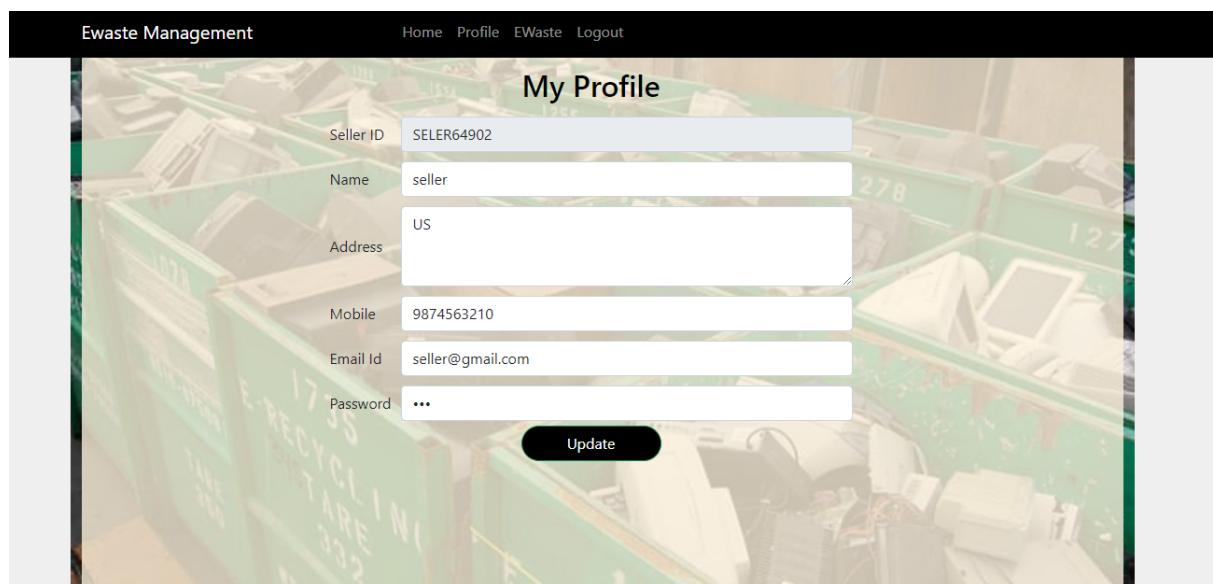
This is the Seller Sign Up Page. In this page we can enter the name, address, mobile, email-id, password and confirm password and the last we can click on the save button then the seller will sign up successfully.

Seller Login:



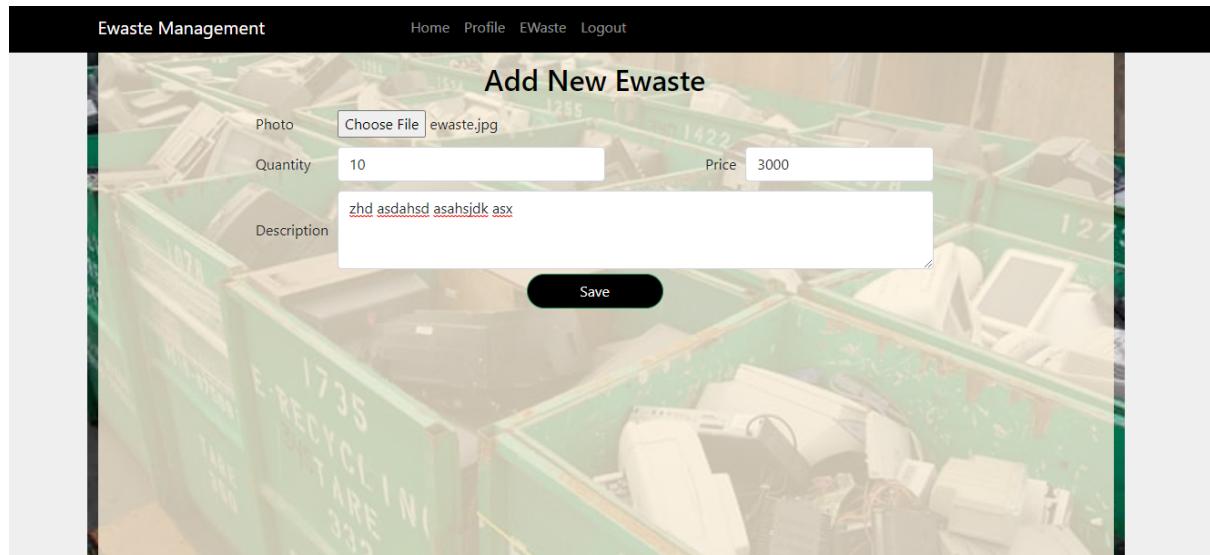
This is the Seller Login page. We can enter the Existing Email and the password and last we can click on the Login button then the page will be redirected to the Seller Home Page.

Seller Home:



This is the Seller Homepage. We can view the seller profile on this page.

Add New E Waste:



This is the Ewaste Page. Here we can add the new e-waste by choosing the image , give the quantity,price and description of the e-waste and click on the Save button to add the new e-waste.

Buyer Sign Up:

Ewaste Management System

Home Admin Seller Buyer

New Buyer Signup

Name	buyer
Address	US
Mobile	9874563236
Email Id	buyer@gmail.com
Password	...
Confirm Password	...

Save **Login**

This is the Buyer Sign Up Page. In this page we can enter the name, address, mobile, email-id, password and confirm password and the last we can click on the save button then the buyer will sign up successfully.

Buyer Login:

Ewaste Management System

Home Admin Seller Buyer

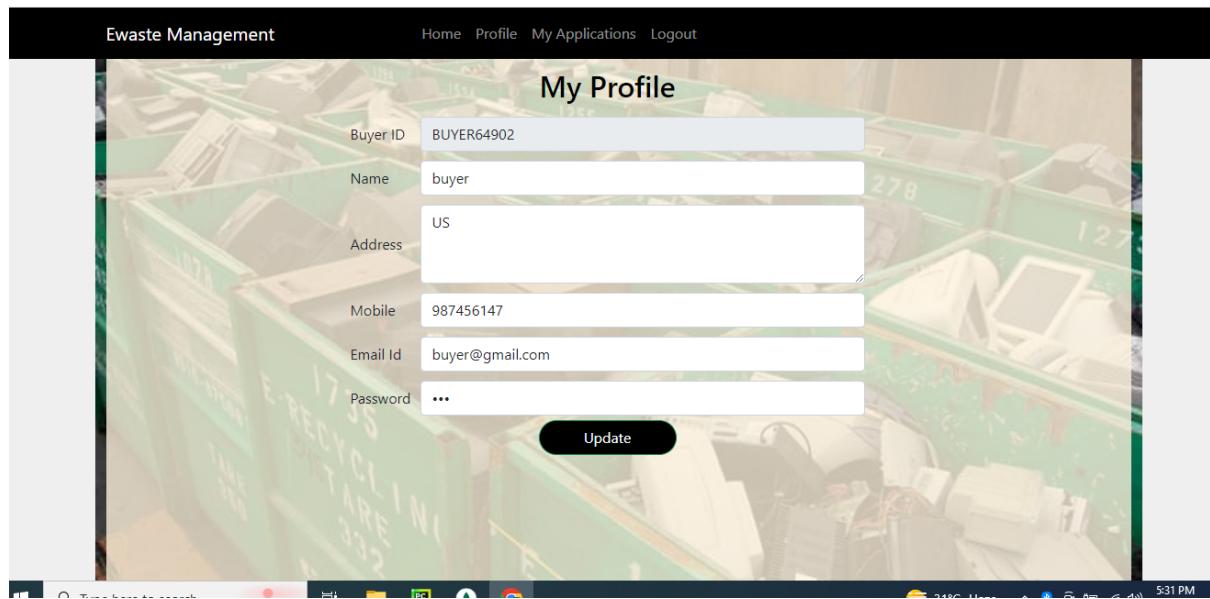
Buyer Login

Email	buyer@gmail.com
Password	...

Login **SignUp**

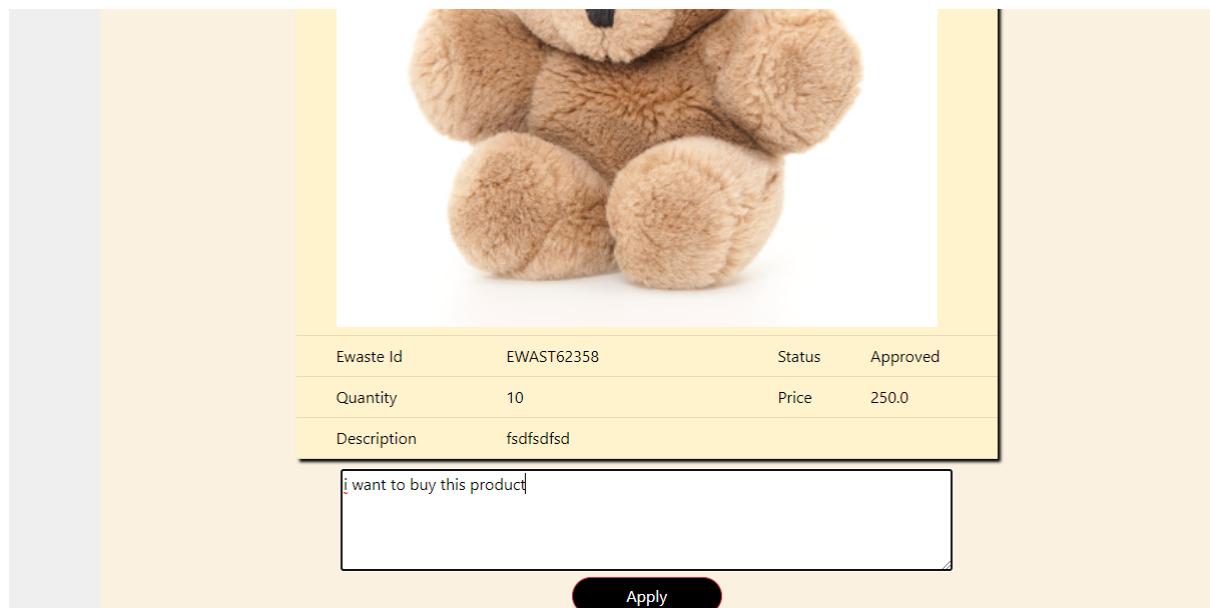
This is the Buyer Login page. We can enter the Existing Email and the password and last we can click on the Login button then the page will be redirected to the Buyer Home Page.

Buyer Profile:



This is the Buyer Homepage. We can view the buyer profile on this page and also can update the details by clicking on the update button.

Buyer Apply for Product:



This is the page where buyers apply for the product by seeing the details of the product and giving some text for this product and clicking on the apply button. That's how the buyer will apply for the product.

E-Waste Payment

Ewaste Management Home Profile EWaste Logout

Ewaste Payment Update

Payment Id	PMT6562358
Ewaste Id	EWAST62359
Seller ID	SELLER64901
Buyer ID	BUYER64901
Amount	220.0
Mode	Debit Card
Name On Card	raviteja
Card Number	6543210987123444
CVV	123
Expire Date	12/23

submit

This is the E-Waste Payment page where sellers will deduct the amount by taking the buyer card details and clicking on the submit button. That's how they buy the product.