Headless Transaction

Application Screenshots

CloudCart

LabelGen

CodeLink

Developed By:

Utkarsh Mishra Student, MTech Integrated Software Engineering Vellore Institute of Technology, Chennai

Contacts

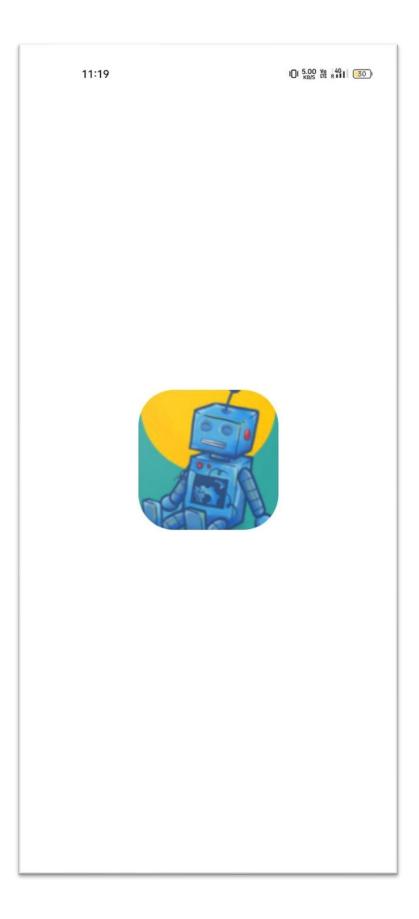
Mob. No.: (91)888-785-4926

LinkedIn: https://www.linkedin.com/in/utkarshmi/

Gmail: utm1403@gmail.com

CloudCart Launch Screen

User is welcomed with a **CloudCart**Logo when he/she starts the application

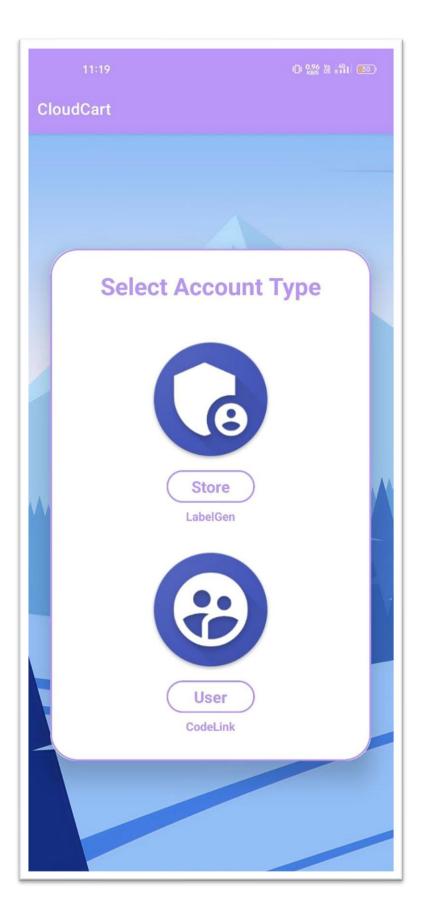


CloudCart Select Account Type Window

User is redirected to Select Account Type Window from where he/she can select the account type i.e., either **Store** or **User**.

All the tasks performed under **Store** option fall under **LabelGen** services.

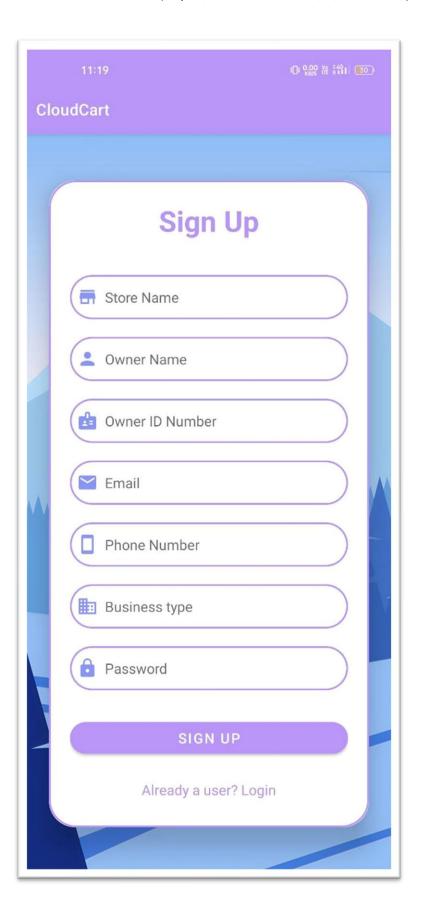
All the tasks performed under **User** option fall under **CodeLink** services.



Store Sign Up Window

Upon selection of Account Type as Store, user is redirected to Store Sign Up window where he/she can create a store by filling a sign-up form.

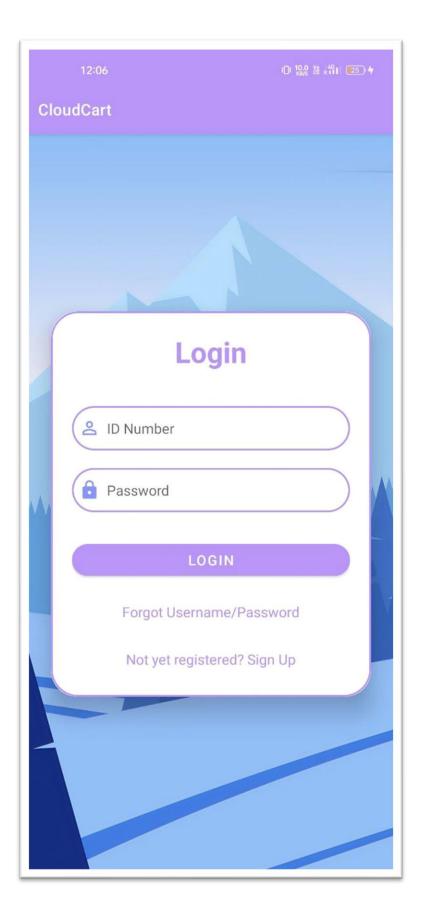
The details entered are stored in Realtime Firebase Database.



Store Login Window

Post successful signup, user is automatically redirected to Login page, where he/she can enter the store credentials used during Sign-up process to access his/her store.

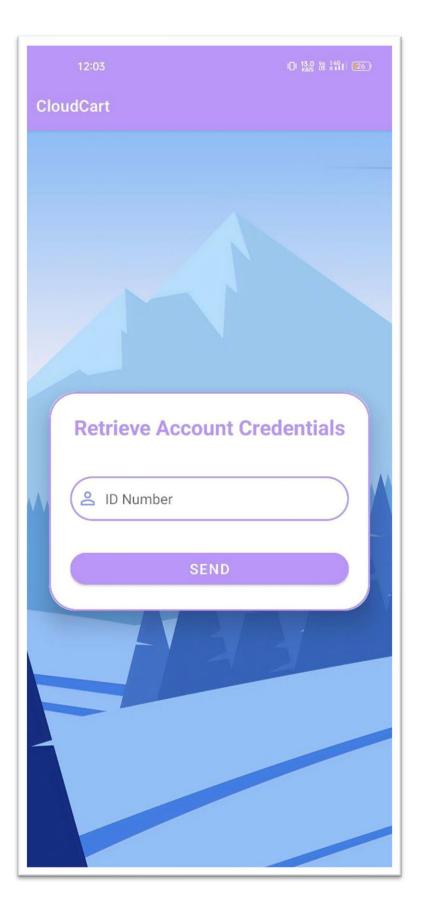
The credentials entered are verified with the credentials stored in Realtime Firebase Database to authorize Login.



Store Retrieve Account Credentials Window

Retrieve Account
Credentials option
can be selected from
the Login Page, if the
user has forgot
his/her account
credentials.

ID Number entered during sign-up is used. Recovery Mail to the registered Email ID is sent with Account Details.



Store Recovery Email

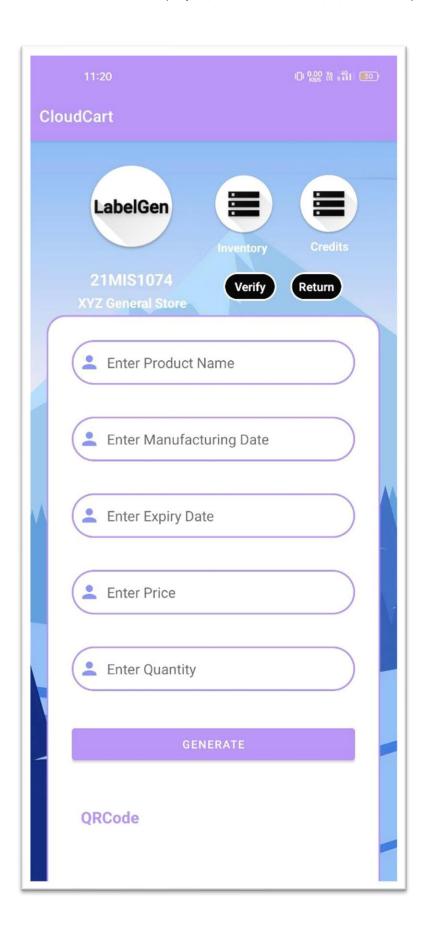
Computerized recovery email containing Login Credentials from **teamcloudcart** (LabelGen) is sent to the users registered Email ID.



Store Dashboard Window

Upon successful Login user is redirected to Store Dashboard.

All of the store information along with Inventory View, Credits Addition, Product Entry Form is available in dashboard.



Add Product Form

Store owner can do the product entry from the Add Product Form available in the Store Dashboard.

On clicking the generate button, a customized and special Product Barcode is generated that can be pasted upon products to do transactions.

This generated special Barcode contains all the information about the product including Price, Manufacturing Date, Expiry Date.

Generated special
Barcode along with
all the information
can be stored in
Store's Realtime
Firebase Database by

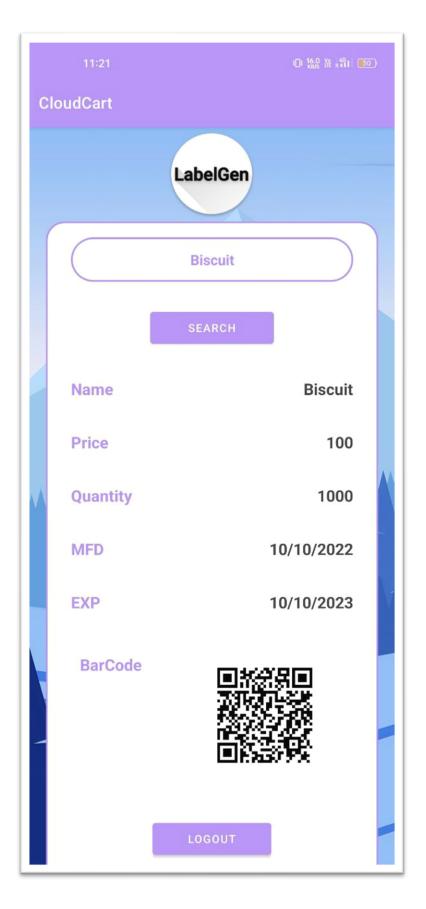
CloudCart **Biscuit** 10/10/2022 10/10/2023 100 1000 Barcode

clicking on 'SAVE DETAILS' button.

Inventory View Window

Another option on the Store Dashboard is the Inventory View.

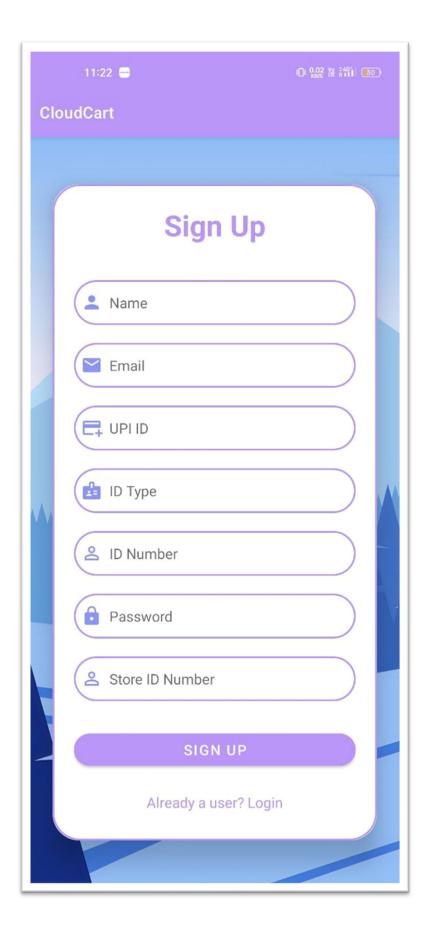
Using Inventory
View, store owner
can get the details
about the products in
the inventory
including the Name,
Price, Quantity left,
Manufacturing Date,
Expiry Date and the
Barcode generated
and stored in the
Realtime Firebase
Database.



User Sign Up Window

Upon selection of Account Type as User, user is redirected to User Sign Up window where he/she can create an account with his/her favourable store by filling a sign-up form.

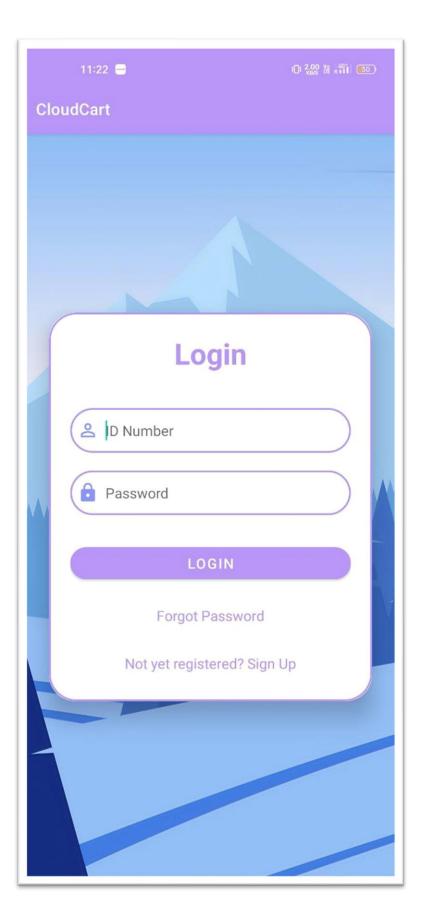
The details entered are stored in Realtime Firebase Database.



User Login Window

Post successful signup, user is automatically redirected to Login page, where he/she can enter the store credentials used during Sign-up process to access his/her account.

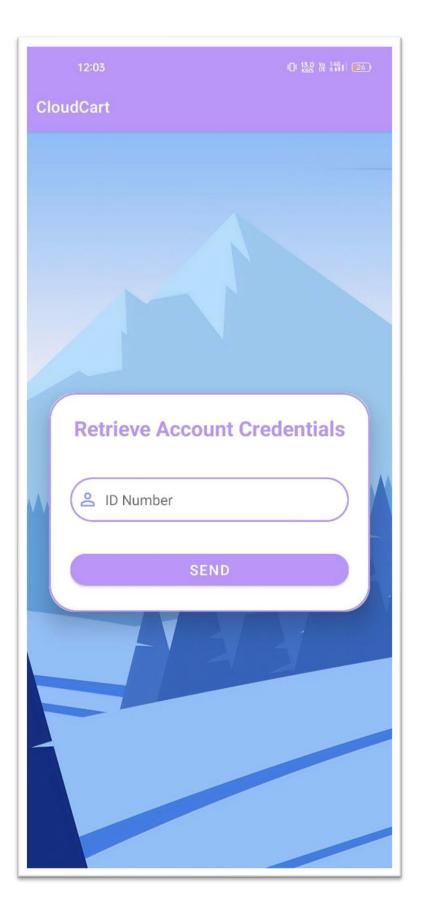
The credentials entered are verified with the credentials stored in Realtime Firebase Database to authorize Login.



User Retrieve Account Credentials Window

Retrieve Account
Credentials option
can be selected from
the Login Page, if the
user has forgot
his/her account
credentials.

ID Number entered during sign-up is used. Recovery Mail to the registered Email ID is sent with Account Details.



User Recovery Email

Computerized recovery email containing Login Credentials from **teamcloudcart** (CodeLink) is sent to the users registered Email ID.



User Profile View Window

Upon successful
Login, user is
redirected to Profile
View where he/she
can view all of the
account details
including UPI ID,
Password, ID Type, ID
Number, and special
generated QR Code
for the user
verification along with
Return and Billing
options.



Billing Window

Using the Billing option present in the user profile, user can scan the Barcode on the product and add the item to the cart for further payment.

Upon adding all the items in the cart, the user can generate the receipt by selecting the 'Generate Receipt' option. An e-Receipt is generated and stored in the Realtime Firebase Database.

Upon selecting the 'Email Receipt' option, the generated receipt is sent automatically to the users registered Email ID.



e-Receipt

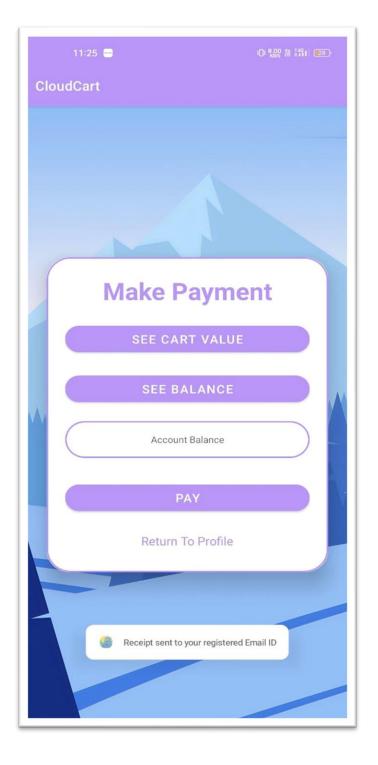


An e-Receipt containing Items bought and net payable amount is sent to users registered Email ID.

Make Payment Window

Upon pressing the Email Receipt button, the user is automatically redirected to Make Payment Window.

User can view the cart value, current account balance (credits), and can make the payments for the products purchased.

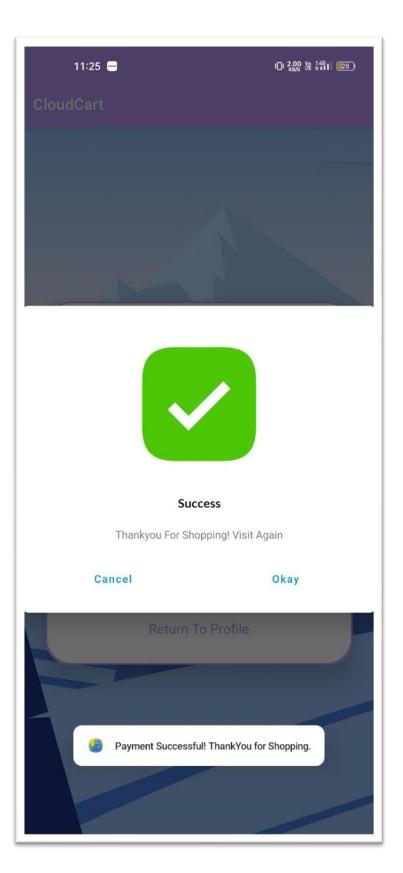


If the account credits are less than the cart value, a computerized email is sent to teamcloudcart with request for credits refill for the account number.



Payment Successful

Upon successful payment, user is notified with a success popup and a payment successful auto generated email is sent to the user with the verification code.



Payment Successful Email

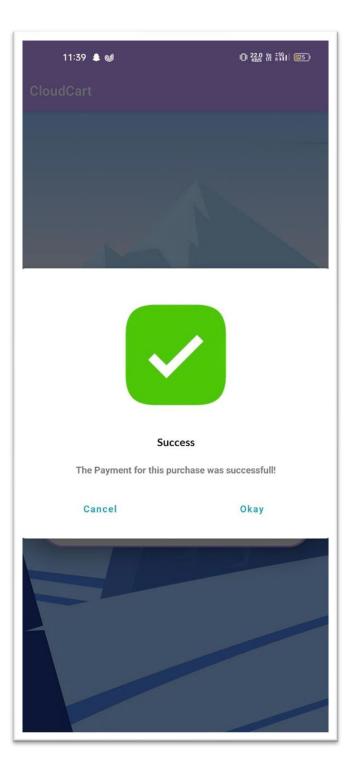


Upon successful payment, user receives an auto generated email which contains the paid amount, and a One Time Password which user can verify at the exit to step out of the store.

Verify Purchase (Store)

Store owners can verify the payment of the customer, by selecting the verify option in the store dashboard and providing the OTP user got in the mail to check if the Payment is successful or not.

Upon entering the correct OTP, a success popup will appear.



Return Request Window

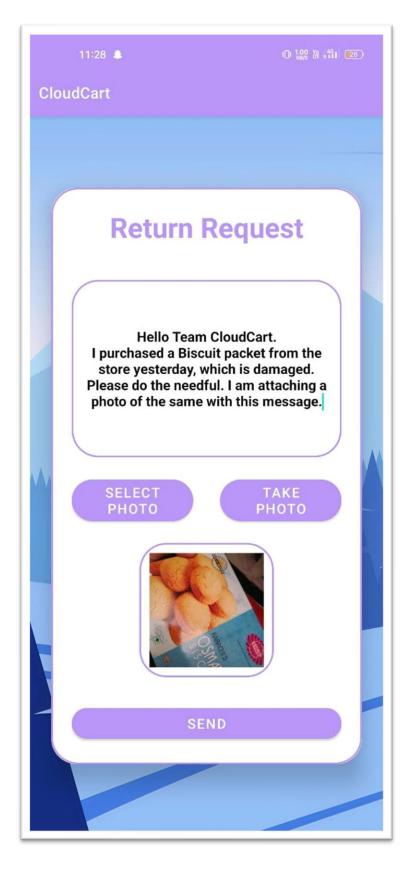
Customers can launch a complaint for the defective product received by filling a return request form.

Customers need to describe the problem and attach a picture of the defective product.

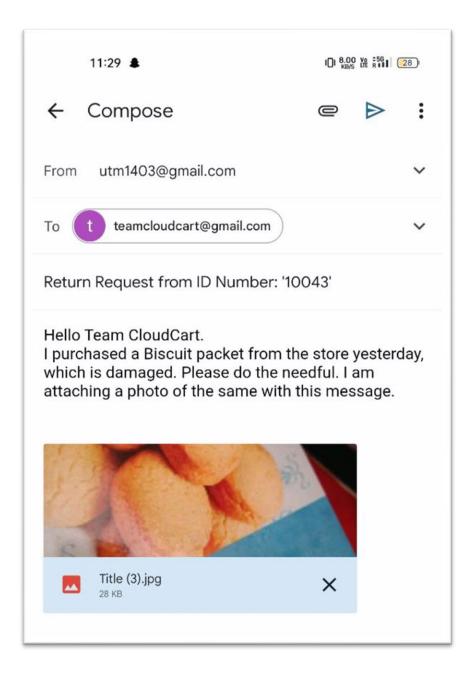
Customers can either choose the image from the gallery or take a photo and upload it.

The uploaded photo along with the problem description is stored in Realtime Firebase Database.

Upon pressing the send button, user is automatically redirected to Gmail Application with prefilled values to send the complaint mail to **teamcloudcart**.



Complaint Email



Upon pressing the send button in the return request window, user is redirected to Gmail Application in which the values are prefilled and the selected/taken photo is attached as an attachment.

From here user can send the mail to teamcloudcart.

Complaint Mail (received by teamcloudcart)

Teamcloudcart

receives the complaint mail from the user along with attached defective product photo.



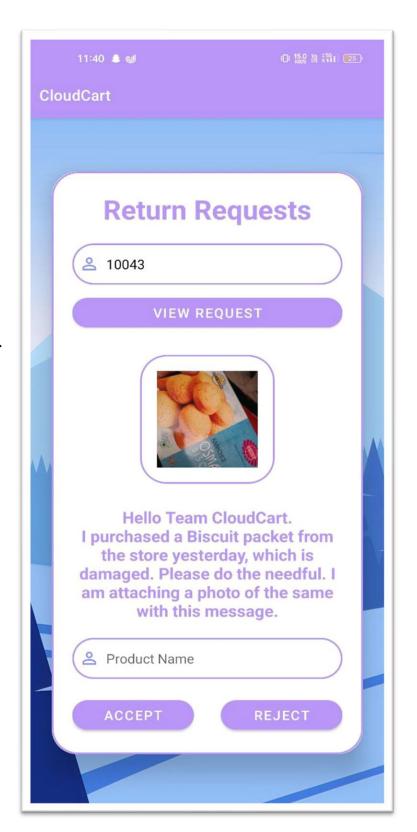
Return Requests (Store)

Stores can check the pending return requests of the customers by entering their Customer ID Number.

If a return request is pending, description of the product along with defective product picture is displayed.

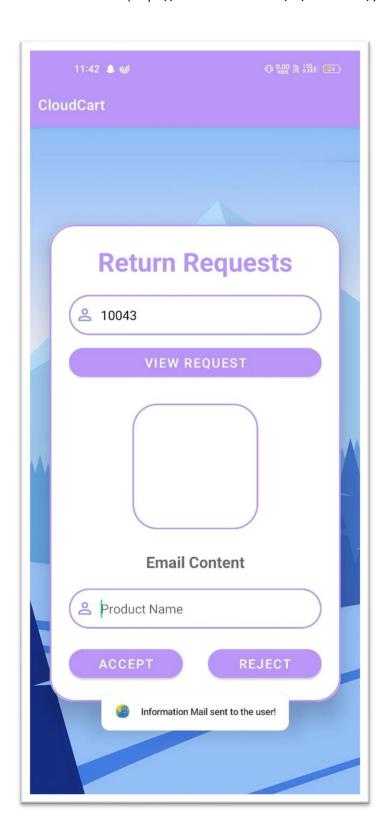
Store owner can either accept or reject the return request.

Either way, user is notified about the request through email.

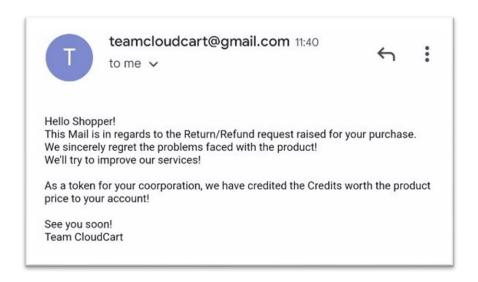


Post acceptance/denial of return request

Once the store owner accepts/rejects the return request, the request is removed from the Realtime Firebase Database.



Return Request Notification Mail (Request Accepted)



If a defect is found in the product sold, store owner accepts the return request and a notification mail stating that return request is accepted is sent to the customers registered Email ID.

Apart from this, credits worth the defective product price are automatically added to the customer's account.

Return Request Notification Mail (Request Rejected)



If no defect in the product sold is found, the customer is notified with an email. For further assistance, customers can directly write to the teamcloudcart using the email id provided.





Realtime Firebase Database

All the records are stored in Realtime Firebase Database under respective headings.

Realtime Firebase Storage

All the images including the Barcodes of the products and the QR Codes of the customers are stored in Realtime Firebase Database.

