EDUCARE

Areteans
Excel it

PEGA COMMUNITY HACKATHON 2022

EDUCARE
HIGH-LEVEL DOCUMENT
DOCUMENT VERSION 1.0
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Introduction

Application Name: Educare

Org Name: NEC

1.1 Need

There is a lot of need for funds in the educational sector. So, we see there is a lack of infrastructure, sanitary facilities, etc the main motto of Educare is to solve these needs.

1.2 Business Idea

Meet “Educare” a One-stop solution for contributing to educational sectors across the globe, powered by Pega Infinity. It is a next-generation contribution management solution designed to help educational sectors and contributors contribute from anywhere. Corruption can be reduced as funds will be directly credited to the respective educational institutions.

1.3 Objectives

Educare is not restricted to a particular need, educational institutions can provide any kind of essential is needed. Education institutions have an option to choose an emergency essential

where needs can be fulfilled faster. If it is an emergency essential, we are posting it on (https://www.facebook.com/EducareEmergencyEssentials)as well as notification will be sent to the frequent contributors. We are using social media to make awareness among the contributors to fulfil the needs of emergency essentials. Global issues regarding the

educational essentials can be reduced using Educare. Contributors can do their contributions Across the globe.

High-Level Process Flow

Essentials:

- In the essentials case flow, the educational institutions will be providing the details regarding their location, and they must enter the essentials or needs for their institution.
- So, there are two different essentials, one is a normal essential and the other is an emergency essential. For a better understanding please go through the below example.

Emergency Essentials:

Whenever there are floods or any natural calamities there might be a huge loss or effect that should be immediately solved.

Essentials (Normal):

All the needs that the educational institutions need like food, books, sanitation, infrastructure, etc.

- So, the institution has an option to choose if it is an emergency essential or a normal essential.
- If the essential is chosen as an emergency, then these essentials will be verified by the respective district officer.
- After the verification, these essentials will be added to the essentials list that will be viewed by the contributors.
- All the emergency essentials will be posted on the Educare Emergency Essentials Facebook page. So that the contributors will be aware that the emergency essential is added to the essentials list.
- Notifications will be sent to the frequently donated contributors whenever an emergency essential is added.

Endowment:

- In the endowment case flow, the contributors can view all the essentials added by the educational institutions
- The contributors have an option to filter the essentials based on the required amount.
- Contributors can filter the essentials based on location as well.
- So, the contributor can contribute only if they logins into the application, They can choose the essential they want to contribute, and they can contribute a full amount or a partial amount. For a better understanding please go through the below example.

Full Amount: If the required amount is 5,000. Then the contributor has to pay the full amount.

Partial Amount: If the required amount is 5,000. Then the contributor can enter the amount he/she wishes to contribute.

- The proofs will be added only for the closed contributions (the required amount is fulfilled).
- If is it a full contribution, the educational institution must submit proof of the amount that they have used for their essentials or needs.
- Then these proofs will be sent for the contributors to view.
- Contributors will receive a notification whenever there are any emergency essentials added to the essentials list.

High-Level Design

3.1 Key Factors Influencing Design

a. Flexibility and Extensibility: Educare platform has the ability to contribute from across the globe and educational institutions can add their essentials.
b. Maintainability and Readability: It is easy to maintain, as it is based on low code-based Pega Platform. Extensive documentation has been done to enhance the readability of the platform.
c. Performance and Efficiency: Response time for Educare is kept in light while designing the platform. Data pages with limited database browsing are used to reduce the response time.
d. Availability, Robustness, Fault Tolerance and Reliability: It is built as per Pega recommendations and adheres to Pega Guard Rails.
e. Usability and Accessibility: Easy to use by the contributors and the educational institutions.
f. Functionality: Educare is built on conformity to real life incident management system. It is built with actual requirements and specifications.

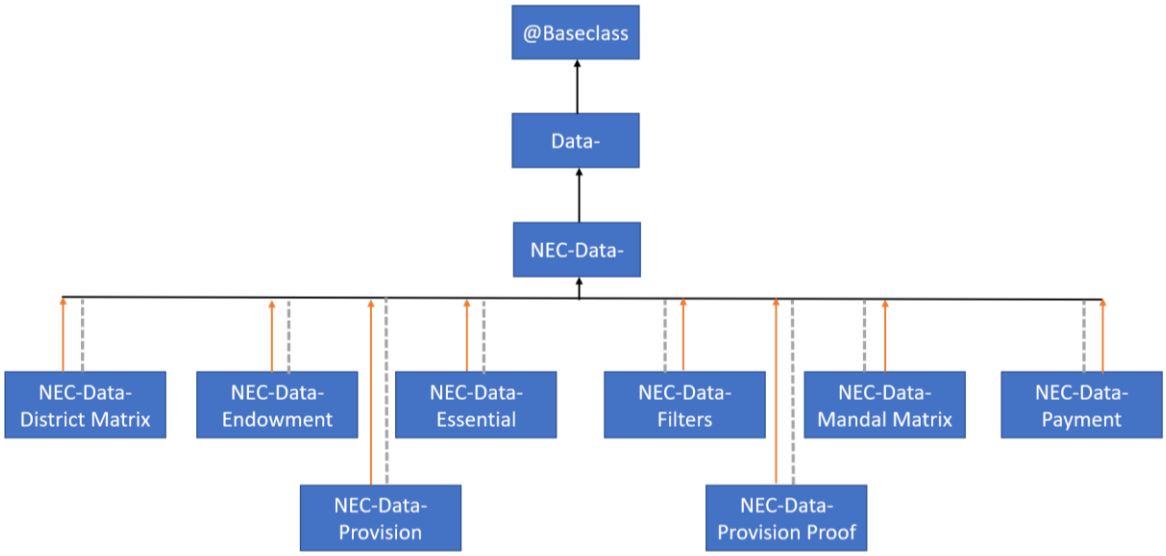
3.2 Class Structure

1. NEC-FW-Educare-Work-Endowment:

	Name	Label	Inheritance type
1	NEC-FW-Educare-Work-Endowment	Endowment	Both
2	NEC-FW-Educare-Work	Educare case layer	Pattern
3	NEC-FW-Educare	Base framework class	Pattern
4	NEC-FW	Organization framework class	Pattern
5	NEC	Top level class	Directed
6	Work-Cover-	Cover classes	Both
7	Work-	Case	Directed
8	@baseclass	@baseclass	NA

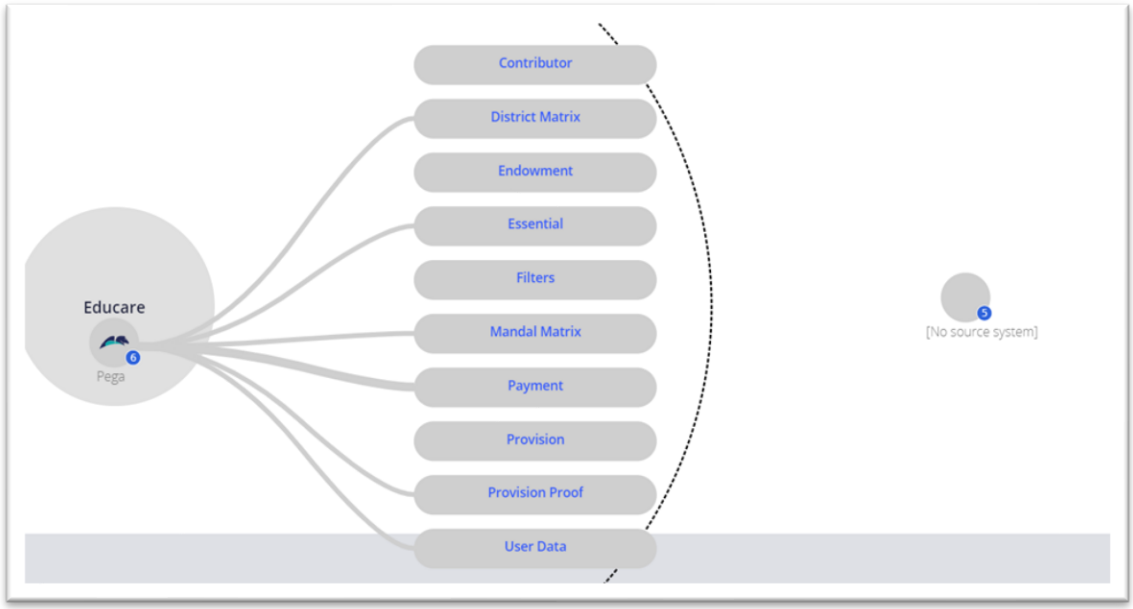
2. NEC-FW-Educare-Work-Essentials:

	Name	Label	Inheritance type
1	NEC-FW-Educare-Work-Essentials	Essentials	Both
2	NEC-FW-Educare-Work	Educare case layer	Pattern
3	NEC-FW-Educare	Base framework class	Pattern
4	NEC-FW	Organization framework class	Pattern
5	NEC	Top level class	Directed
6	Work-Cover-	Cover classes	Both
7	Work-	Case	Directed
8	@baseclass	@baseclass	NA


@Baseclass
Data-
NEC-Data-
NEC-Data-
District Matrix
NEC-Data-
Endowment
NEC-Data-
Provision
NEC-Data-
Essential
NEC-Data-
Filters
NEC-Data-
Provision Proof
NEC-Data-
Mandal Matrix
NEC-Data-
Payment

3.3 Data Model

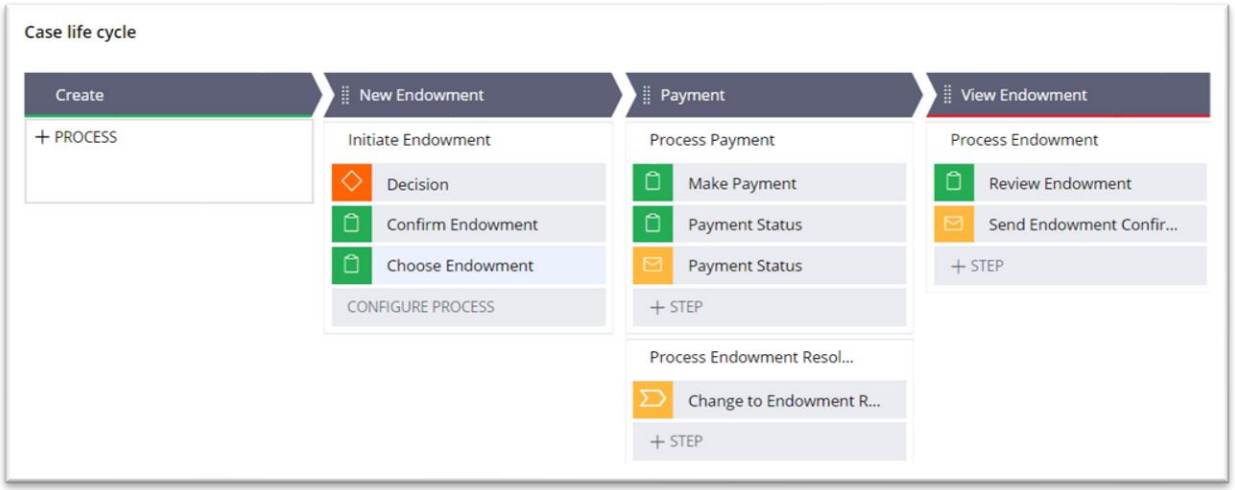
1. Contributor: This data type stores the details about the contributor
2. District Matrix: This data type stores the details of districts of and states of schools.
3. Essential: This data type stores the details of essentials and needs of educational institutions.
4. Filters: This data type stores the details of filters that are chosen by contributor.
5. Mandal Matrix: This data type stores the details of district and Mandal of the school.
6. Payment: This data type stores the details of payment of contributors.
7. Provision Proof: This data type stores the details of proofs submitted by the management.
8. User Data: This data type stores the data to whom the notifications should be sent.



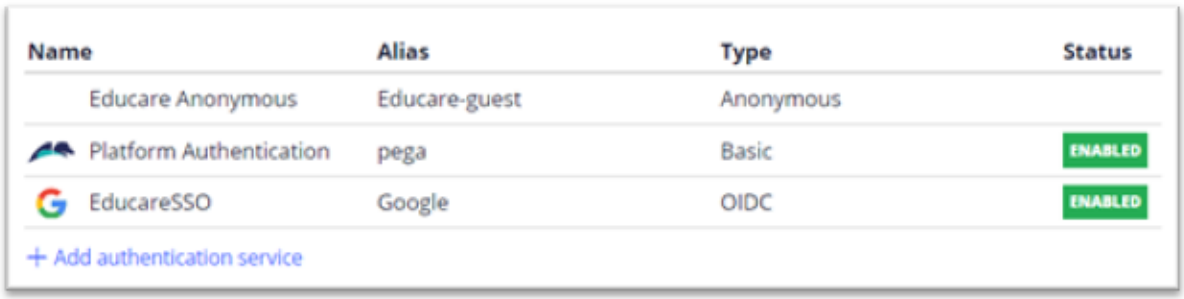
3.4 Case Design Overview

Essentials Case:

Endowment Case:



3.5 Authentications



3.6 Actors, Access Groups & Roles

Actors:

- Contributors
  The Contributors are the actors who will contribute to the schools/govt schools / Institutions whenever an essential is added it will add to list so the contributors can be able to contribute.
- Management
  The Management are the actors where the school institutions will be able to register the essentials.
- District Officer
  The District Officers are the actors where an officer will be able to approve the requests of emergencies.

Access Groups:

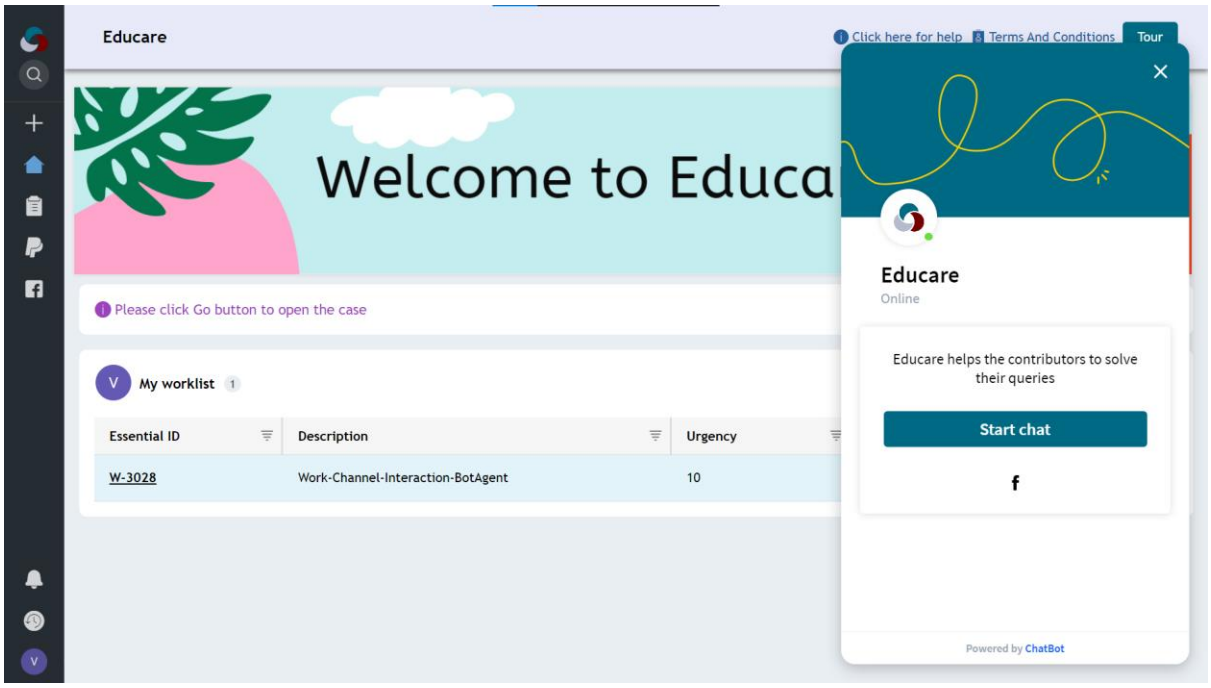
- Educare:Contributor
- Educare:Management
- Educare:DistrictOfficer

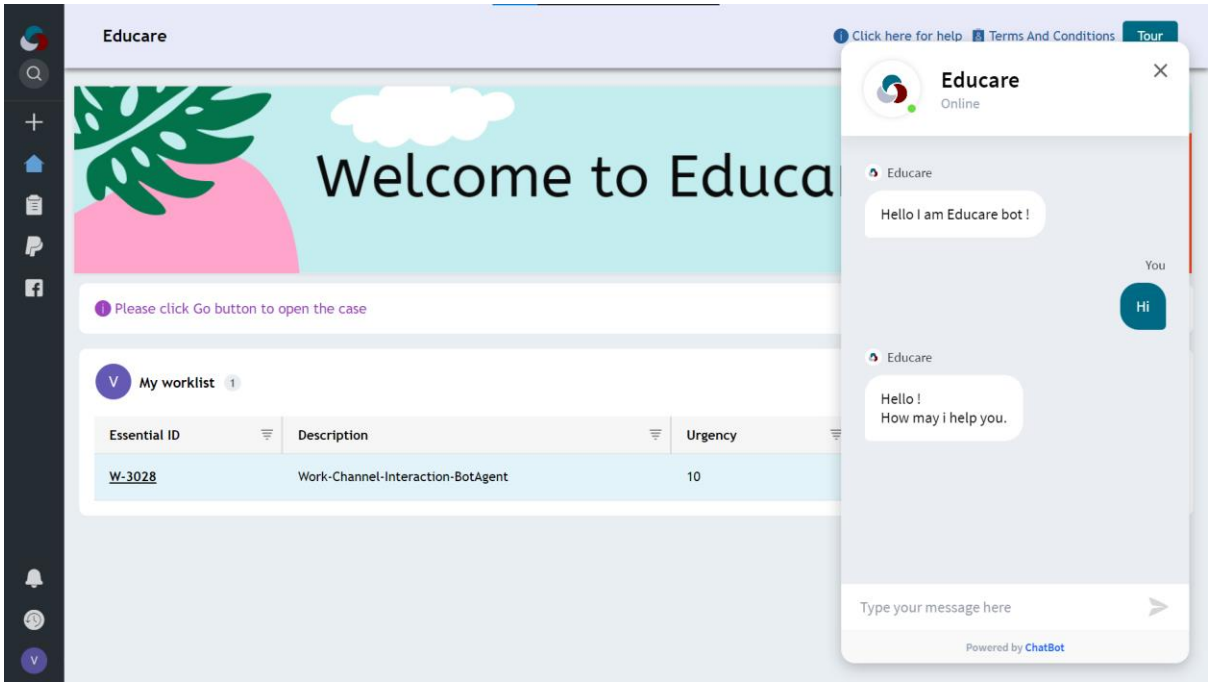
Portals:

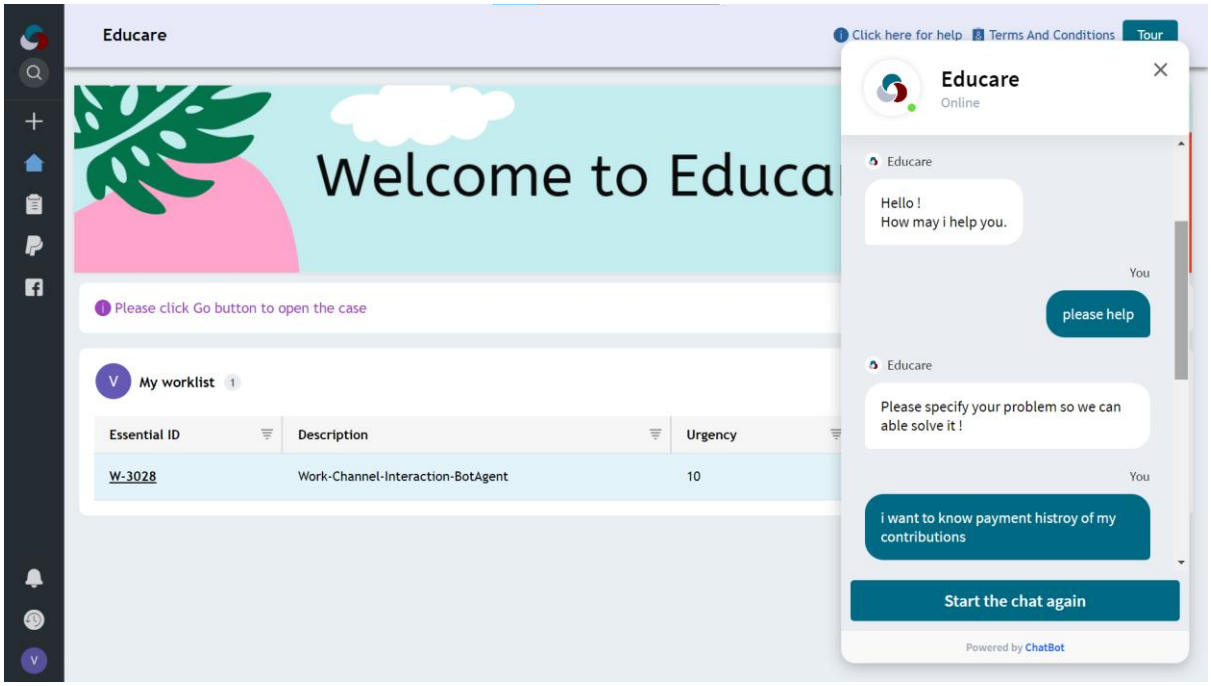
- Contributor
- Management

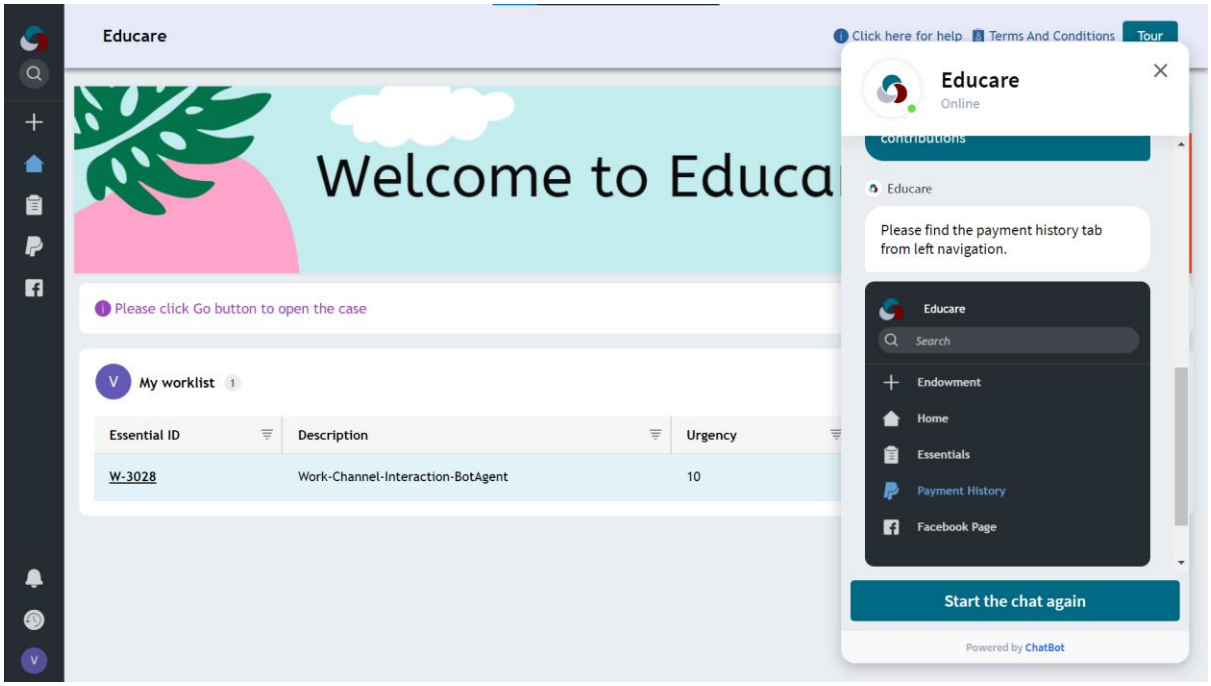
Key Features

4.1 Chatbot

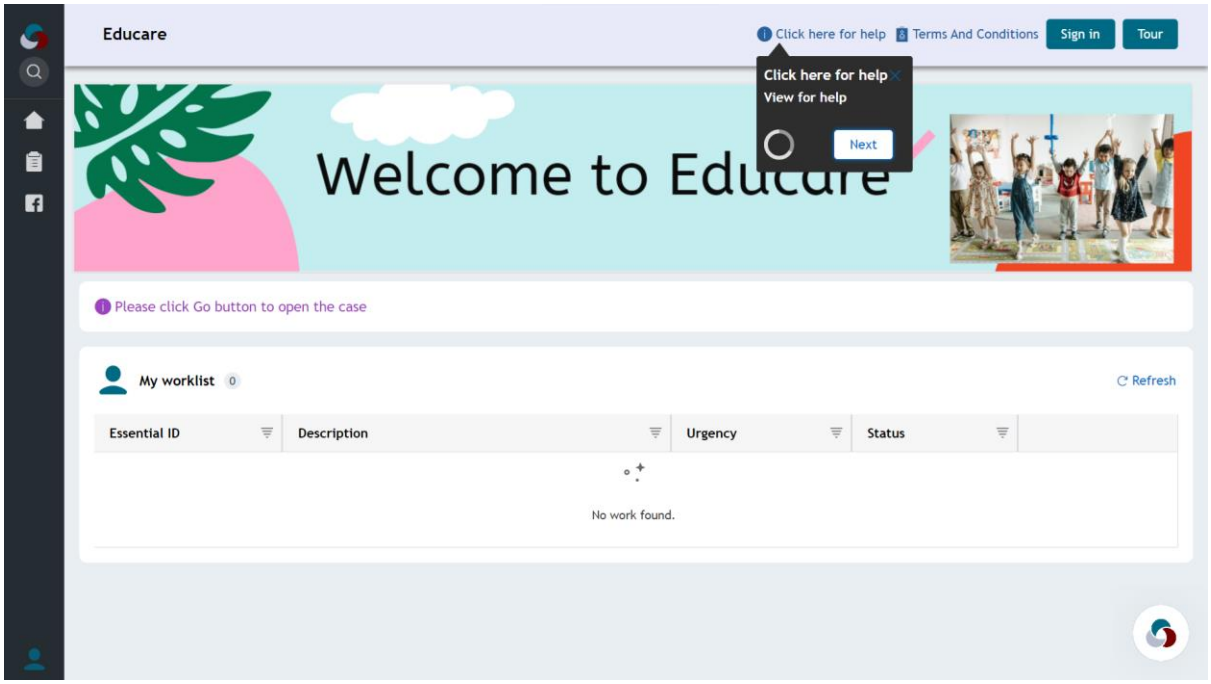


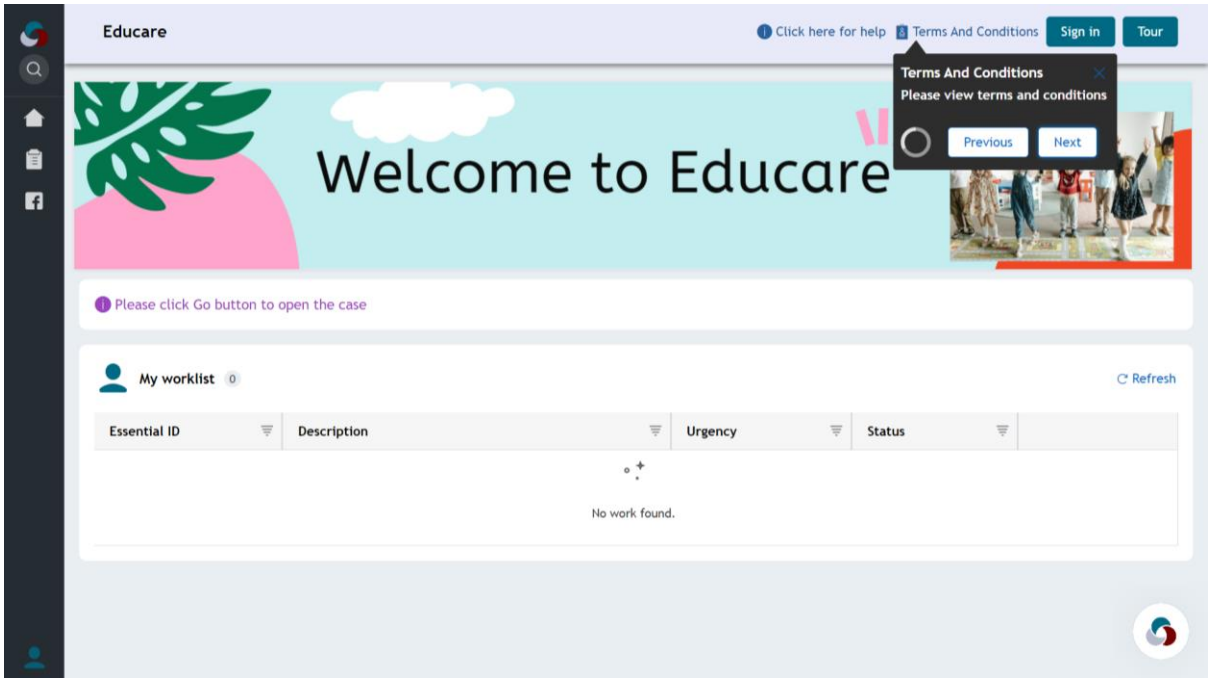



Educare
Click here for help
Terms And Conditions
Tour
Welcome to Educa
Please click Go button to open the case
My worklist
1
Essential ID
Description
Urgency
W-3028
Work-Channel-Interaction-BotAgent
10
Educare
Online
Educare
Hello !
How may i help you.
You
please help
Educare
Please specify your problem so we can able solve it !
You
i want to know payment histroy of my contributions
Start the chat again
Powered by ChatBot

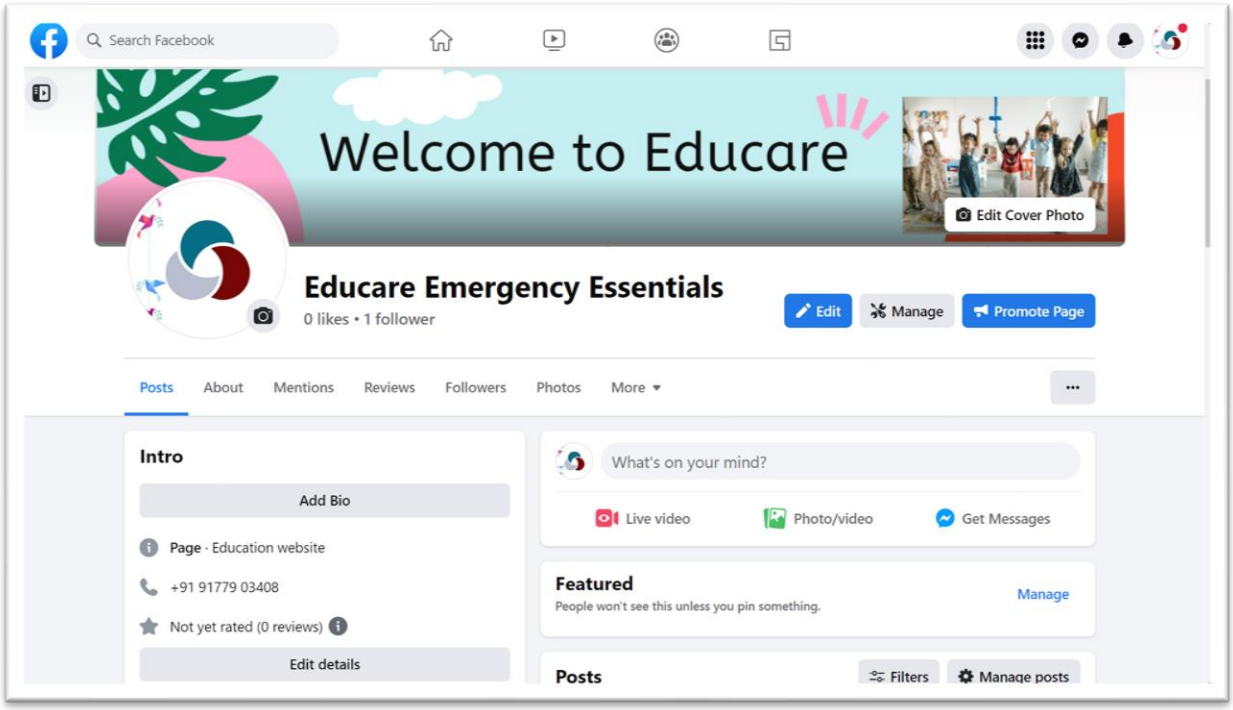

Educare
Click here for help
Terms And Conditions
Tour
Welcome to Educa
Please click Go button to open the case
My worklist
1
Essential ID
Description
Urgency
W-3028
Work-Channel-Interaction-BotAgent
10
Educare
Online
Educare
Please find the payment history tab from left navigation.
Educare
Search
Endowment
Home
Essentials
Payment History
Facebook Page
Start the chat again
Powered by ChatBot

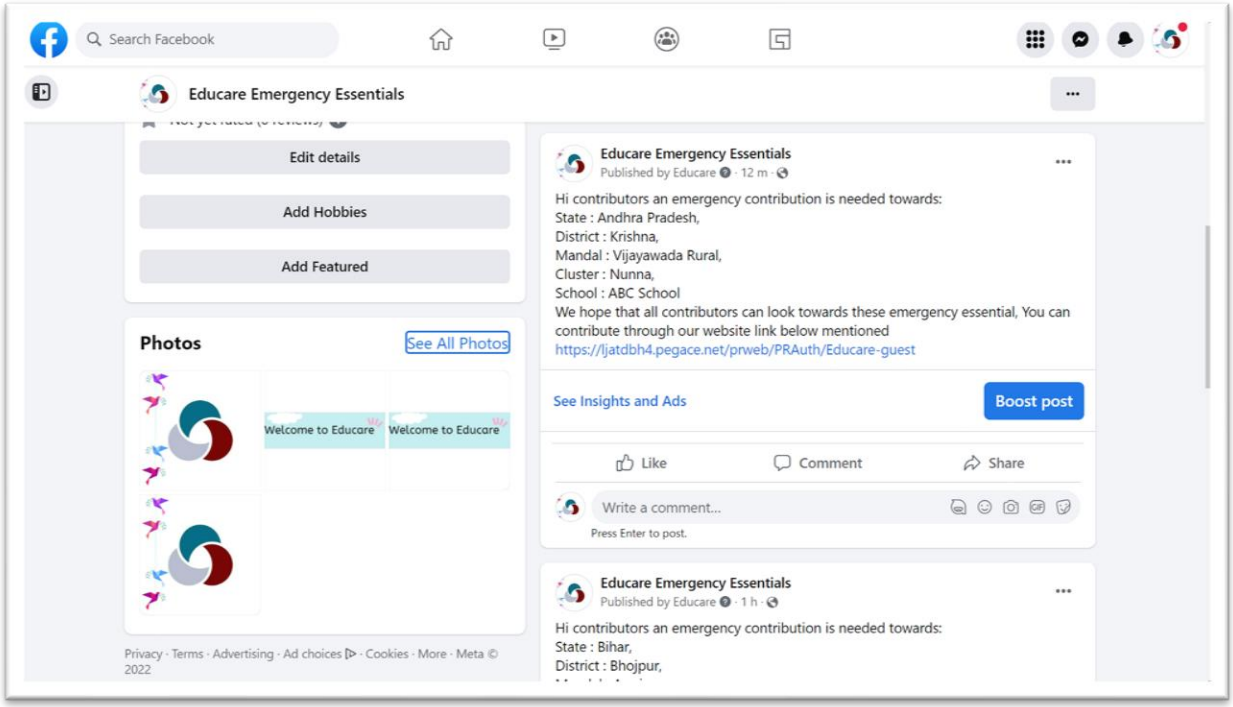
4.2 Guided Tour

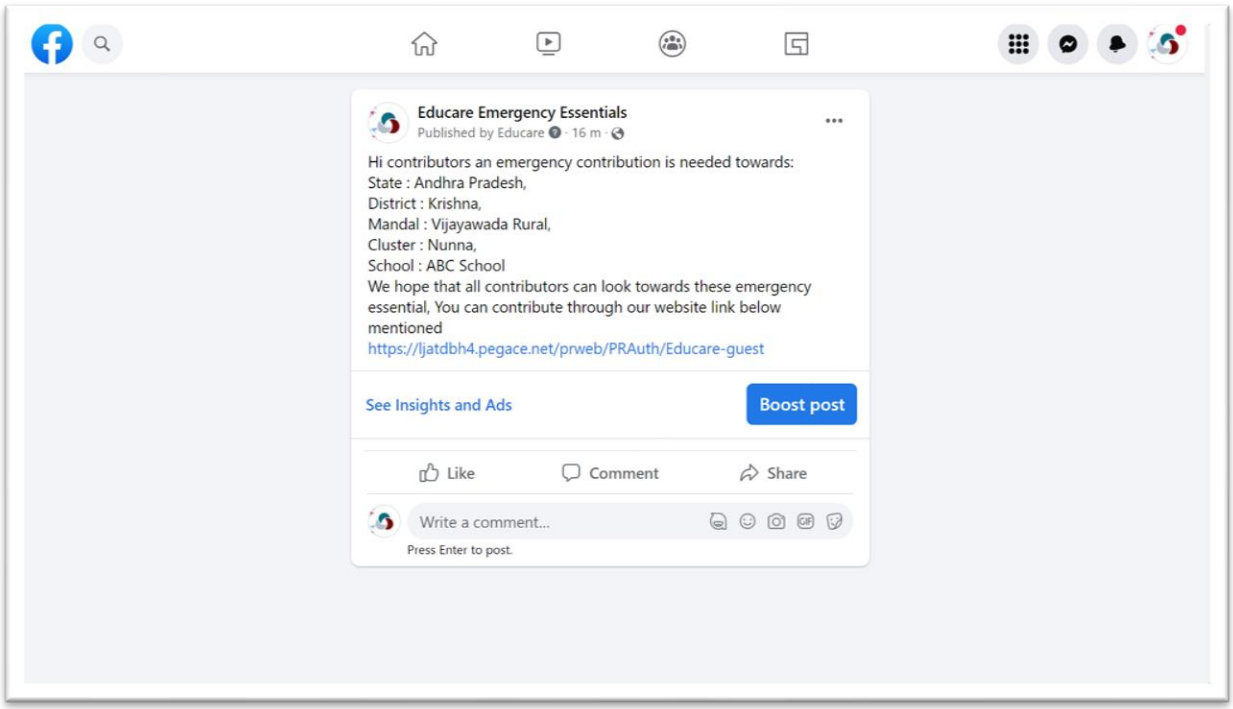




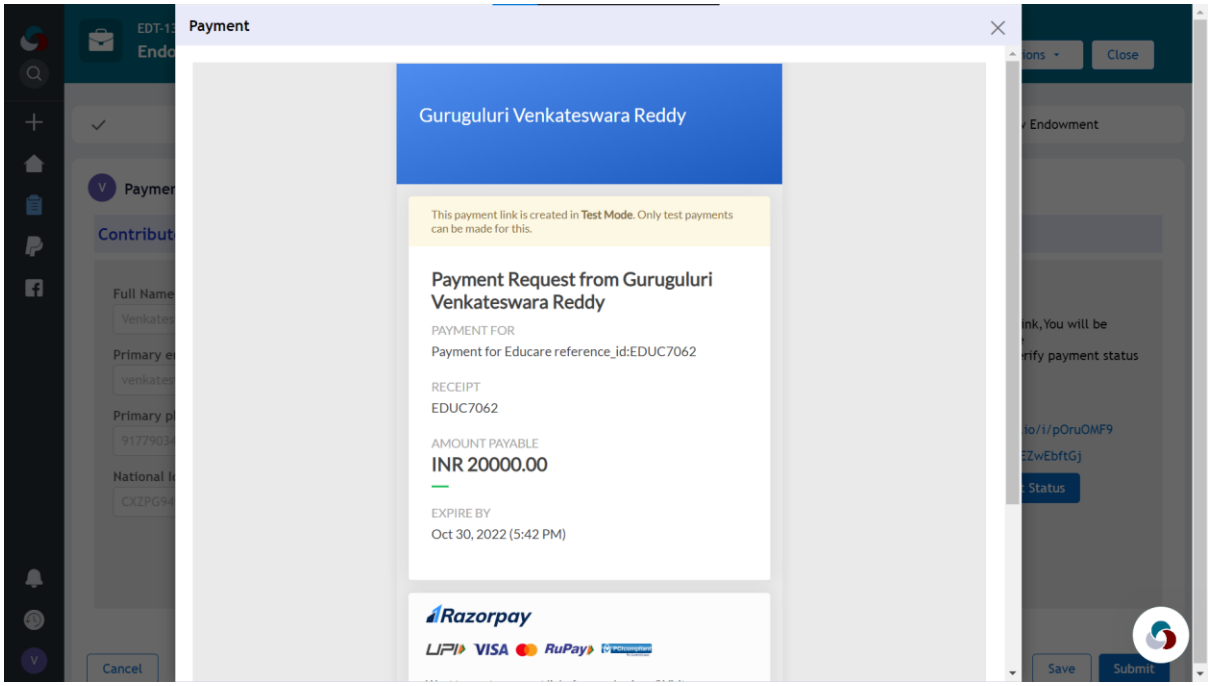
4.3 Facebook Integration

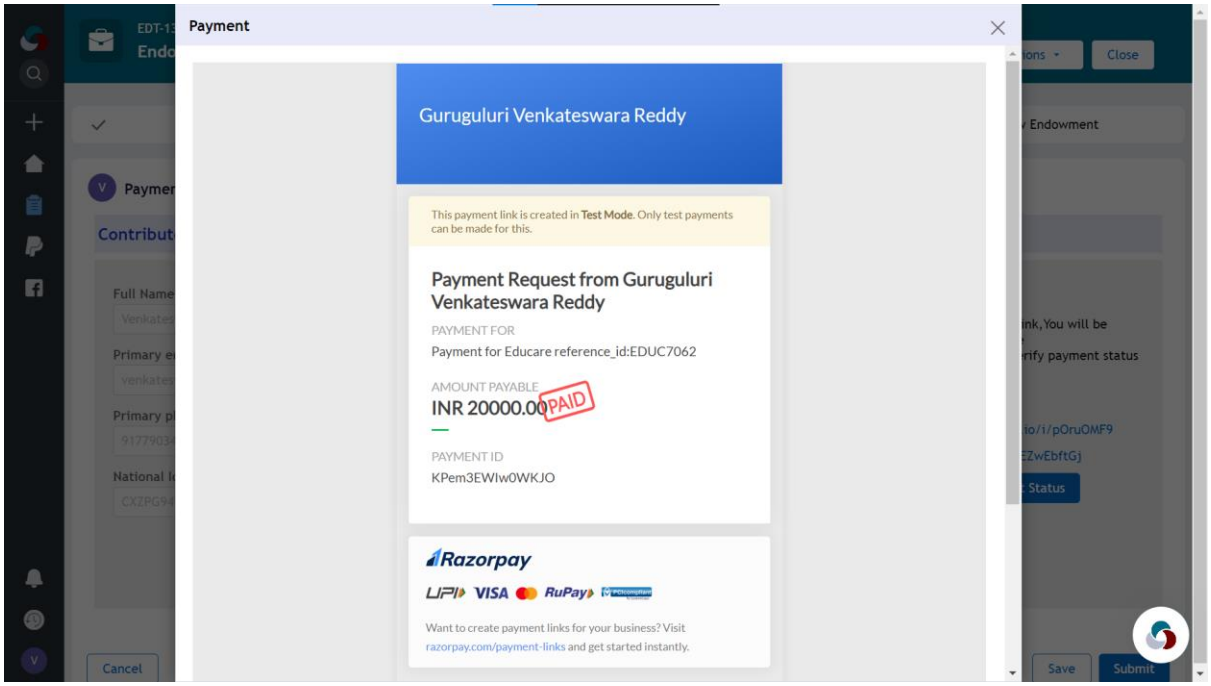




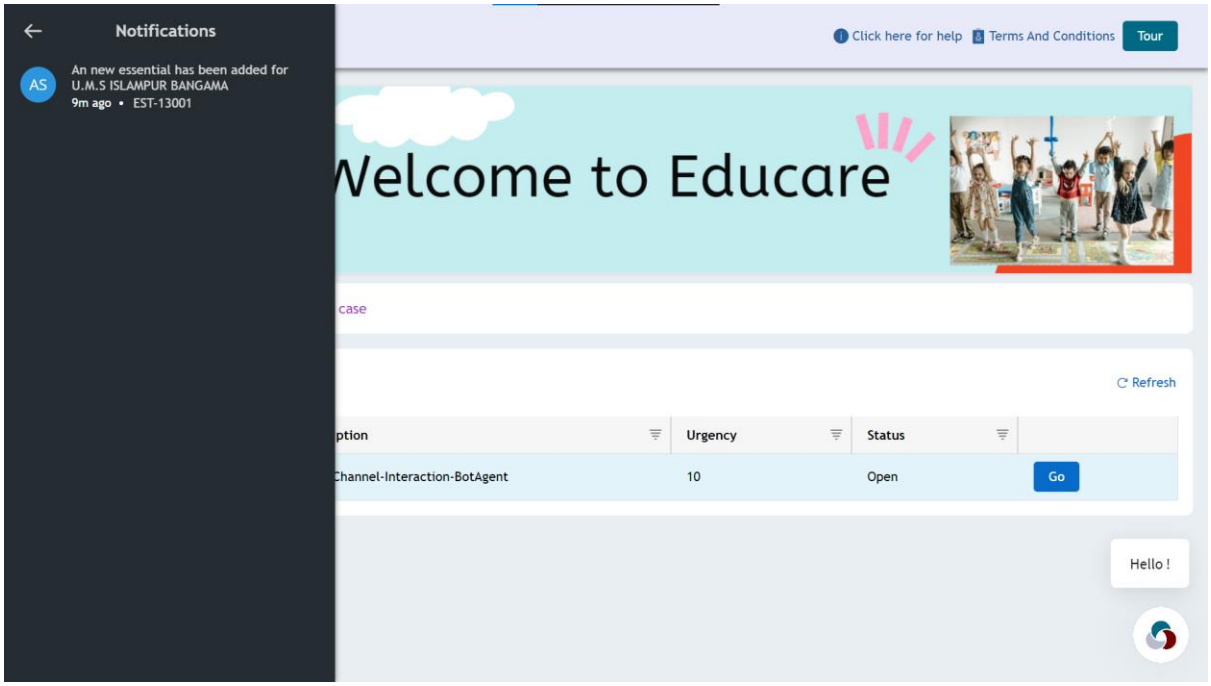

Educare Emergency Essentials
Published by Educare · 16 m ·
Hi contributors an emergency contribution is needed towards:
State : Andhra Pradesh,
District : Krishna,
Mandal : Vijayawada Rural,
Cluster : Nunna,
School : ABC School
We hope that all contributors can look towards these emergency essential, You can contribute through our website link below mentioned
https://ljatdbh4.pegace.net/prweb/PRAuth/Educare-guest
See Insights and Ads
Boost post
Like
Comment
Share
Write a comment...
Press Enter to post.

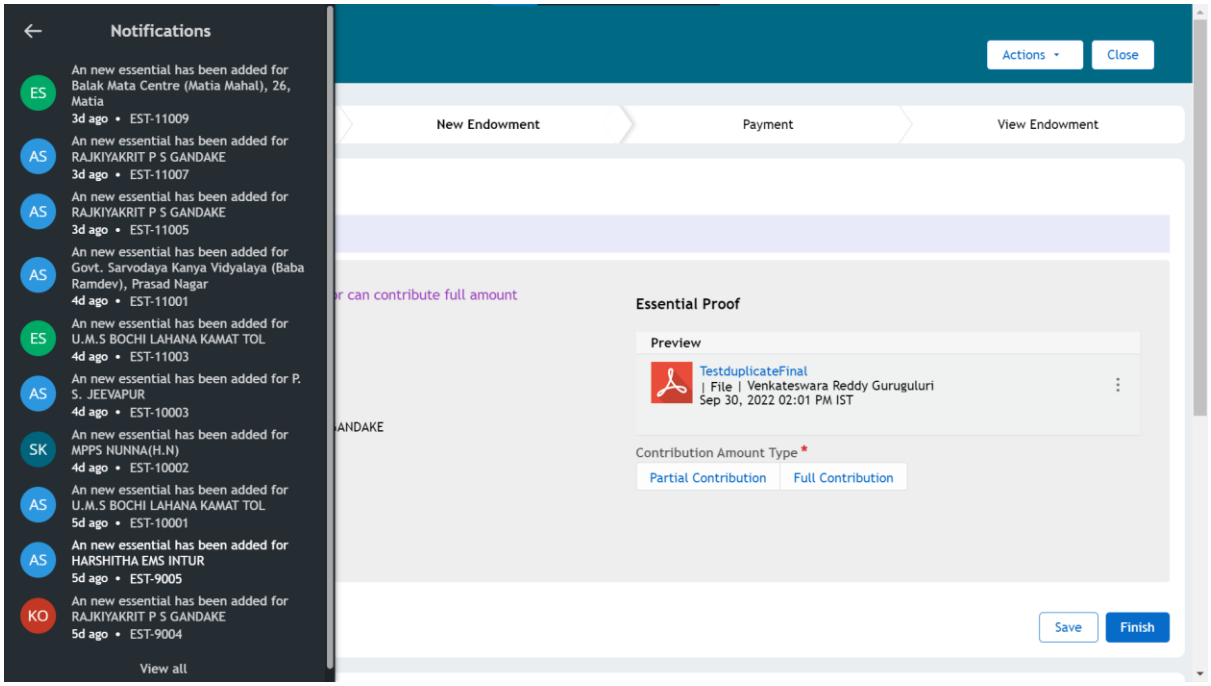
4.4 Razor Pay Integration



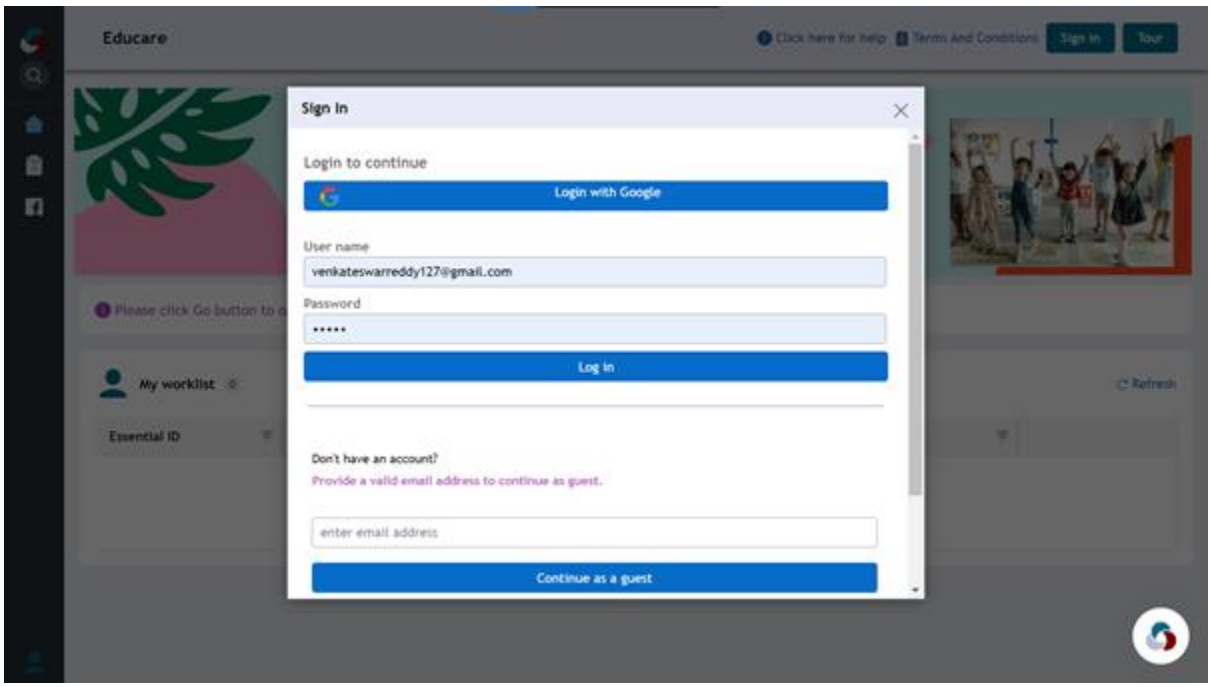


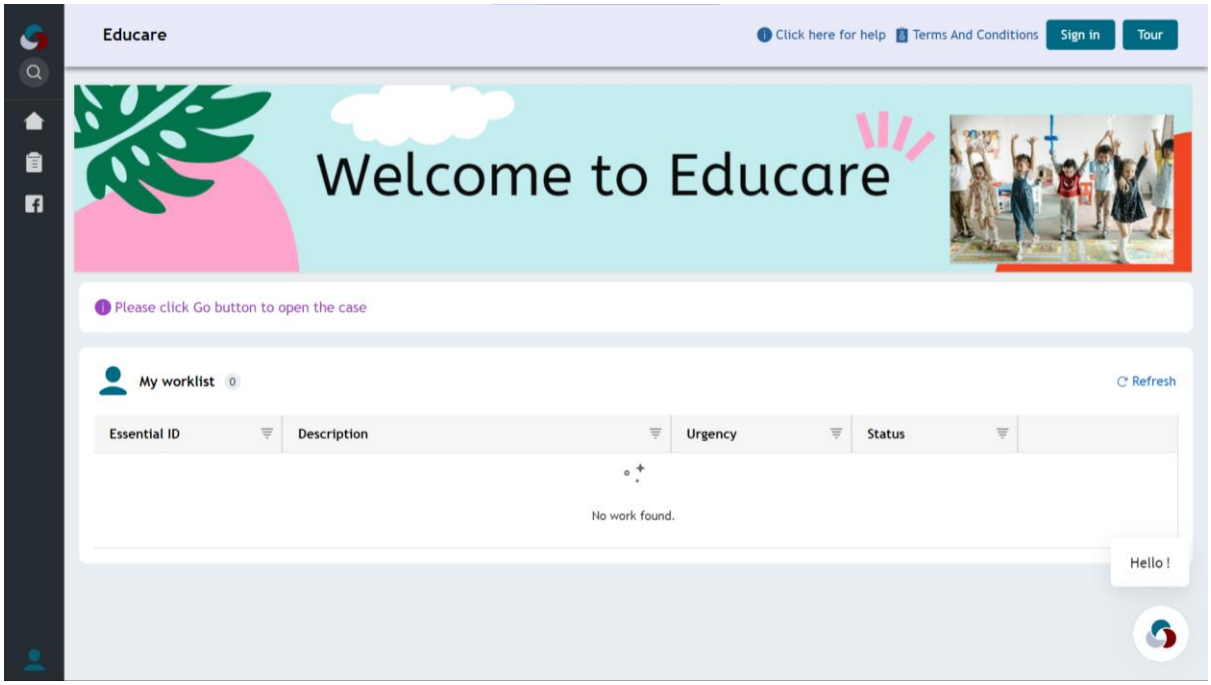
4.5 Web Gadget Notification



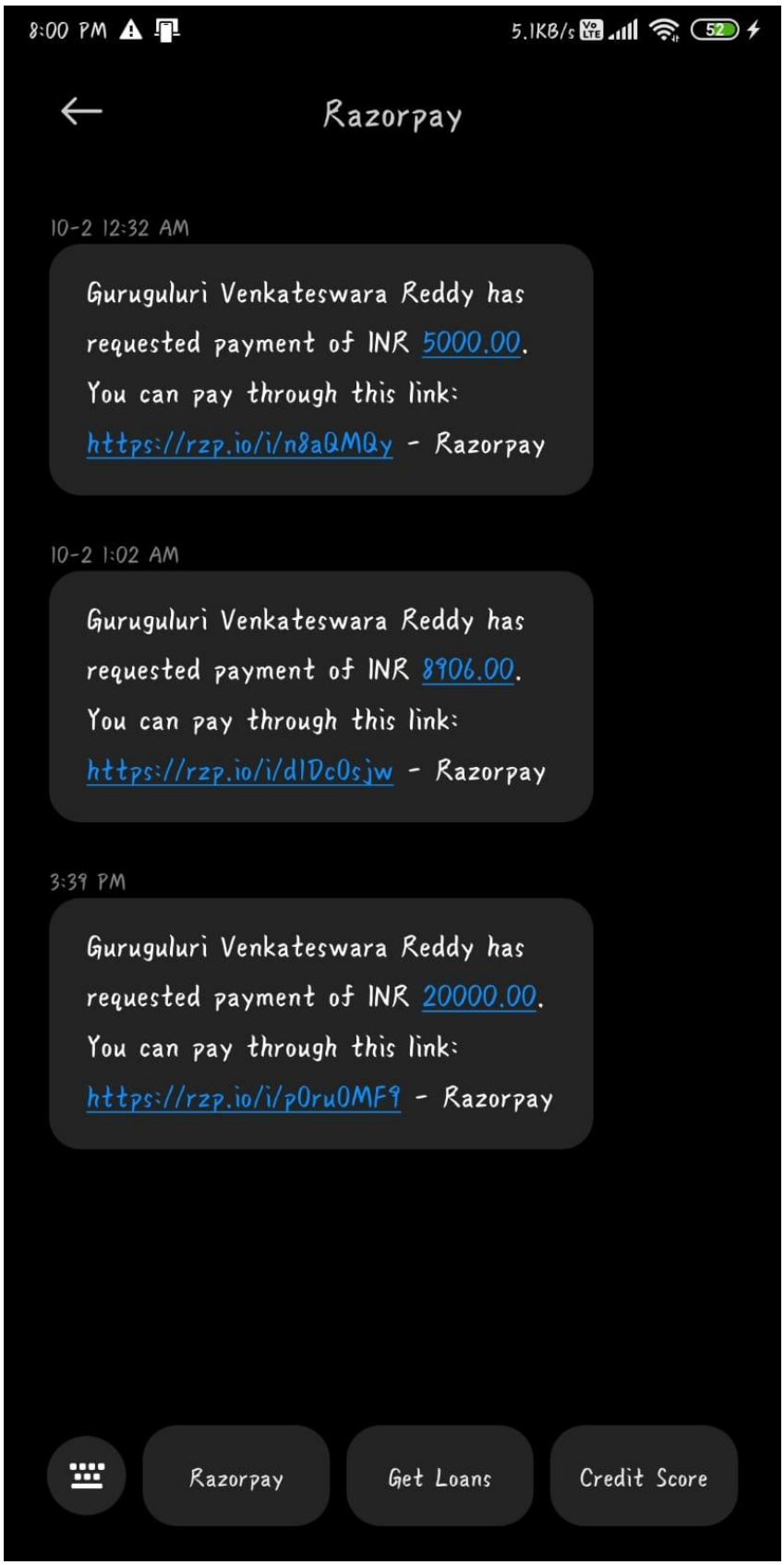


4.6 Google SSO & Anonymous Auth

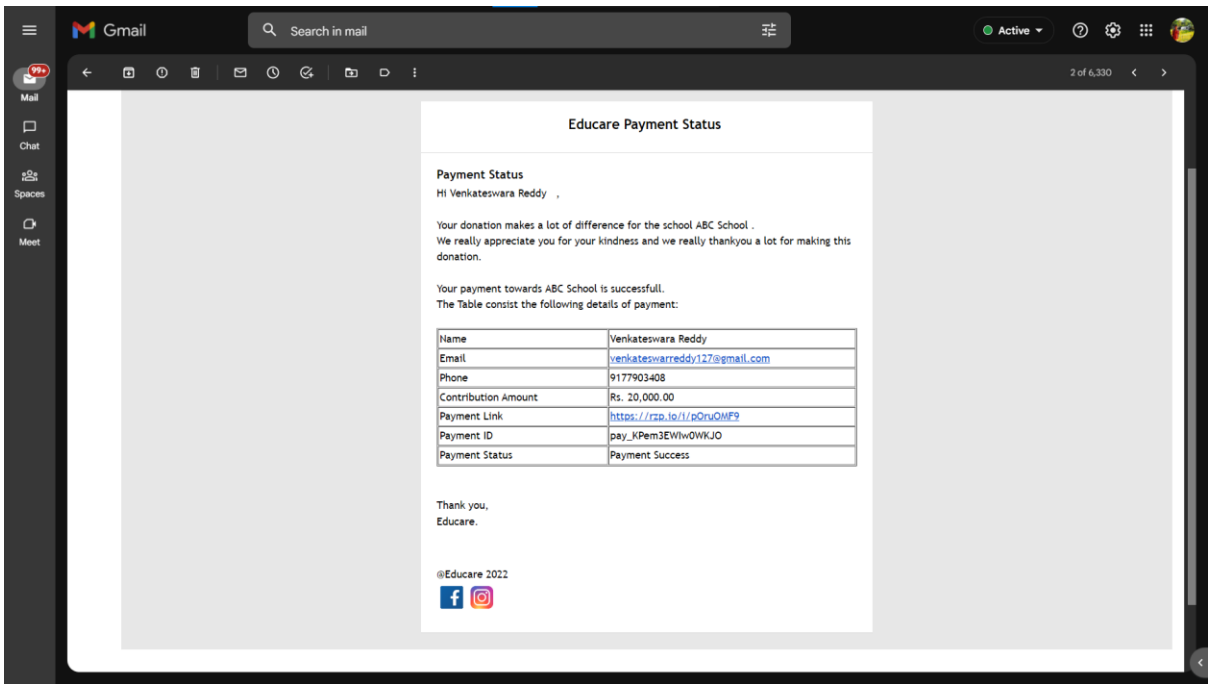


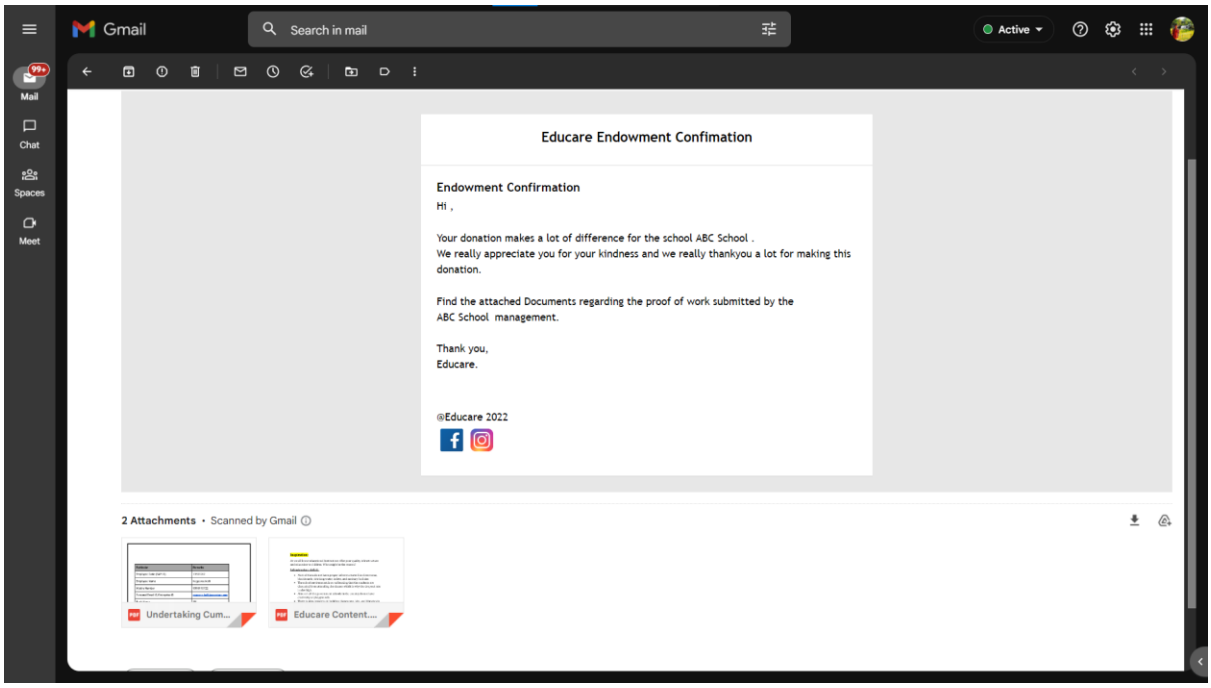


4.7 SMS Service through Razor-Pay

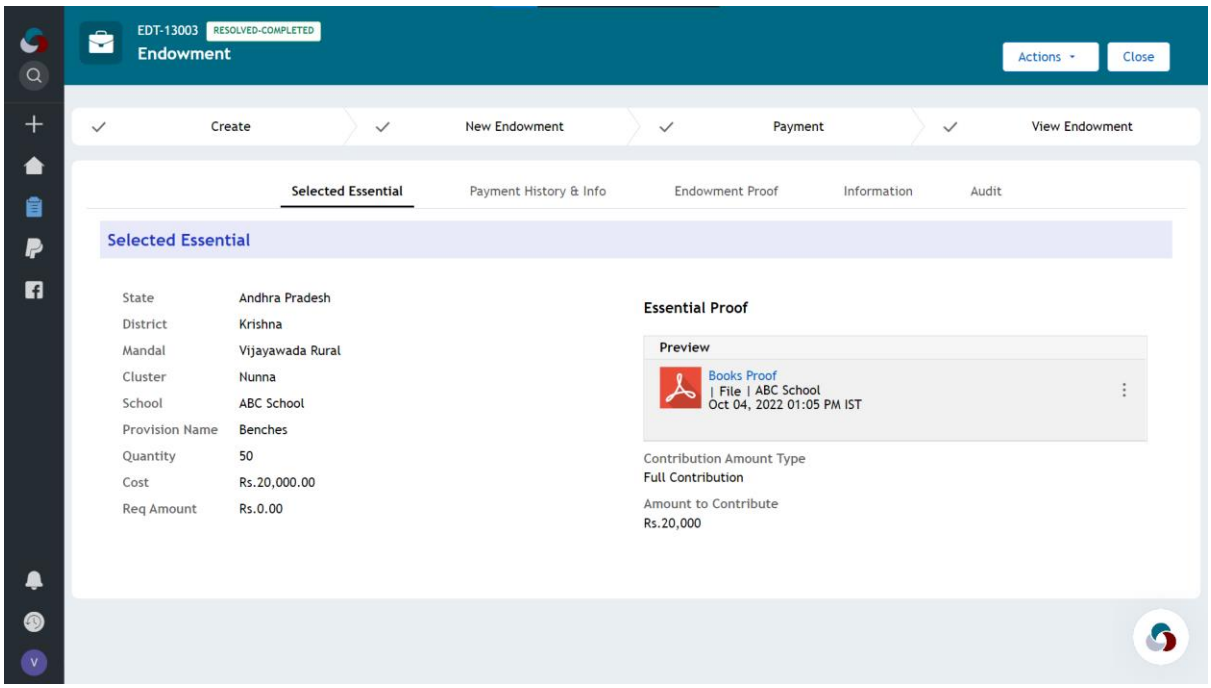


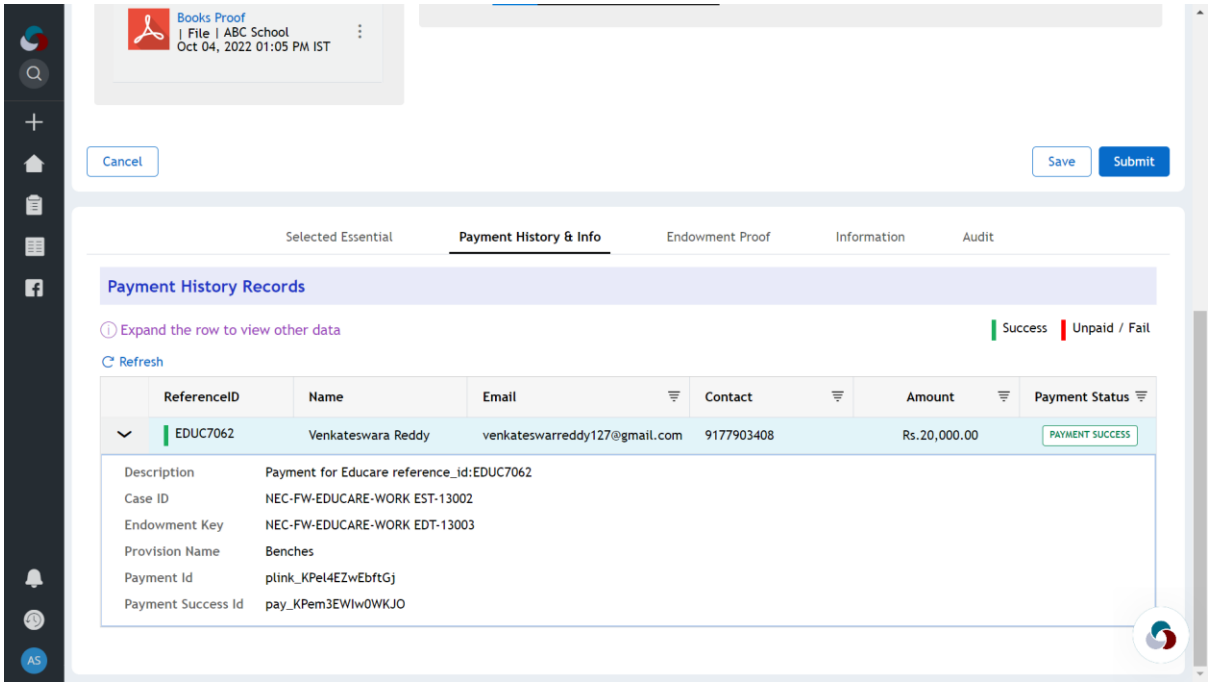
4.8 Email Notifications





4.9 Case 360


EDT-13003
RESOLVED-COMPLETED
Endowment
Actions
Close
Create
New Endowment
Payment
View Endowment
Selected Essential
Payment History & Info
Endowment Proof
Information
Audit
Selected Essential
State
Andhra Pradesh
District
Krishna
Mandal
Vijayawada Rural
Cluster
Nunna
School
ABC School
Provision Name
Benches
Quantity
50
Cost
Rs.20,000.00
Req Amount
Rs.0.00
Essential Proof
Preview
Books Proof
| File | ABC School
Oct 04, 2022 01:05 PM IST
Contribution Amount Type
Full Contribution
Amount to Contribute
Rs.20,000


Books Proof
| File | ABC School
Oct 04, 2022 01:05 PM IST
Cancel
Save
Submit
Selected Essential
Payment History & Info
Endowment Proof
Information
Audit
Payment History Records
Expand the row to view other data
Success
Unpaid / Fail
Refresh
ReferenceID
Name
Email
Contact
Amount
Payment Status
EDUC7062
Venkateswara Reddy
venkateswarreddy127@gmail.com
9177903408
Rs.20,000.00
PAYMENT SUCCESS
Description
Payment for Educare reference_id:EDUC7062
Case ID
NEC-FW-EDUCARE-WORK EST-13002
Endowment Key
NEC-FW-EDUCARE-WORK EDT-13003
Provision Name
Benches
Payment Id
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