

Bharat Bijili Corporation (BBC)

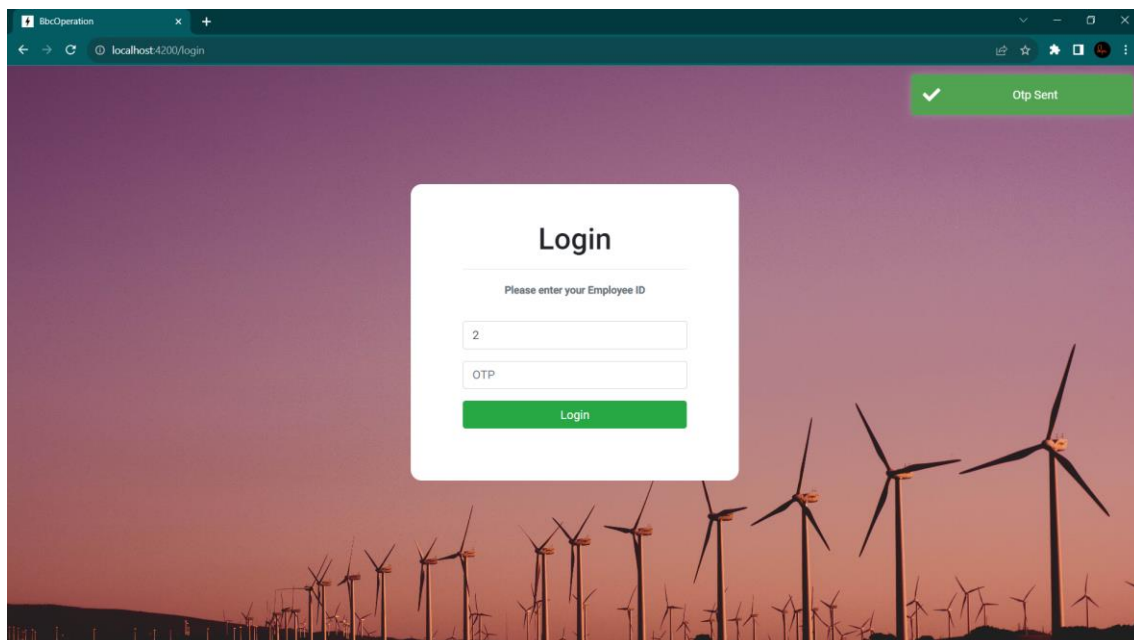
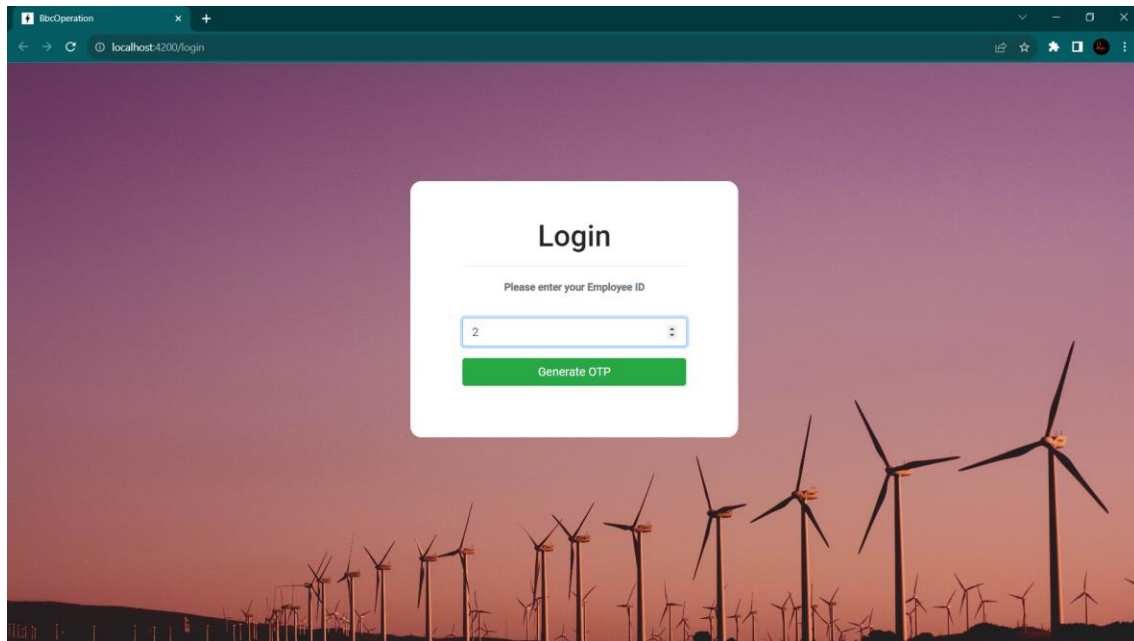
Company-Facing Utility Billing Application

User Guide

1. Log In

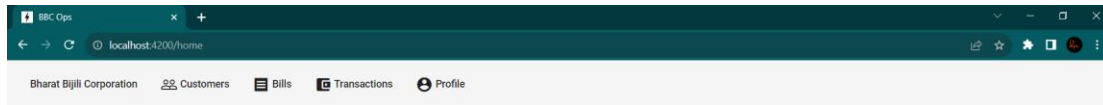
Users can enter their Employee ID and generate an OTP. The OTP will be sent to their registered email address.

(For testing purposes, the OTP can found in the console.)



2. Home page

After logging in, users will be directed to the home page of the application.



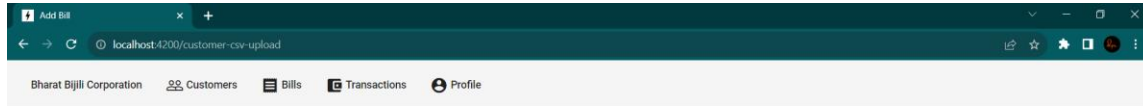
3. Add Customer

Users (employees) can register new customers on this page. To avoid duplication, the system checks if a customer already exists based on the provided mobile number. If a customer with the same mobile number is found, the system will prevent the creation of a duplicate entry.

A screenshot of the 'Add Customer' form in the application. The browser's address bar shows 'localhost:4200/add-customer'. The page has the same dark teal header as the home page. The form is titled 'Add Customer' and contains four input fields: 'Customer Name *' with the value 'Alvin', 'Customer Phone *' with the value '9876543210', 'Customer Email Address *' with the value 'alvin@gmail.com', and 'Customer Address *' with the value '207 Street, Pune'. Below the form is a purple 'Save' button.

4. Register customers by CSV file

Employees can register customers by uploading a CSV (Comma-Separated Values) file. The CSV file should include the following customer details: Customer Name, email, telephone, and address. If any of these fields are not valid or missing in a record, that specific record will be skipped during the registration process.



Upload Customer CSV File

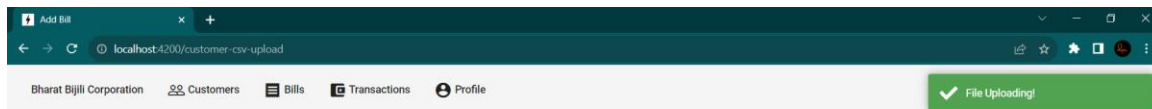
Upload a CSV file containing customer data:
Customer Name, email, telephone, address

Choose File customer.csv

Upload

Uploaded customers:

Name	Email Address	Mobile Number	Address
------	---------------	---------------	---------



Upload Customer CSV File

Upload a CSV file containing customer data:
Customer Name, email, telephone, address

Choose File customer.csv

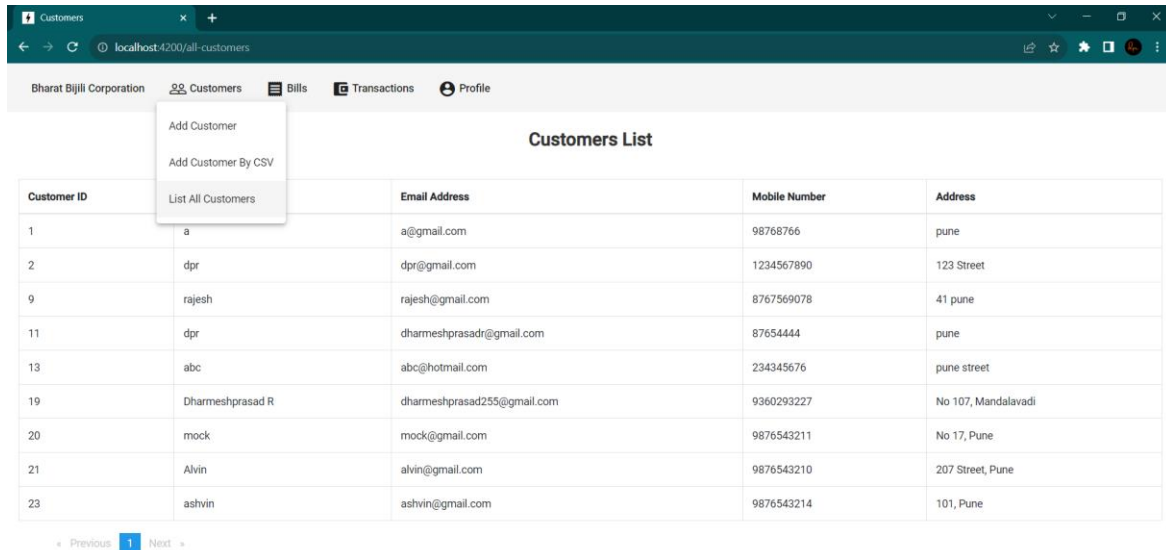
Upload

Uploaded customers:

Name	Email Address	Mobile Number	Address
rajesh	rajesh@gmail.com	8767569078	41 pune
dpr	dharmeshprasadr@gmail.com	87654444	pune

5. Customer List

Users can see a list of all registered customers in the system.



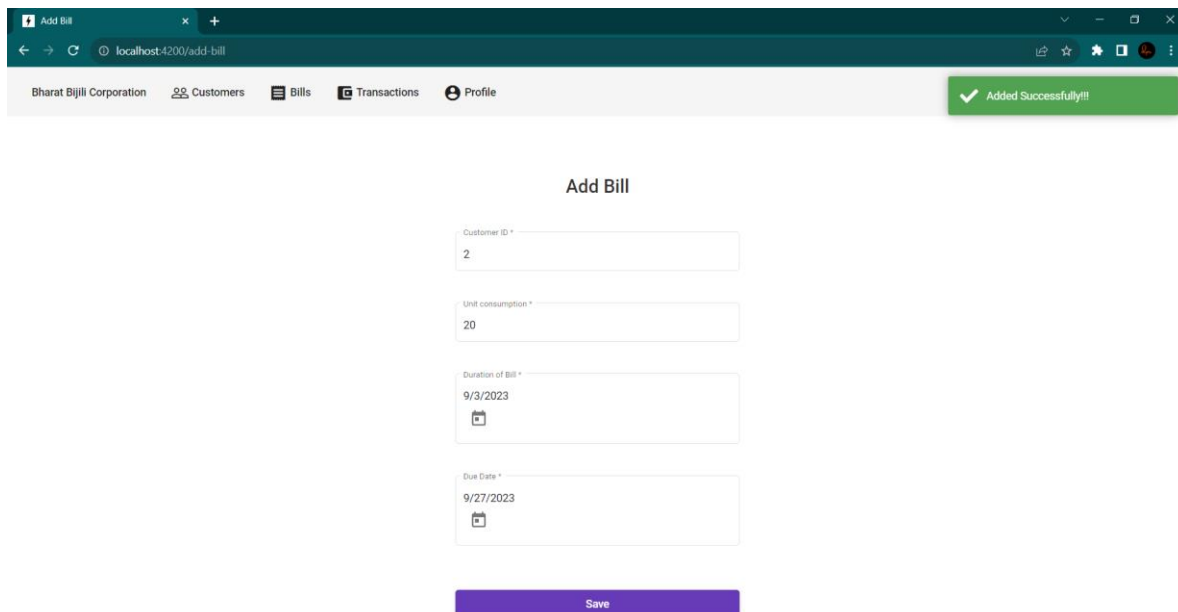
Customer ID	Email Address	Mobile Number	Address
1	a@gmail.com	98768766	pune
2	dpr@gmail.com	1234567890	123 Street
9	rajesh@gmail.com	8767569078	41 pune
11	dharmeshprasad@gmail.com	87654444	pune
13	abc@hotmail.com	234345676	pune street
19	Dharmeshprasad R	9360293227	No 107, Mandalavadi
20	mock@gmail.com	9876543211	No 17, Pune
21	Alvin@gmail.com	9876543210	207 Street, Pune
23	ashvin@gmail.com	9876543214	101, Pune

6. Add bill

Users can add a bill to a registered customer,

The customer must already exist in the system, identified by their customer ID. If the customer does not exist, the system will not accept the bill.

The due date of the bill must be greater than the date of the bill itself to ensure proper billing.



Customer ID *

2

Unit consumption *

20

Duration of Bill *

9/3/2023

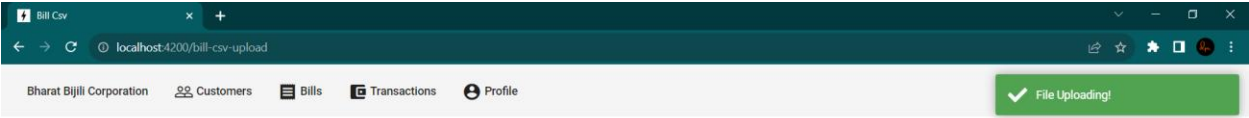
Due Date *

9/27/2023

Save

7. Add bills through csv file

Users can add multiple bills at once by uploading a CSV file unitConsumption, durationOfBill, billDueDate, customerId. Invalid records will skipped.



Bill ID	Unit consumption	Duration Of Bill	Bill Due Date	Total Amount	Customer Name
104	100	Aug 1, 2023	Aug 11, 2023	4150	a
105	100	Aug 1, 2023	Aug 11, 2023	4150	dpr
106	100	Aug 1, 2023	Aug 11, 2023	4150	dpr
107	100	Aug 1, 2023	Aug 11, 2023	4150	dpr
108	100	Aug 1, 2023	Aug 11, 2023	4150	dpr

8. Mark bill paid by Cash

Users can mark a bill as paid using the cash payment method if the customer prefers to pay with cash.

Bill Pay

localhost:4200/mark-bill-pay

Bharat Bijli CorporationCustomersBillsTransactionsProfile

Mark Bill as Paid

11

Load Bills

Bill ID	Unit consumption	Duration Of Bill	Bill Due Date	Total Amount	Amount After Discount	Customer Name	Action
94	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
95	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
96	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
97	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
99	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
100	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
102	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
105	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay

Bill Pay

localhost:4200/mark-bill-pay

Bharat Bijli CorporationCustomersBillsTransactionsProfile

✓ Bill Paid Successfully!!!

Mark Bill as Paid

11

Load Bills

Bill ID	Unit consumption	Duration Of Bill	Bill Due Date	Total Amount	Amount After Discount	Customer Name	Action
95	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
96	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
97	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
99	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
100	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
102	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
105	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay
106	100	Aug 1, 2023	Aug 11, 2023	4150	4150	dpr	Pay

9. List all transactions

Users can view a list of all transactions, which includes bill details, payment methods, and customer information.

Transaction ID	Date	Amount	Payment Type	Customer Name	Phone Number	Customer Email	Bill Id
41	Sep 24, 2023	4150	CASH	a	98768766	a@gmail.com	32
40	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	33
39	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	25
38	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	40
37	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	36
36	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	24
42	Sep 24, 2023	5146	CASH	a	98768766	a@gmail.com	92
43	Sep 24, 2023	4150	CASH	a	98768766	a@gmail.com	93
45	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	26
47	Sep 24, 2023	3942.5	CREDIT_CARD	dpr	87654444	dharmeshprasadr@gmail.com	46
48	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	43
49	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	34

10. View Transactions by Customer ID

Users can filter and view a list of transactions specific to a particular customer by entering the customer's ID.

Transaction ID	Date	Amount	Payment Type	Customer Name	Phone Number	Customer Email	Bill Id
40	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	33
39	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	25
38	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	40
37	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	36
36	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	24
45	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	26
47	Sep 24, 2023	3942.5	CREDIT_CARD	dpr	87654444	dharmeshprasadr@gmail.com	46
48	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	43
49	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	34
54	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	38
55	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	44
56	Sep 24, 2023	4150	CASH	dpr	87654444	dharmeshprasadr@gmail.com	45

11. User Profile

Users can access and view their own profile details, including employee ID, name, email address, and phone number.

