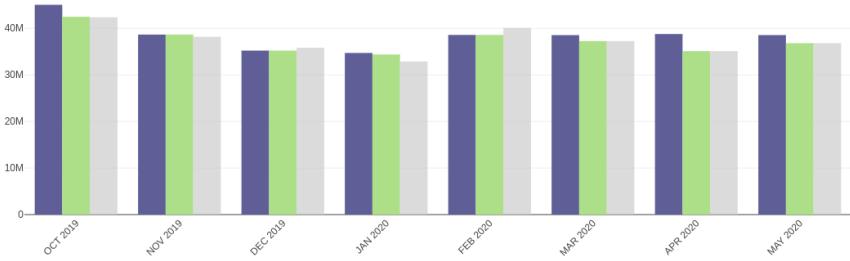




Monthly Billing Payments Trends



Title	Electricity Charges		dr	cr	Reference type	Reference ID	Balance
Type	receivable						
Description	test conn						
Balance	5504.6						
Status	ACTIVE						
Transaction Date	Posting Date	Description	Transaction Number				
01/09/2019	04/04/2021	OPENING BALANCE	6	0	OPENING BALANCE	0	0
01/10/2019	04/04/2021	BILLING	2002	22494	Invoice	2052	22494
26/10/2019	4/04/2021	SETTLEMENT	2030	22494	Invoice	0	0
01/11/2019	04/04/2021	BILLING	2031	16663.5	Invoice	4099	16663.5
27/11/2019	4/04/2021	SETTLEMENT	2060	16663.5	Invoice	0	0
01/12/2019	04/04/2021	All in	2061	14076	Invoice	14076	14076

Billspree

 LAKE CITY LAHORE		A/C Title: Lake City Management (Pvt) Ltd. Allied Bank A/C No: 0001033550910016 Branch Code: 0001033550910016 Faysal Bank A/C No: 3127301900234171 Branch Code: 3127		Customer Services For Billing Enquiry: 0303-4479964, 0317-4216794 For Security Emergency: 0303-4479964, 0300-000-098 Ext-157 0321-2000077, 042-5322555 (9:00 AM to 5:00 PM Except Sundays) www.lakecityltd.com.pk QAZAL@lakelcity.com.pk	
		Back up Generation Bill			
Customer: Alan		Address: Cleopatra, 501, 504g.			
Ref. No.			Tariff	Bill Month	Connection Date
501			UZMT103	SEP 2019	09/01/2019
Meter No.	Meter Type	Reading Date	Issue Date	Meter Status :	
501	Single Phase	10/01/2019	10/01/2019	Active	
Power Comps	Electricity Charges	Prev. Reading	Pres. Reading	Due Date	
		416	1057	10/10/2019	
Charges	WHT			Units	
Group Comps	22114.5			641	
Charges	0				
G1 Street Light	G1 Garbage	G1 Maintenance	G1 Water	G1 PTV	
2000	0	0	0	35	
Misc.	Misc.				
Charges	649				
Bill History					
Month	Units	Bill Amount	Payment		
					
Current Bill Arrears 24797.5 Total within Due Date 0 Late Payment Sur. 24797.5 Total After Due Date 24797.5 ES0041					
Important Note: Please note that the meter reading is taken by the meter reader. Any discrepancy in the meter reading should be reported to the meter reader. Deposit Step: If the meter reading is taken by the meter reader, the deposit step is not applicable. Deposit Amount: The deposit amount is not applicable for the meter reader. Repayment: The repayment amount is not applicable for the meter reader.					

Functional Overview

Billing is tedious and here's how

1. MDM (Meter Data Management)

- a. Meter readings (many will turn out to be empty)
- b. Meter states (many meters turn out to be faulty)
- c. Units estimations and adjustments (we must do something about faulty meter readings)

2. Bill processing

- a. How do we update our billing rules if we have to?
- b. How do we create a new tariff that may have to use the same tax laws as some other tariff?
- c. What about the components that have no rules?
- d. What about components that may have to use unmetered usage of something like days?
- e. How do we keep track of our arrears?
- f. How do we settle our payments as per needed payment priorities?
- g. How do we publish bills as per our wished designs?

3. Historical Data

- a. How can we keep all our precious data generated through billing in a structured form?
- b. How can we extract information from this data to better understand our future?

How can we help you in Billing?

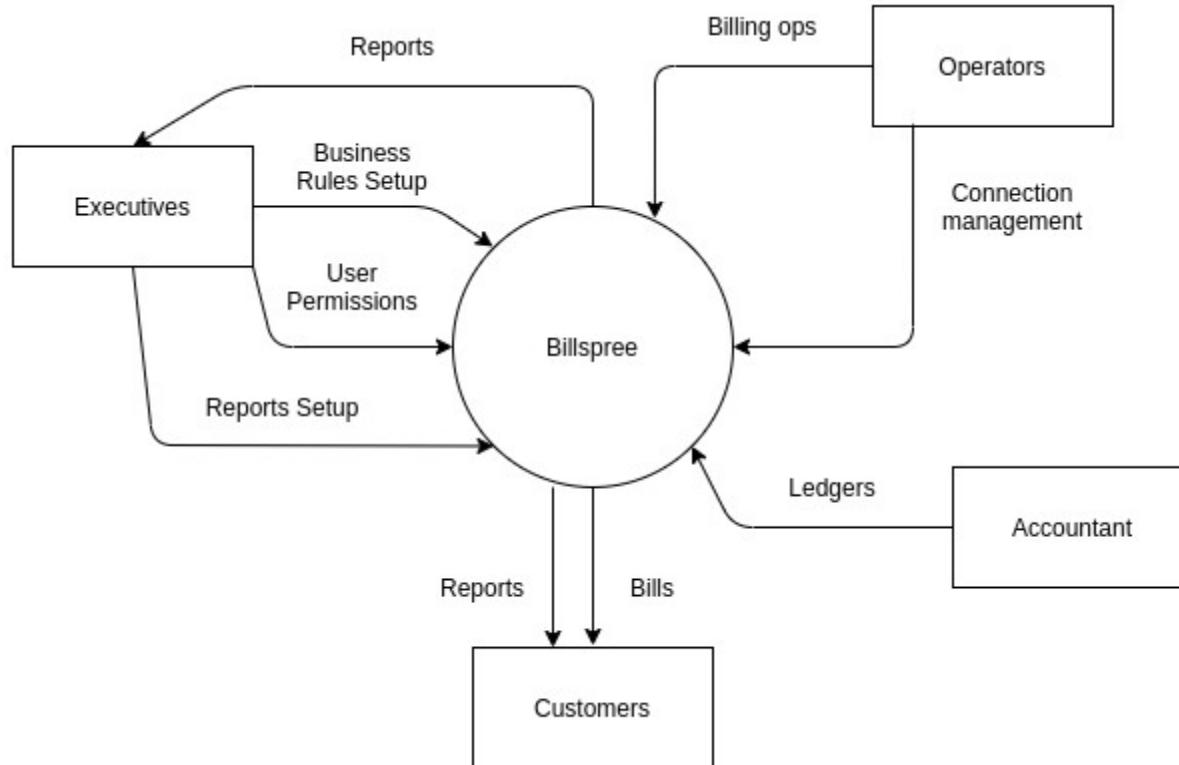
1. Help you structure and define your billing business
 - a. Service management
 - b. Tariff management
 - c. Connection management
 - d. Chart of accounts
2. Help you use this defined structure and rules in operations
 - a. MDM
 - b. Bill processing
 - c. Billing data adjustments
 - d. Bill posting
 - e. Accounting adjustments
 - f. Ledger generations
 - g. Bills publishing
3. Help you extract information from your data
 - a. Billing and payment trends, cash-flow trends, aging receivables, defaulters

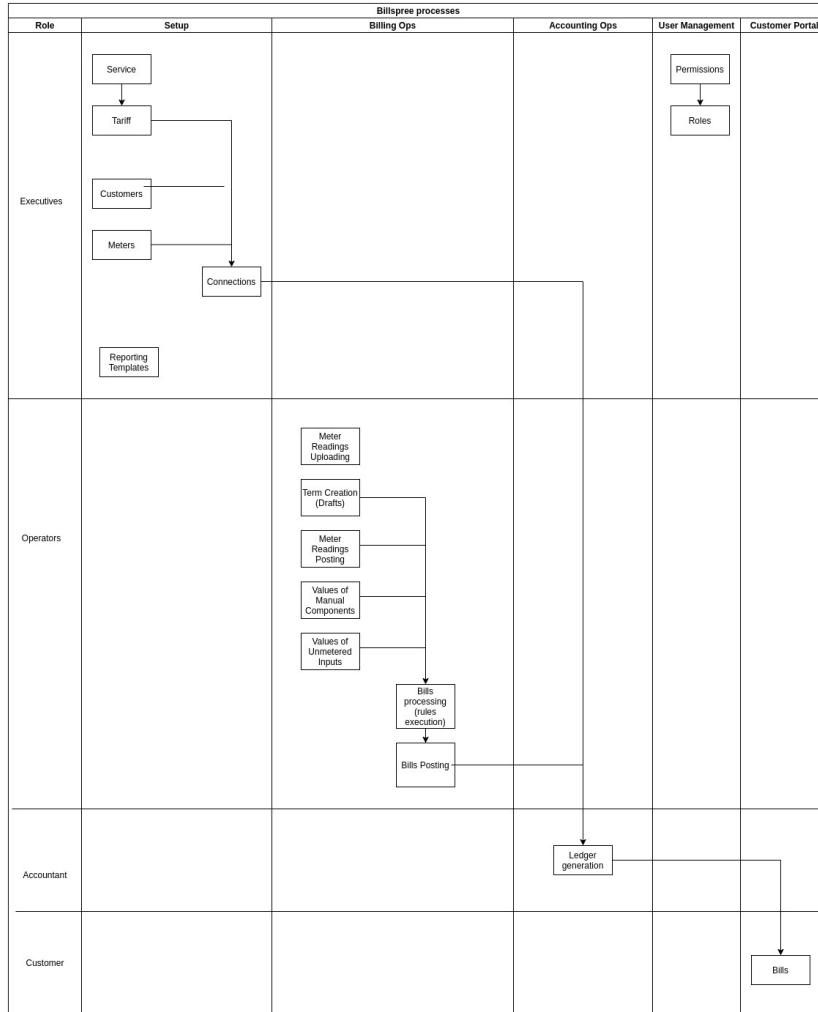
How do we do all this?

Billspree is the manifestation of our solution to help you with all your billing problems. It is an application that can be broken down into following modules:

1. Reporting
2. Setup (Business rules definition and data migration)
3. Billing operations
4. User management
5. Processes scheduling
6. Accounting
7. Customer Portal

BillSpree Context Diagram

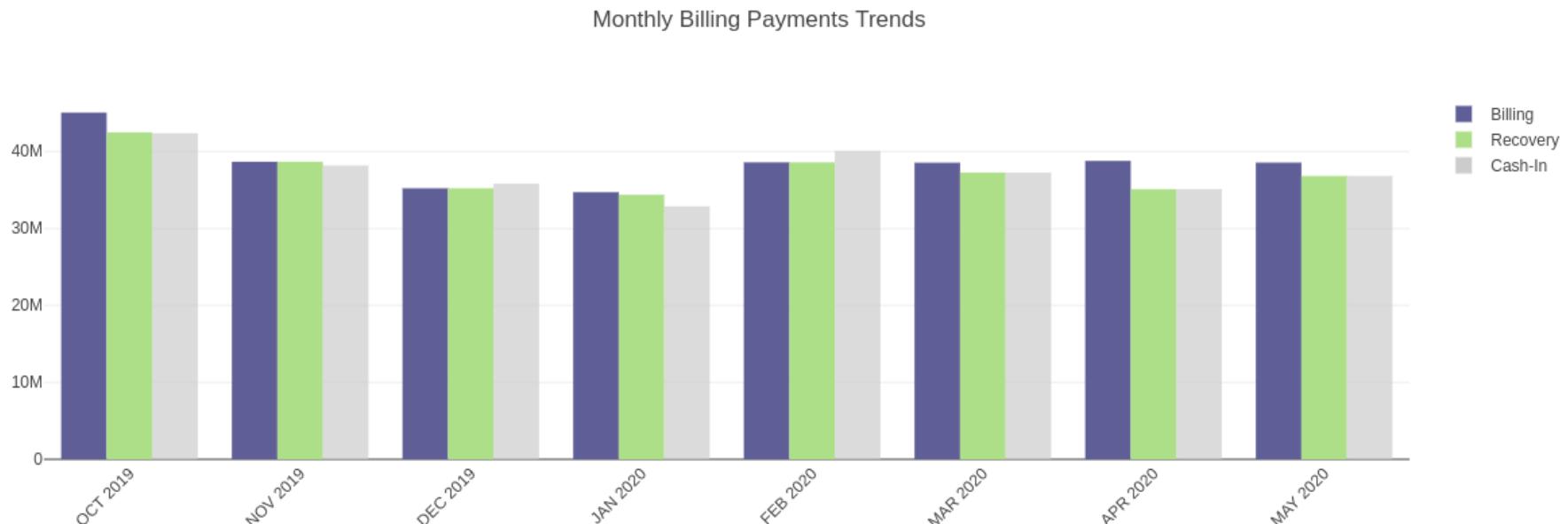




1 - Reporting

- Dashboard (Broad, detailed, CSV exports)
 - Billing-Payment Trends
 - Aging receivables
 - Cash flow
 - Defaulters
- Report Designer
 - MCO
 - RCO
 - DCO
 - Monthly new connections
 - Meter Readings
- Query Filters
 - Rows, Columns, Logical, etc.

1 - Reporting : Dashboard

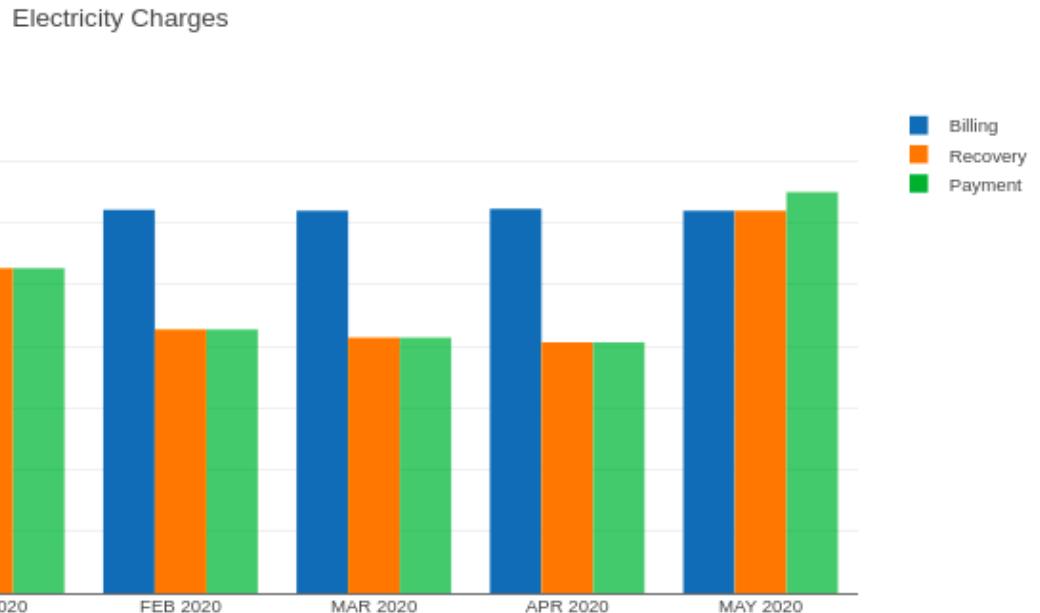


1 - Reporting : Dashboard

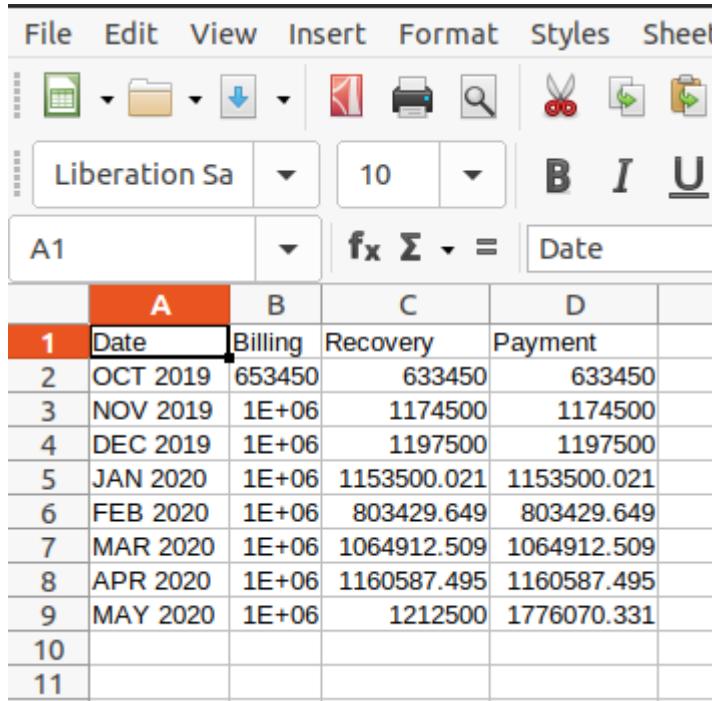
Electricity Charges ▼

Electricity Charges

Electricity Charges



1 - Reporting : Dashboard (Exports)

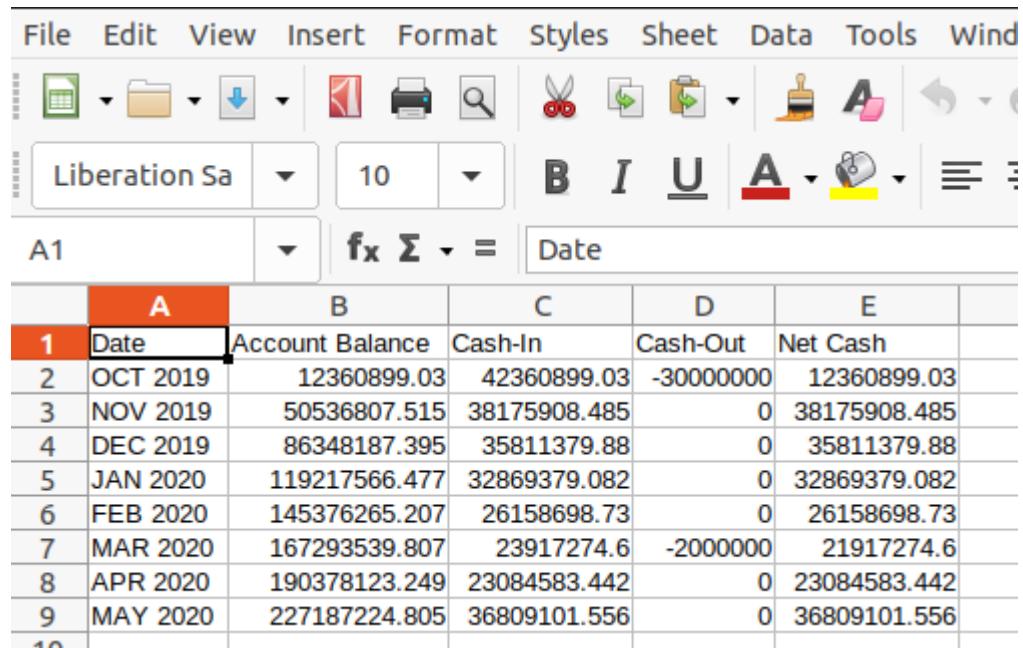


File Edit View Insert Format Styles Sheet

Liberation Sa 10 B I U

A1 fx Σ = Date

	A	B	C	D
1	Date	Billing	Recovery	Payment
2	OCT 2019	653450	633450	633450
3	NOV 2019	1E+06	1174500	1174500
4	DEC 2019	1E+06	1197500	1197500
5	JAN 2020	1E+06	1153500.021	1153500.021
6	FEB 2020	1E+06	803429.649	803429.649
7	MAR 2020	1E+06	1064912.509	1064912.509
8	APR 2020	1E+06	1160587.495	1160587.495
9	MAY 2020	1E+06	1212500	1776070.331
10				
11				



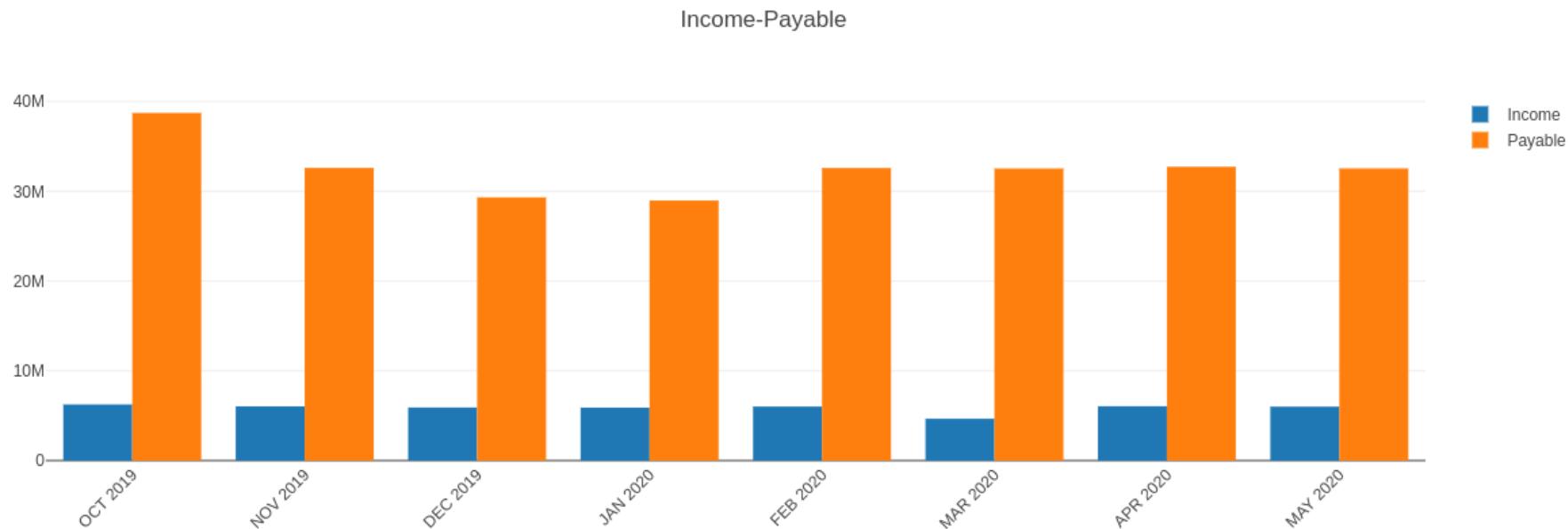
File Edit View Insert Format Styles Sheet Data Tools Wind

Liberation Sa 10 B I U A

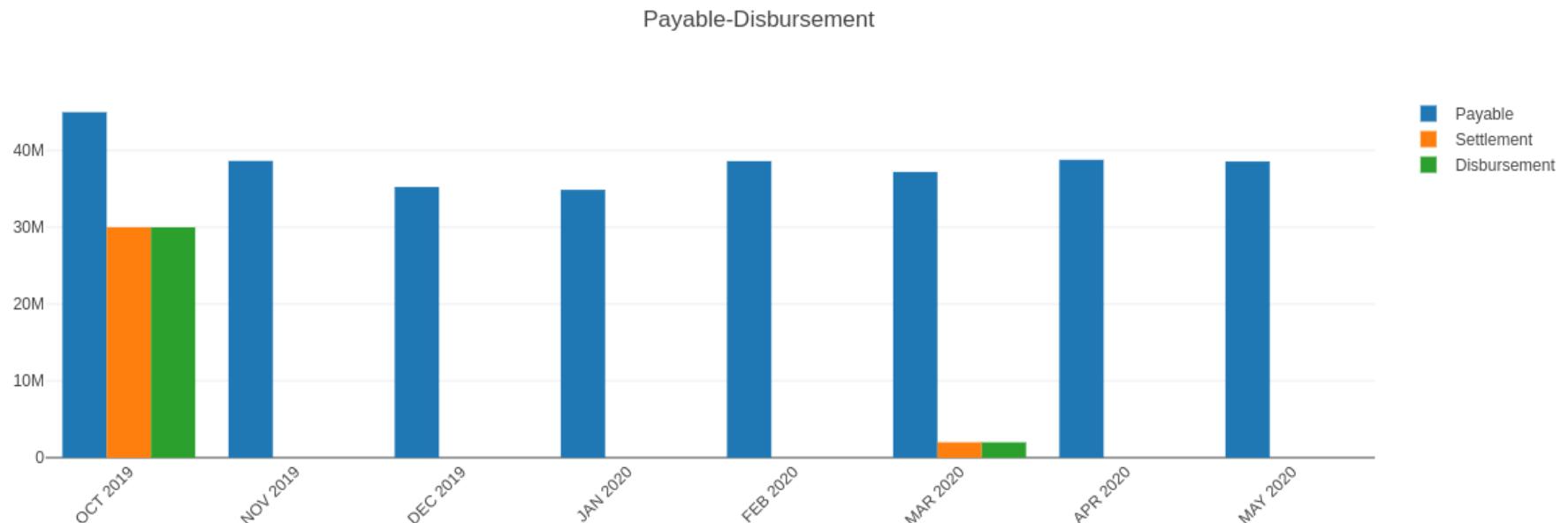
A1 fx Σ = Date

	A	B	C	D	E
1	Date	Account Balance	Cash-In	Cash-Out	Net Cash
2	OCT 2019	12360899.03	42360899.03	-30000000	12360899.03
3	NOV 2019	50536807.515	38175908.485	0	38175908.485
4	DEC 2019	86348187.395	35811379.88	0	35811379.88
5	JAN 2020	119217566.477	32869379.082	0	32869379.082
6	FEB 2020	145376265.207	26158698.73	0	26158698.73
7	MAR 2020	167293539.807	23917274.6	-2000000	21917274.6
8	APR 2020	190378123.249	23084583.442	0	23084583.442
9	MAY 2020	227187224.805	36809101.556	0	36809101.556
10					

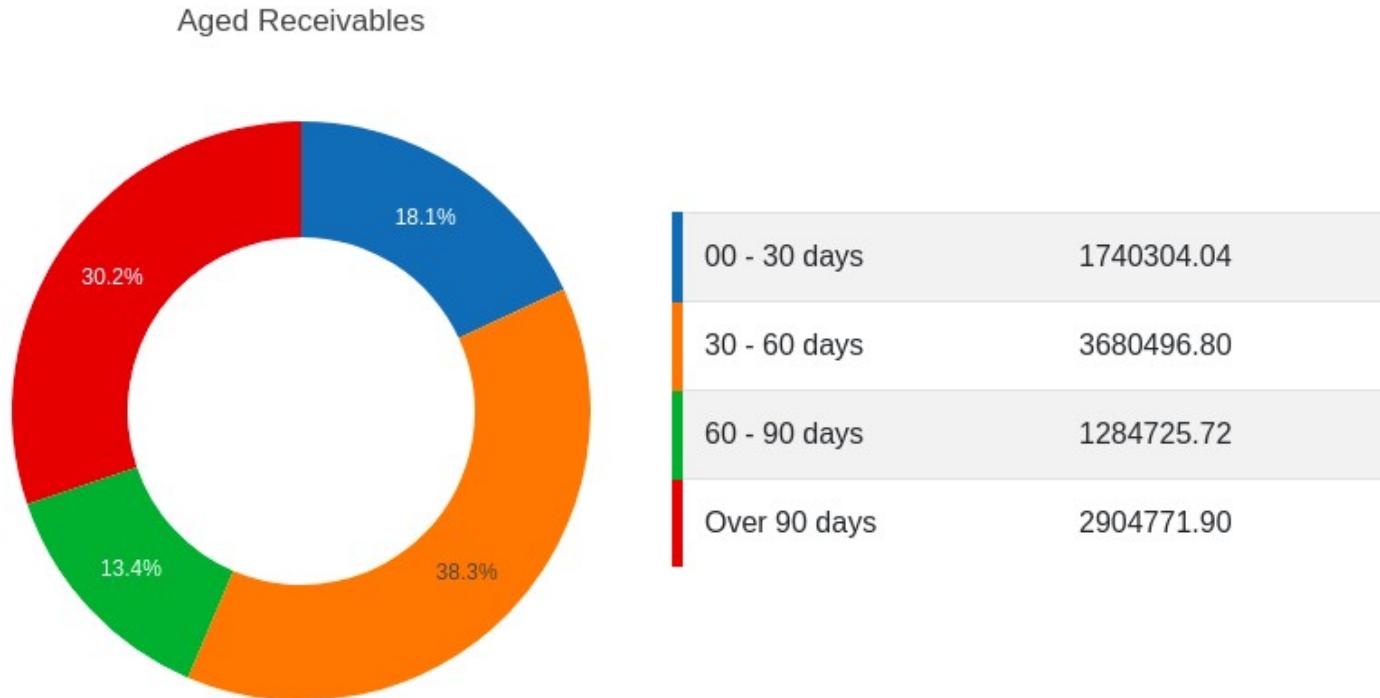
1 - Reporting : Dashboard



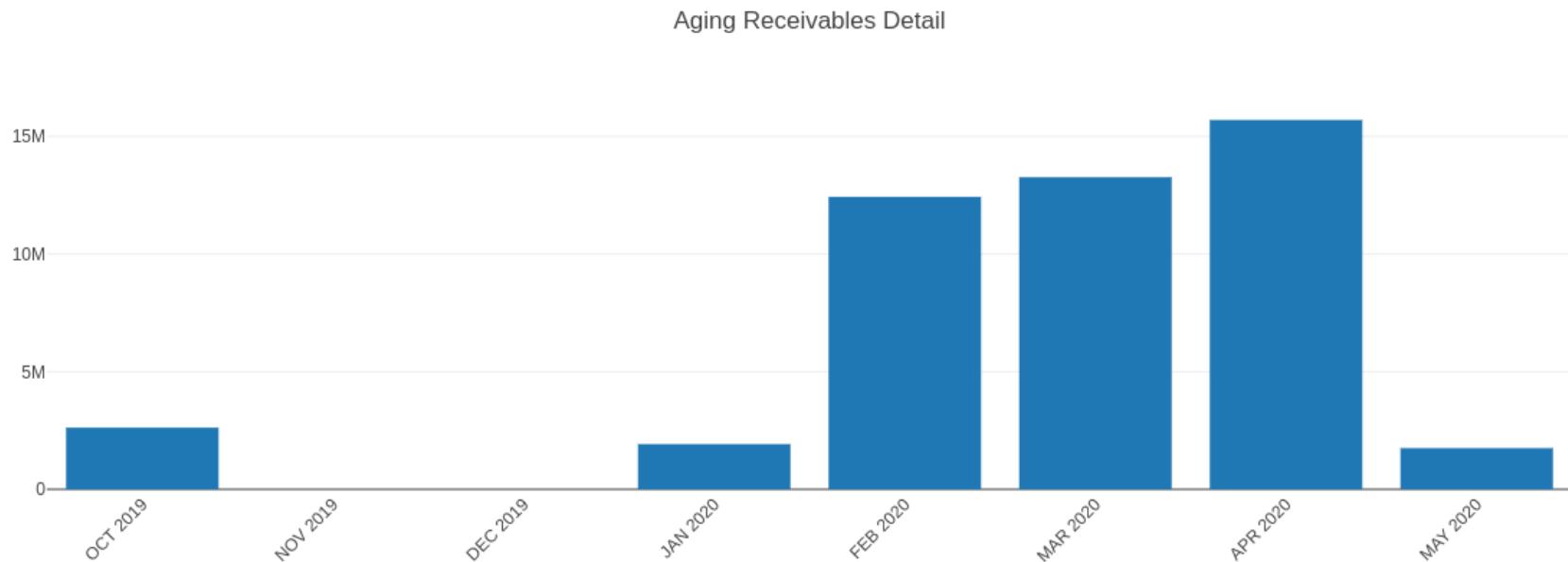
1 - Reporting : Dashboard



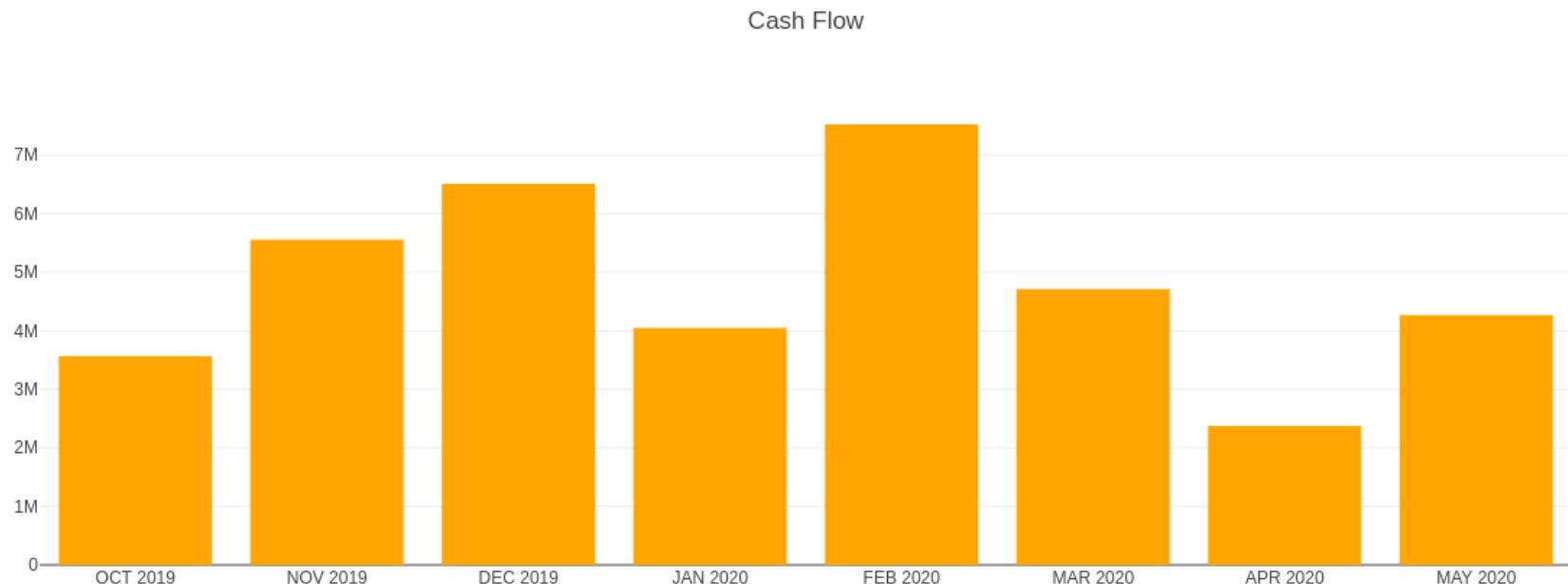
1 - Reporting : Dashboard



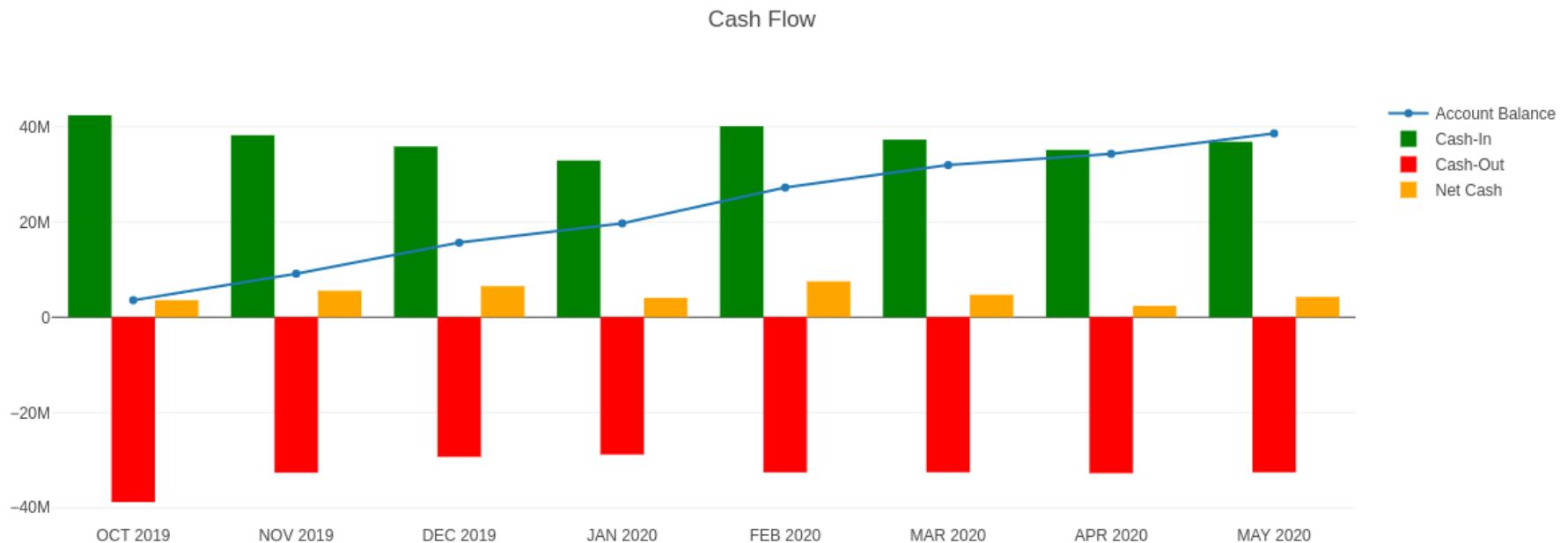
1 - Reporting : Dashboard



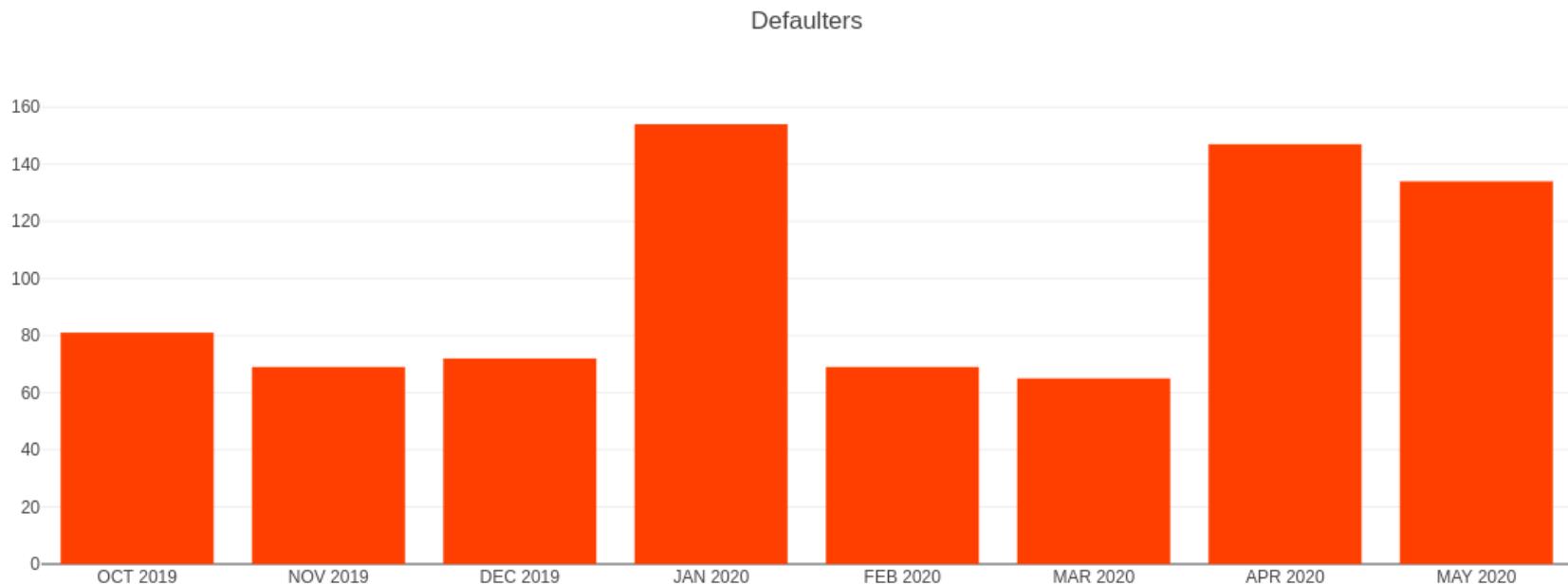
1 - Reporting : Dashboard



1 - Reporting : Dashboard

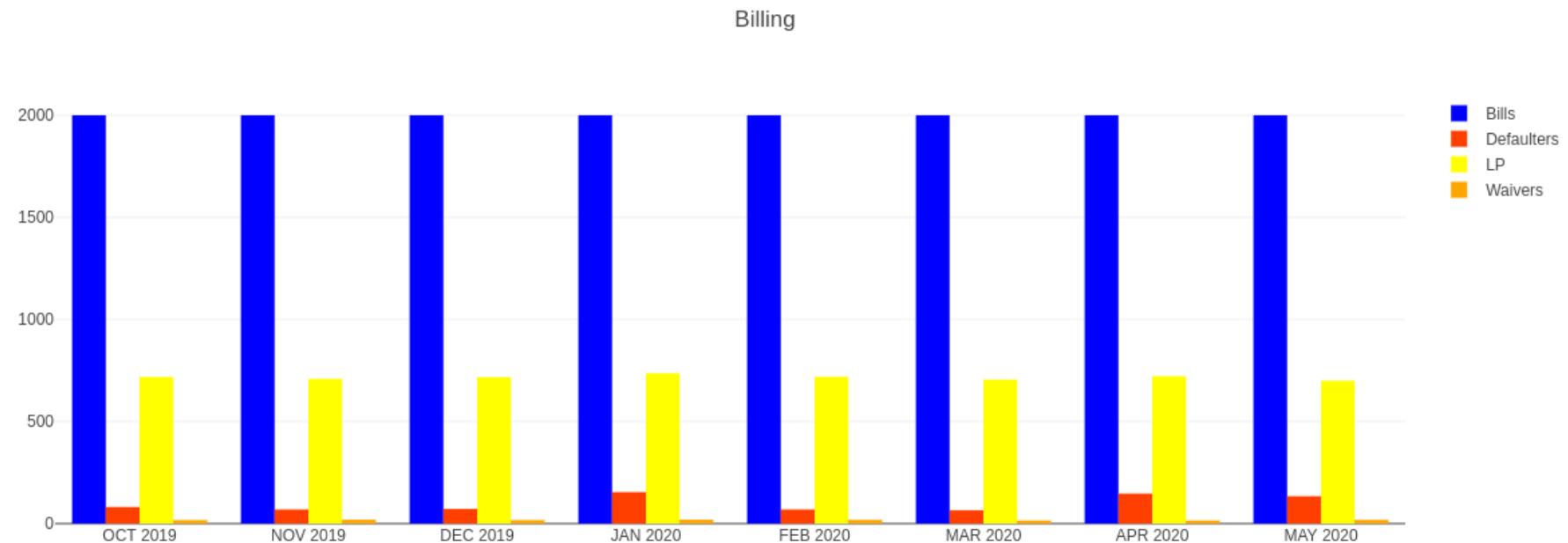


1 - Reporting : Dashboard



1 - Reporting : Dashboard

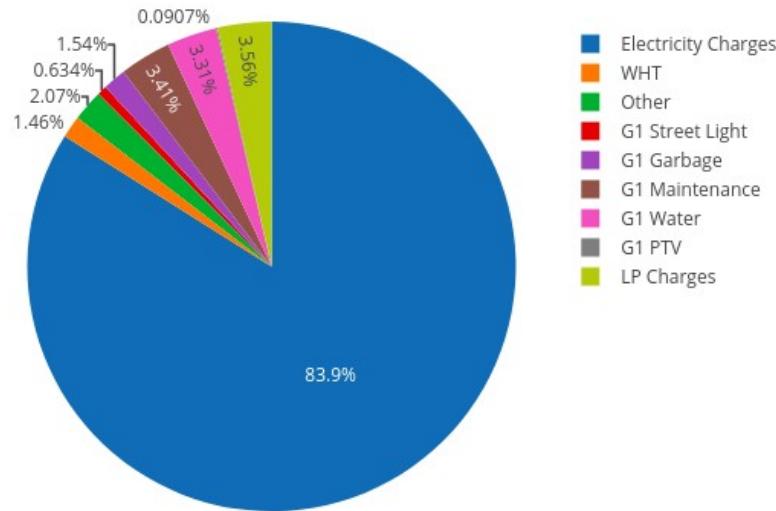
: Dashboard



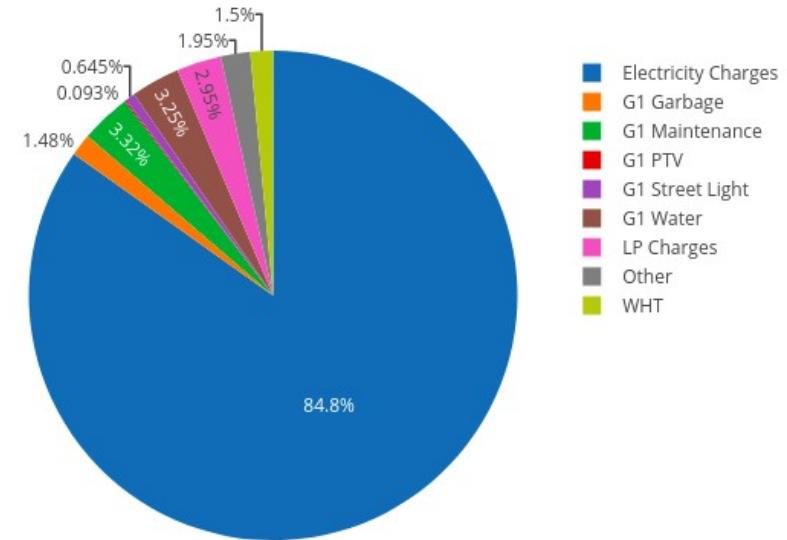
1 - Reporting : Dashboard

OCT 2019

Components Monthly Billing



Components Monthly Payments



1 - Reporting : Report Designer

[Payments](#) [Terms](#) [Meter Readings](#) [Reports](#)

1 - Reporting : Report Designer

 TechFoot Display Wash Report for April term						
S No	Ref No	Address	Meter No	Comments	Avg Units	Picture
1	90041	Okara-abc-A-80041	80199	lcd_wash	50	
2	90042	Okara-abc-A-80042	80199	lcd_wash	50	
3	90043	Okara-abc-A-80043	80199	lcd_wash	50	
4	90044	Okara-abc-A-80044	80199	lcd_wash	50	
5	90045	Okara-abc-A-80045	80199	lcd_wash	50	
6	90046	Okara-abc-A-80046	80046	lcd_wash	0	
7	90047	Okara-abc-A-80047	80047	lcd_wash	0	
8	90048	Okara-abc-A-80048	80048	lcd_wash	0	
9	90049	Okara-abc-A-80049	80049	lcd_wash	0	

 TechFoot MCO Report For Month April term						
Ref No	Location	Electricity New Meter	Electricity Old Meter	KWH Current Reading	KWH Previous Reading	MCO Date
90041	A,abc, 1, abc	80201	80041	50	0	03/21/2021
90042	A,abc, 1, abc	80202	80042	50	0	03/21/2021
90043	A,abc, 1, abc	80203	80043	50	0	03/21/2021
90044	A,abc, 1, abc	80204	80044	50	0	03/21/2021
90045	A,abc, 1, abc	80205	80045	50	0	03/21/2021
In-charge IT		Electric Incharge		CFO		GM

1 - Reporting : Query Filters

Records containing

Columns **Rows** **Group By** **Having**

Bill Number

Term Number

Term

Batch Code

Conn No

Tariff Code

Status

Party Number

Name

Arrears

Issue Date

Due Date

Payment Date

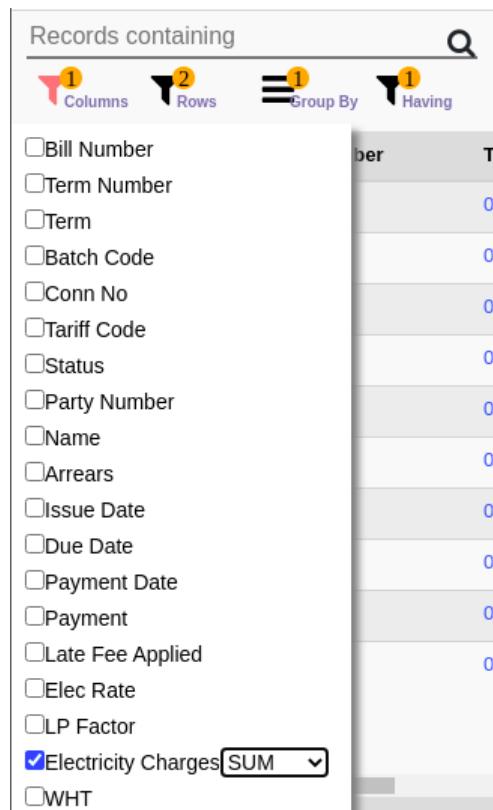
Payment

Late Fee Applied

Elec Rate

Electricity Charges **SUM**

WHT



Records containing

Columns **Rows** **Group By** **Having**

Bill Num **Term**

78 G1 Street Light > 0
OR Connection Type =
'Residential'

248 Bracket : None
Connector : None
Column : None
Operator : None

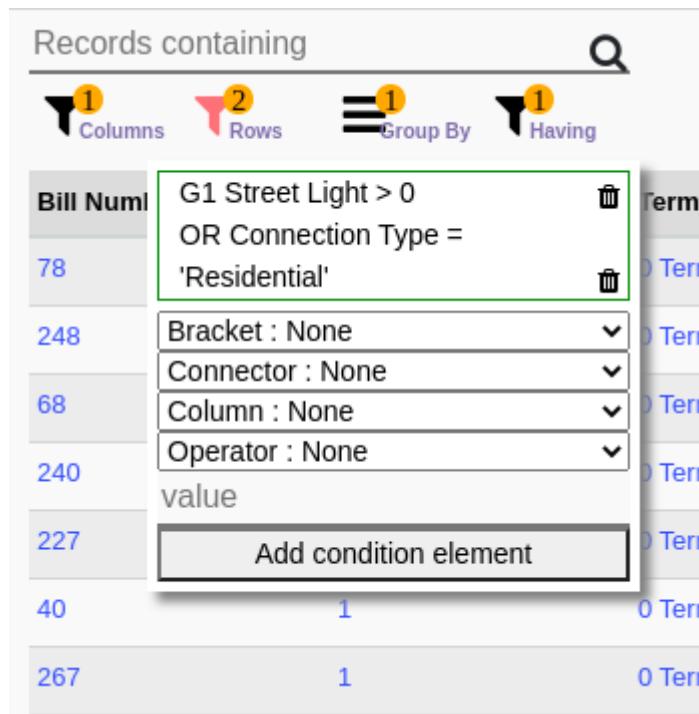
68 value

240 Add condition element

227

40 1 0 Term

267 1 0 Term



Records containing

Columns **Rows** **Group By** **Having**

Bill Number **Term Num**

78 SUM(Electricity Charges)>2000

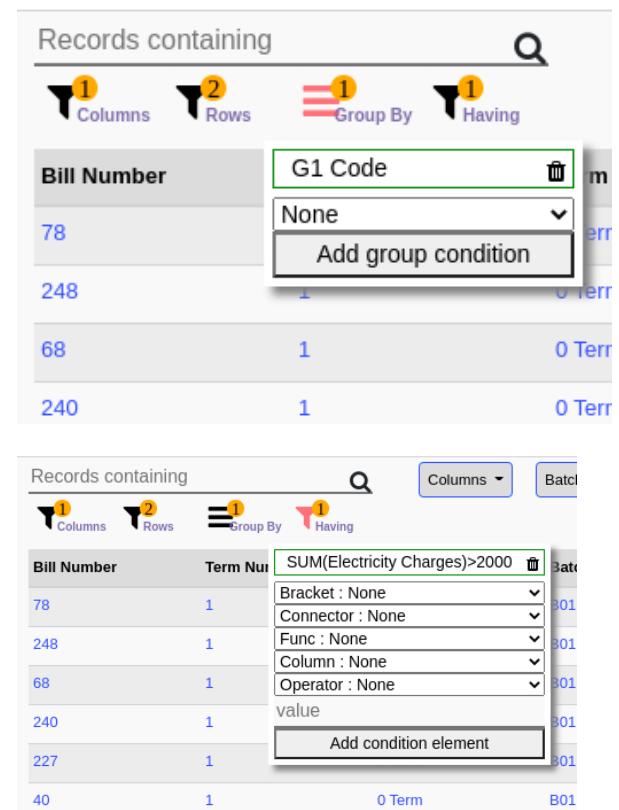
248 Bracket : None
Connector : None
Func : None
Column : None
Operator : None

68 value

240 Add condition element

227 1 0 Term

40 1 0 Term



2 - Setup

- Service management
 - Define your product billing components
 - accounts
 - payment priorities
- Billing Rules management
 - Define multiple groups of billing rules for each component
- Publishing Templates
 - Upload templates for bills and reports
- Bulk Data upload
 - Upload your customer
 - Meters (if metered billing)
 - Connections

2 - Setup : Service (service or goods)

Name*

Code*

Description

Due date offset*

Billing cycle*

[Values](#) [Billing Comps*](#) [Connection Inputs](#) [Metered Inputs](#) [Unmetered Inputs](#) [Bank Accounts*](#) [Batches*](#)

Calc. Order	Name	Account/type	Payment Priority	Late Payment	Type	Actions
1	Electricity Charges	payable	4	<input type="checkbox"/>	Calculated	+
2	WHT	payable	1	<input type="checkbox"/>	Calculated	+
3	Other	income	8	<input type="checkbox"/>	Manual	+
4	G1 Street Light	payable	3	<input type="checkbox"/>	Calculated	+
5	G1 Garbage	income	7	<input type="checkbox"/>	Calculated	+
6	G1 Maintenance	income	6	<input type="checkbox"/>	Calculated	+
7	G1 Water	income	5	<input type="checkbox"/>	Calculated	+
8	G1 PTV	payable	2	<input type="checkbox"/>	Calculated	+
9	Current Bill			<input type="checkbox"/>	Calculated	+
10	LP Charges	income	9	<input checked="" type="checkbox"/>	Calculated	+
11	Payable within Due Date			<input type="checkbox"/>	Calculated	+
12	Payable after Due Date			<input type="checkbox"/>	Calculated	+

[Add billing component](#)

2 - Setup : Service accounts

Account Name	Description	Balance
▼  Assets (1)	This is the root Account for all asset Accounts.	47906600
▼  IZMIR Service 103 (24)	Service asset account.	47906600
▶  Accounts Receivable (30)	Service accounts receivable balance.	9355739.965
▶  Current Assets (22)	Service current asset accounts balance.	38550860.035
▶  Suspense Account (20)	Service suspense account.	0
▶  Equity (10)	This is Equity account	0
▶  Expense (7)	This is Expense Account	0
▼  Income (12)	This is the root Account for owner.	47906600
▼  IZMIR Service 103 (26)	Organization income account.	47906600
▶  Other (36)	Organization payable account.	7561298
▶  G1 Garbage (38)	Organization payable account.	5544600
▶  G1 Maintenance (39)	Organization payable account.	12277600
▶  G1 Water (40)	Organization payable account.	11914200
▶  LP Charges (42)	Organization payable account.	10608902
▼  Liabilities (15)	This is the root Account for all components of all services.	0
▼  IZMIR Service 103 (27)	Organization payable account.	0
▶  Electricity Charges (34)	Component liability account.	0
▶  WHT (35)	Component liability account.	0
▶  G1 Street Light (37)	Component liability account.	0

2 - Setup : Service (data upload template)

2 - Setup : Billing Rules Group (Tariff/package)

Name*
Izmir Tariff

Code*
IZMT103

Parent*
none

Abstract

Description
This is a test tariff.

Values **Electricity Charges** **WHT** **G1 Street Light** **G1 Garbage** **G1 Maintenance** **G1 Water** **G1 PTV** **Current Bill** **LP Charges** **Payable within Due Date** **Payable after Due Date**

Inherit From Parent

Commercial (Electricity Charges between 4501 to 6000)

if	Electricity Charges	between	4501	to	6000	 
Parameters ▾						

Billing formula
500

Close **Update >**

Residential (Electricity Charges below 75000)  

Residential (Electricity Charges 75000 or above)  

Commercial (Electricity Charges between 0 to 400)  

Commercial (Electricity Charges between 401 to 600)  

Commercial (Electricity Charges between 601 to 800)  

Commercial (Electricity Charges between 801 to 1000)  

Commercial (Electricity Charges between 1001 to 1500)  

Commercial (Electricity Charges between 1501 to 3000)  

Commercial (Electricity Charges between 3001 to 4500)  

Commercial (Electricity Charges between 4501 to 6000)  

2 - Setup : Report templates (using docx files)

The screenshot shows a Microsoft Word document with a table containing several rows of data. The table includes columns for Customer, Address, Connection Date, Meter Status, Ref. No, Tariff, Bill Month, Issue Date, Due Date, Meter No, Meter Type, Reading Date, Prev. Reading, Pres. Reading, and Units. Below the table, there is a section for Bill History with columns for Month, Units, Bill Amount, and Payment. At the bottom of the table, there is a note in Urdu and English about payment methods. To the right of the table, there is a photograph of a digital electricity meter with the brand name 'Pak Electron Limited' and the number '000000.7' on its display. The Word ribbon is visible at the top, showing tabs for Home, Insert, Page Layout, etc. The status bar at the bottom shows '1,341 characters'.

Customer : Alan		Address : Clopetra, 501, 504g, Lahore		Connection Date : 09/01/2019	Meter Status : Active
Ref. No		Tariff	Bill Month	Issue Date	Due Date
501		IZMT103	SEP 2019	10/01/2019	10/10/2019
Meter No.	Meter Type	Reading Date	Prev. Reading	Pres. Reading	Units
501	Single Phase	10/01/2019	416	1057	641
Power Comps	Electricity Charges	WHT			
Charges	22114.5	0			
Group1 Comps	G1 Street Light	G1 Garbage	G1 Maintenance	G1 Water	G1 PTV
Charges	2000	0	0	0	35
Misc.	Misc.				
Charges	648				
Bill History					
Month	Units	Bill Amount	Payment		
Current Bill 24797.5 Arrears 0					
مکالمہ جوہری / سامان گو، نرس چل کیٹ اور سیکٹ پیس کے نزدیک 24 گھنٹے پر افریقی کمر میں کھل کر بیرون (Monday to Friday) - ایکٹر پی ہاؤن لیکٹر - فی Faysal Bank/Allied Bank					

2 - Setup : Report templates (using docx files)

Setup | Upload Template

Create Bill Documents ▾

Please upload a template

Choose File

Open File

Cancel

Recent

Home

Desktop

Documents

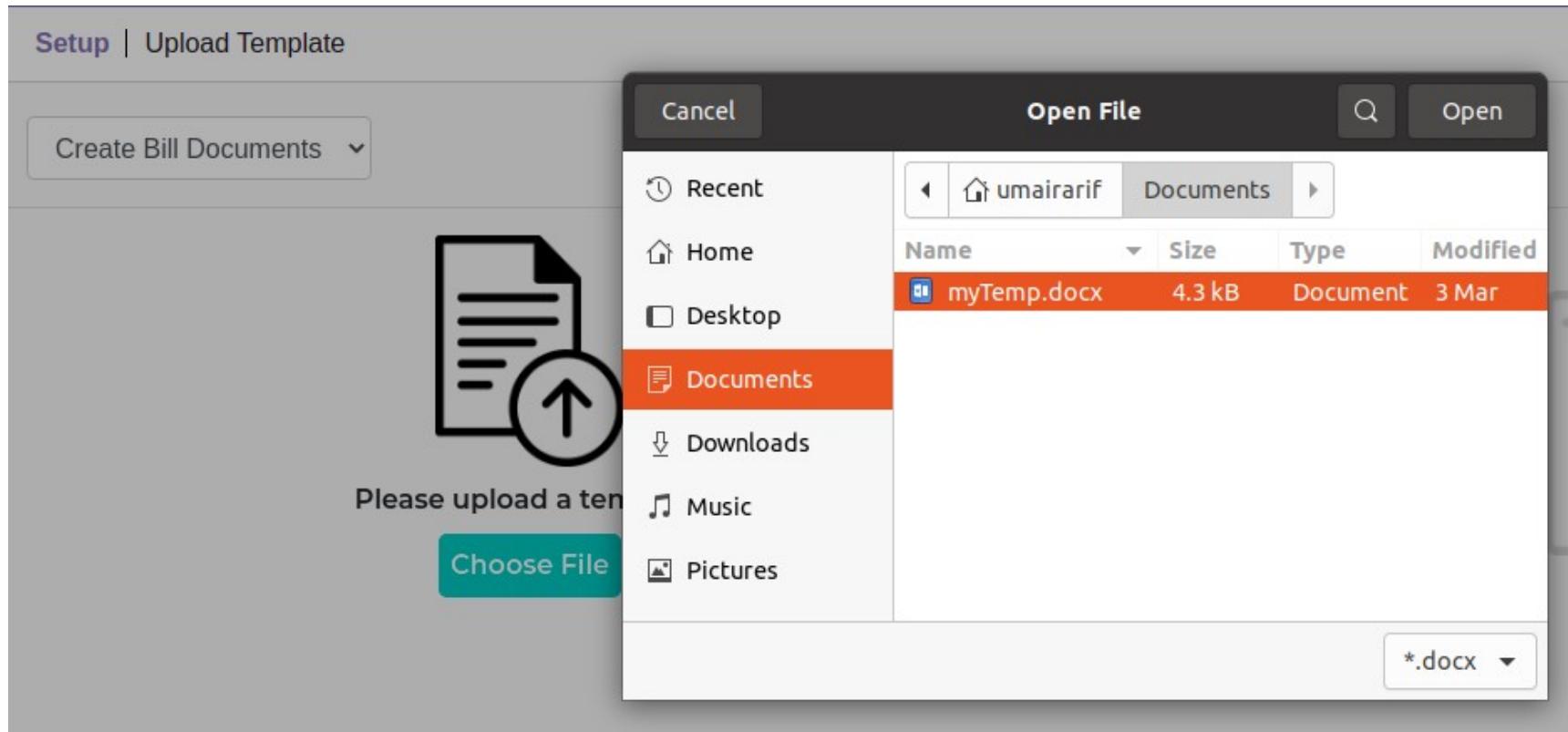
Downloads

Music

Pictures

Name	Size	Type	Modified
myTemp.docx	4.3 kB	Document	3 Mar

*.docx ▾

A screenshot of a software interface for setting up report templates. The main window has a header 'Setup | Upload Template' and a dropdown 'Create Bill Documents'. Below is a large icon of a document with an upward arrow, and the text 'Please upload a template'. A 'Choose File' button is present. A file selection dialog box is overlaid on the main window. The dialog has a title 'Open File' with 'Cancel' and 'Open' buttons. It shows a sidebar with 'Recent', 'Home', 'Desktop', and a highlighted 'Documents' folder. The main area shows a file list with a single item: 'myTemp.docx' (4.3 kB, Document, modified 3 Mar). At the bottom of the dialog is a filter field set to '*.docx'.

2 - Setup : Bulk data uploading : Connections

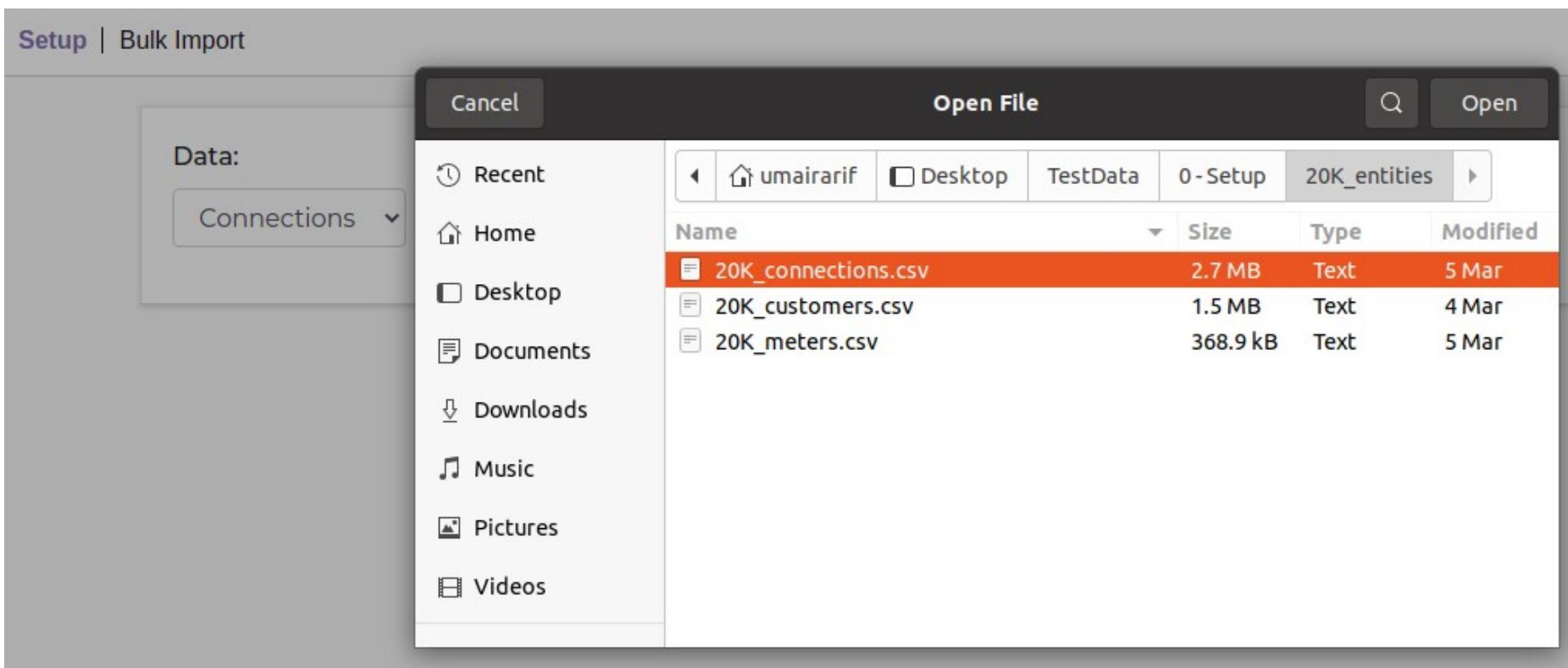
2K_connections.csv - LibreOffice Calc

File Edit View Insert Format Styles Sheet Data Tools Window Help

Liberation Sa 10 B I U A connection number

O	P	Q	R	S	T	U	V	W	X	Y	Z		
1	country	title	additional information	G1 Code	G1 Street Light Applied	G1 Garbage Applied	G1 Maintenance Applied	G1 Water Applied	G1 PTV Applied	Connection Type	KWH Meter	Electricity Charges opening balance	WHT o
2	Pakistan	Mr	74 (office2)	NO	YES	NO	NO	YES	NO	Commercial	Connected	0	
3	Pakistan	Mr	4 (8-M)	YES	NO	YES	YES	YES	YES	Residential	Connected	0	
4	Pakistan	Mr	41 (1 K temp)	YES	NO	YES	YES	YES	YES	Residential	Connected	0	
5	Pakistan	Mr	53 (5 M temp)	NO	YES	YES	NO	YES	YES	Commercial	Connected	0	
6	Pakistan	Mr	45 (10 M temp1)	YES	YES	YES	NO	YES	YES	Residential	Connected	0	
7	Pakistan	Mr	18 (mrball)	NO	YES	NO	YES	YES	YES	Commercial	Connected	0	
8	Pakistan	Mr	34 (temp)	NO	NO	YES	YES	NO	NO	Residential	Connected	0	
9	Pakistan	Mr	38 (2 K temp)	NO	YES	YES	YES	NO	NO	Commercial	Connected	0	
10	Pakistan	Mr	66 (5 M temp2)	YES	YES	YES	YES	NO	NO	Commercial	Connected	0	
11	Pakistan	Mr	50 (7 M temp)	NO	NO	YES	NO	NO	NO	Residential	Connected	0	
12	Pakistan	Mr	4 (8-M)	YES	YES	YES	YES	YES	YES	Commercial	Connected	0	
13	Pakistan	Mr	52 (5 M 2nd)	NO	NO	NO	YES	NO	NO	Residential	Connected	0	
14	Pakistan	Mr	35 (temp1)	NO	NO	YES	YES	YES	YES	Commercial	Connected	0	
15	Pakistan	Mr	42 (1 K tmp1)	YES	NO	NO	YES	YES	YES	Commercial	Connected	0	
16	Pakistan	Mr	62 (2 Kanal)	YES	YES	YES	NO	NO	NO	Commercial	Connected	0	
17	Pakistan	Mr	46 (8 M 2nd)	NO	NO	YES	NO	YES	YES	Residential	Connected	0	
18	Pakistan	Mr	43 (10 M 2nd)	NO	YES	YES	NO	YES	YES	Commercial	Connected	0	
19	Pakistan	Mr	26 (tower2)	NO	NO	NO	YES	NO	NO	Residential	Connected	0	
20	Pakistan	Mr	64 (stonly)	YES	YES	NO	NO	YES	YES	Commercial	Connected	0	
21	Pakistan	Mr	74 (office2)	YES	YES	YES	YES	NO	NO	Commercial	Connected	0	

2 - Setup : Bulk data uploading



2 - Setup : Customers

Records containing							Columns	Batch Actions				
User Number	CNIC	Name	Shop No	Building No	Street	Block						
1	39706-6089523-5	Freda	896	1	h4	U						
2	35868-3048488-6	Vera	897	1	h5	U						
3	22833-6276814-8	Geoffrey	898	1	h6	U						
4	41129-7137597-8	Lupe	899	1	h7	U						
5	70183-5872105-8	Ardith	900	1	h8	U						
6	81233-8085024-6	Liddie	901	1	h9	U						
7	75202-2320266-6	Louann	902	1	h10	U						
8	40508-8577181-1	Estella	903	1	h11	U						
9	51150-7946919-6	Freddy	904	1	h12	U						
10	43257-8529214-6	Joanna	905	1	h13	U						
2,000 total												

2 - Setup : Meters

Records containing	Columns	Batch Actions			
Number	MF	Status	Meter Health	Meter Type	actions
1	1	Active	ok	Single Phase	▼
2	1	Active	ok	Single Phase	▼
3	1	Active	ok	Single Phase	▼
4	1	Active	ok	Single Phase	▼
5	1	Active	ok	Single Phase	▼
6	1	Active	ok	Single Phase	▼
7	1	Active	ok	Single Phase	▼
8	1	Active	ok	Single Phase	▼
9	1	Active	ok	Single Phase	▼
10	1	Active	ok	Single Phase	▼
2,000 total					◀ ◀ ◀ ◀ ◀
					1 2 3 4 5 ▶ ▶

2 - Setup : Connection view

Records containing [Create](#) [Columns](#) [Batch Actions](#)

Connection Number	Customer Number	Date	Status	Tariff Code	Account	Meter Number	actions
1	1	01/09/2019	Active	IZMT103	241	1	▼
2	2	01/09/2019	Active	IZMT103	260	2	▼
3	3	01/09/2019	Active	IZMT103	279	3	▼
4	4	01/09/2019	Active	IZMT103	298	4	▼
5	5	01/09/2019	Active	IZMT103	317	5	▼
6	6	01/09/2019	Active	IZMT103	336	6	▼
7	7	01/09/2019	Active	IZMT103	355	7	▼
8	8	01/09/2019	Active	IZMT103	374	8	▼
9	9	01/09/2019	Active	IZMT103	393	9	▼
10	10	01/09/2019	Active	IZMT103	412	10	▼

2,000 total [View All](#) [Export](#) [Print](#)

1 2 3 4 5 > ►

Operations | Connection (2)

[Update](#) [Discard](#) [Create Bill](#) [Transfer](#)

Ownership	Settings	Address	Meters	Bills	Scheduled Bills
Connection Creation Date	Description	Connection No	Status		
2020-05-05	test conn	2	Active		
Owners					
Customer Number	Transfer Date	Percentage Ownership			
2	05/05/2020	40			
3	15/10/2021	60			
Transfers					
Customer Number	Transfer Date	Percentage Ownership			
21	05/05/2020	40			
31	05/05/2020	20			

2 - Setup : Connection accounts

Account Name	Description	Balance
▼  Assets (1)	This is the root Account for all asset Accounts.	47906600
▼  IZMIR Service 103 (24)	Service asset account.	47906600
▼  Accounts Receivable (30)	Service accounts receivable balance.	9355739.965
▼  Connections (21)	Service connection accounts balance.	9355739.965
▼  conn : 1 : 241 (241)	test conn	0
▶  Electricity Charges (242)	test conn	0
▶  WHT (243)	test conn	0
▶  Other (244)	test conn	0
▶  G1 Street Light (245)	test conn	0
▶  G1 Garbage (246)	test conn	0
▶  G1 Maintenance (247)	test conn	0
▶  G1 Water (248)	test conn	0
▶  G1 PTV (249)	test conn	0
▶  LP Charges (250)	test conn	0
▶  unsettled (251)	test conn	0
▶  conn : 2 : 260 (260)	test conn	0

3 - Billing Operations

- MDM
 - Meter readings posting
 - Usage calculations
 - Adjustments
 - estimations
- Invoicing
 - Bill processing
 - Bill posting
 - Late fee posting
 - Late fee waiver
 - Installments
- Payments
 - Payments posting
 - Disbursements
 - Payment settlement
- Connection
 - Customer
 - Meter
 - MCO
 - DCO
 - Transfer
 - Installments
- Publishing
 - Billing
 - Other reports

3 - Billing Ops : Customer

User Number

Select User

User Name

cnic (ABCDE-ABCDEFG-H)

country

Title

ShopNo/SuitNo

Additional Info

Building No

Building Name

Street

Block/Sector

Society/Colony/Town

City

3 - Billing Ops : Meter

Meter Number* <input type="text" value="Enter Number"/>	Meter Brand <input type="text" value="Enter Brand"/>	Meter Type* <input style="width: 150px;" type="text" value="Single Phase"/> 
Purchase Date* <div style="display: flex; align-items: center;"><input type="text" value="10/15/2021"/> </div>	MF* <input type="text" value="1"/>	

3 - Billing Ops : Connection

<input type="button" value="Add"/>	Customer Number* <input type="text" value="0"/>	Ownership* <input type="text" value="100"/>	<input type="button" value="Remove"/>
Service* <input type="button" value="Select Service"/>	Tariff* <input type="button" value="Select Tariff"/>	Batch* <input type="button" value="Select Batch"/>	
Date* <input type="text" value="10/15/2021"/> <input type="button" value=""/>	Description <input type="text" value="Service Connection Description"/>	Connection Number <input type="text" value="Connection Number"/>	
Connection Address Detail			
Country <input type="button" value="Pakistan"/>	Title <input type="text" value="title"/>		
ShopNo/SuitNo <input type="text" value="shopNo"/>	Additional Info <input type="text" value="additionalInfo"/>		
Building No <input type="text" value="buildingNo"/>	Building Name <input type="text" value="buildingName"/>		
Street <input type="text" value="street"/>	Block/Sector <input type="text" value="block"/>		
Society/Colony/Town <input type="text" value="society"/>	City <input type="text" value="city"/>		

3 - Billing Ops : Meter Readings Uploading

Meter No	Reading Type	Reading	Reading Date	Meter Health	Comments	Actions
1	KWH	736	10/01/2019	ok	▼	Enter comments Remove
2	KWH	659	10/01/2019	ok	▼	Enter comments Remove
3	KWH	1091	10/01/2019	ok	▼	Enter comments Remove
4	KWH	1120	10/01/2019	ok	▼	Enter comments Remove
5	KWH	975	10/01/2019	ok	▼	Enter comments Remove
6	KWH	931	10/01/2019	ok	▼	Enter comments Remove
7	KWH	900	10/01/2019	ok	▼	Enter comments Remove
8	KWH	Enter Reading	10/01/2019	lcd_wash	▼	Enter comments Remove
9	KWH	1239	10/01/2019	ok	▼	Enter comments Remove
10	KWH	1260	10/01/2019	ok	▼	Enter comments Remove

3 - Billing Ops : Meter Readings posting

Records containing										
Columns Rows Group By Having Search										
Columns Rows Group By Having Search										
Applied	Connection Type	KWH Meter	KWH	Reading Date	kwh_MCO	kwh_estimated	kwh_mf	kwh_previousReading	kwh_currentReading	actions
	Commercial	Connected	513	01/05/2020	0		1	3407	3920	▼
	Residential	Connected	591	01/05/2020	0		1	3339	3930	▼
	Residential	Connected	423	01/05/2020	0		1	3681	4104	▼
	Commercial	Connected	408	01/05/2020	0		1	3729	4137	▼
	Residential	Connected	312	01/05/2020	0		1	3801	4113	▼
	Commercial	Connected	355	01/05/2020	0		1	3611	3966	▼
	Residential	Connected	421	01/05/2020	0		1	3901	4322	▼
	Commercial	Connected	407	01/05/2020	0		1	3637	4044	▼
	Commercial	Connected	332	01/05/2020	0		1	3754	4086	▼
	Residential	Connected	425	01/05/2020	0		1	4030	4455	▼

3 - Billing Ops : Invoicing and MDM

Operations | Service (IZM103) | Batch (B01) | Term (APR 2020)

Conn No	Tariff Code	Status	Arrears	Issue Date	Due Date	Elec Rate	LP Factor	Electricity Charges	WHT
1	IZMT103	POSTED	0			34.5	0.1	17698.5	1500
2	IZMT103	POSTED	0			34.5	0.1	20389.5	0
3	IZMT103	POSTED	0			34.5	0.1	14593.5	0
4	IZMT103	POSTED	0			34.5	0.1	14076	1000
5	IZMT103	POSTED	8202			34.5	0.1	10764	0
6	IZMT103	POSTED	0			34.5	0.1	12247.5	1000
7	IZMT103	POSTED	0			34.5	0.1	14524.5	0
8	IZMT103	POSTED	0			34.5	0.1	14041.5	1000
9	IZMT103	POSTED	0			34.5	0.1	11454	1000
10	IZMT103	POSTED	42323.65			34.5	0.1	14662.5	0

Records containing Columns Rows Group By Having Batch Actions

Post MeterData
Upload Manual Comps
Upload Unmetered Usage
Process Bills
Post Bills
Post LP
Publish
Refresh Arrear
Estimate All
Close Term
Refresh
Export CSV

2,000 total 1 2 3 4 5

3 - Billing Ops : Adjustments

KWH	Reading Date	kwh_MCO	kwh_estimated	kwh_mf	kwh_previousReading	kwh_currentReading	actions
513	01/05/2020	0		1	3407	3920	
591				1	3339	3930	
423				1	3681	4104	
408				1	3729	4137	
312				1	3801	4113	
355				1	3611	3966	
421				1	3901	4322	
407				1	3637	4044	
332				1	3754	4086	
425				1	4030	4455	

Make Adjustment

kWH

kWH_previousReading

Other



id	kwh_currentReading	actions
3920		
3930		Adjustment MCO
4104		
4137		
4113		
3966		
4322		
4044		
4086		
4455		

3 - Billing Ops : Bills posting (connection accounts)

▼  conn : 5 : 317 (317)	test conn	8075.6
▶  Electricity Charges (318)	test conn	5504.6
▶  WHT (319)	test conn	0
▶  Other (320)	test conn	1471
▶  G1 Street Light (321)	test conn	0
▶  G1 Garbage (322)	test conn	350
▶  G1 Maintenance (323)	test conn	750
▶  G1 Water (324)	test conn	0
▶  G1 PTV (325)	test conn	0
▶  LP Charges (326)	test conn	0
▶  unsettled (327)	test conn	0

3 - Billing Ops : Bills posting (service accounts)

▼  Income (12)	This is the root Account for owner.	47906600
▼  IZMIR Service 103 (26)	Organization income account.	47906600
▶  Other (36)	Organization payable account.	7561298
▶  G1 Garbage (38)	Organization payable account.	5544600
▶  G1 Maintenance (39)	Organization payable account.	12277600
▶  G1 Water (40)	Organization payable account.	11914200
▶  LP Charges (42)	Organization payable account.	10608902
▼  Liabilities (15)	This is the root Account for all components of all services.	0
▼  IZMIR Service 103 (27)	Organization payable account.	0
▶  Electricity Charges (34)	Component liability account.	0
▶  WHT (35)	Component liability account.	0
▶  G1 Street Light (37)	Component liability account.	0
▶  G1 PTV (41)	Component liability account.	0

3 - Billing Ops : Legers

Title	Electricity Charges							
Type	payable component							
Description	Component liability account.							
Balance	0							
Status	ACTIVE							
Transaction Date	Posting Date	Description	Transaction Number	dr	cr	Reference type	Reference ID	Balance
01/10/2019	04/04/2021	BILLING	2002		37809895.5	Invoice	0	37809895.5
25/10/2019	04/04/2021	Disbursement	2029	37809895.5			0	0
01/11/2019	04/04/2021	BILLING	2031		31098783	Invoice	0	31098783
26/11/2019	04/04/2021	Disbursement	2059	31098783			0	0
01/12/2019	04/04/2021	BILLING	2061		27777537	Invoice	0	27777537
27/12/2019	04/04/2021	Disbursement	2088	27777537			0	0
01/01/2020	04/04/2021	BILLING	2090		27305404.5	Invoice	0	27305404.5
26/01/2020	05/04/2021	Disbursement	2146	27305404.5			0	0
01/02/2020	05/04/2021	BILLING	2148		31052311.5	Invoice	0	31052311.5
26/02/2020	05/04/2021	Disbursement	2175	31052311.5			0	0

3 - Billing Ops : Connection Transfer

Customer Number

Ownership

From

2 40

3 60

To

0 100

Add Remove

Transfer

Connection ID	Name	Status	Active
2	test conn	2	Active

Owners

Customer Number	Transfer Date	Department Ownership

3 - Billing Ops : Installments of an unposted bill

Manual Components

Other Other

Installments

Installments : 5

Process **Show Installments** **Create Bills**

Bill **Installment 1** **Installment 2**

Installment 3 **Installment 4**

Installment 5

Elec Rate : 34.5

LP Factor : 0.1

Nothing : 0

Electricity Charges : 0.000

WHT : 0.000

Other : 0.000

G1 Street Light : 0.000

G1 Garbage : 0.000

G1 Maintenance : 0.000

G1 Water : 80.000

G1 PTV : 0.000

Current Bill : 80.000

LP Charges : 8.000

Payable within Due Date : 80.000

Payable after Due Date : 88.000

10/15/2021

3 - Billing Ops : Installments of a posted bill

The screenshot shows a software interface for managing electricity bills and installments. The top navigation bar includes links for Meter Readings, Reports, Connections, Customers, Meters, and Bills. The user is logged in as hamza.techfootint@gmail.com.

The main area displays the following information:

- Installments:** 3
- Bill:** [Installment 1](#) (selected), [Installment 2](#), [Installment 3](#)
- Elec Rate:** 34.5
- LP Factor:** 0.1
- Nothing:** 0
- Electricity Charges:** 13524.000
- WHT:** 0.000
- Other:** 0.000
- G1 Street Light:** 0.000
- G1 Garbage:** 0.000
- G1 Maintenance:** 0.000
- G1 Water:** 0.000
- G1 PTV:** 0.000
- Current Bill:** 13524.000
- LP Charges:** 1352.400
- Payable within Due Date:** 13524.000
- Payable after Due Date:** 14876.400

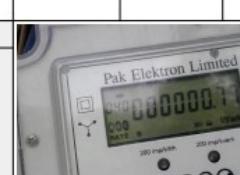
The date 10/19/2021 is displayed in a text input field.

On the right, a table lists meter readings with columns for previousReading, kwh_currentReading, and actions. The data is as follows:

previousReading	kwh_currentReading	actions
1105		▼
1176		▼
1116		▼
902		▼
925		▼
1192		▼
659		▼
858		▼
1285		▼

At the bottom, a navigation bar shows page numbers 396, 397, 398, 399, 400, and 401.

3 - Billing Ops : Publishing

<p style="text-align: center;">A/C Title: Lake City Management (Pvt) Ltd. Allied Bank A/C No: 0010035550910016 Branch Code: 0062 Faysal Bank A/C No: 3127301900234171 Branch Code: 3127</p> <p style="text-align: center;">Customer Services 0308-4449696, 0317-4215794 For Billing: 111-000-096 Ext-157 Security Emergency 0335-2200077, 0423-5322555 (9:00 AM to 5:00 PM Except Sundays) imran.khan@thelakecity.com.pk QAZAL@thelakecity.com.pk</p>					
Back up Generation Bill					
Customer : Alan		Address : Clopetra, 501, 504g, Lahore		Connection Date : 09/01/2019	Meter Status : Active
Ref. No		Tariff	Bill Month	Issue Date	Due Date
501		IZMT103	SEP 2019	10/01/2019	10/10/2019
Meter No.	Meter Type	Reading Date	Prev. Reading	Pres. Reading	Units
501	Single Phase	10/01/2019	416	1057	641
Power Comps	Electricity Charges	WHT			
Charges	22114.5	0			
Group1 Comps	G1 Street Light	G1 Garbage	G1 Maintenance	G1 Water	G1 PTV
Charges	2000	0	0	0	35
Misc.	Misc.				
Charges	648				
Bill History					
Month	Units	Bill Amount	Payment		
<p style="text-align: center;">Monday - Friday (Monday to Friday)</p> <p style="text-align: center;">فیکر کے مطابق میں کوئی بے انتہا بیان نہیں کر سکتے۔</p> <p style="text-align: center;">Faysal Bank/Allied Bank (Deposit Slip) (E. M. D.)</p> <p style="text-align: center;">کوئی بے انتہا بیان نہیں کر سکتے۔</p> <p style="text-align: center;">RCC (RCC) کوئی بے انتہا بیان نہیں کر سکتے۔</p> <p style="text-align: center;">کوئی بے انتہا بیان نہیں کر سکتے۔</p> <p style="text-align: center;">کوئی بے انتہا بیان نہیں کر سکتے۔</p>					
Current Bill		24797.5			
Arrears		0			
Total within Due Date		24797.5			
Late Payment Sur.		2479.75			
Total After Due Date		27277.25			

3 - Billing Ops : Payments posting

paymetsWithinDueDate

File Edit View Insert Format Styles Sheet Data

Liberation Sans 10 B I U A

F1 fx Σ =

	A	B	C	D	E
1	Transaction Number	Connection Number	Paid	Date	
2	1	692	16920.503	10/2019	
3	2	1641	18163.503	10/2019	
4	3	756	19545.503	10/2019	
5	4	871	15750.503	10/2019	
6	5	1389	24037.503	10/2019	
7	6	1001	27320.503	10/2019	
8	7	710	1425003	10/2019	
9	8	1866	22243.503	10/2019	
10	9	1709	18750.503	10/2019	
11	10	1680	18241.603	10/2019	
12	11	729	25321.503	10/2019	
13	12	402	15603.503	10/2019	
14	13	1707	26718.503	10/2019	
15	14	1585	14485.503	10/2019	
16	15	1361	2098003	10/2019	
17	16	1107	2174303	10/2019	
18	17	772	16795.503	10/2019	
19	18	1368	2258703	10/2019	
20	19	258	25426.503	10/2019	
21	20	1050	1403403	10/2019	
22	21	1116	17868.503	10/2019	
23	22	1620	3256403	10/2019	
24	23	828	13660.503	10/2019	
25	24	1753	2776203	10/2019	

paymetsWithinDueDate

Sheet 1 of 1 Default English (USA)

▼  Assets (1)	This is the root Account for all asset Accounts.	47906600
▼  IZMIR Service 103 (24)	Service asset account.	47906600
►  Accounts Receivable (30)	Service accounts receivable balance.	9355739.965
▼  Current Assets (22)	Service current asset accounts balance.	38550860.035
▼  Banks (23)	Service bank accounts balance.	38550860.035
►  Meezan (33)	123456 - Service cash account	38550860.035

3 - Billing Ops : Late Fee Waiver

Reading Date	kwh_MCO	kwh_estimated	kwh_mf	kwh_previousReading	kwh_currentReading	actions
01/10/2019	0		1	361	736	
01/10/2019	0		1	592	659	 Waive LP Charges
01/10/2019	0		1	485	1091	
01/10/2019	0		1	318	1120	
01/10/2019	0		1	323	975	
01/10/2019	0		1	311	931	
01/10/2019	0		1	310	900	
01/10/2019	0		1	566	1066	
01/10/2019	0		1	324	1239	
01/10/2019	0		1	493	1260	

3 - Billing Ops : Disbursements

Services:

IZMIR Service 103

Payables

Electricity Charges : 0
WHT : 0
G1 Street Light : 0
G1 PTV : 0

Banks

Meezan,123456 : 38550860.035

Electricity Charges ▾ Meezan,123456 ▾

Disburse

4 - User Management

- Permission Lists
- Roles
- User Logins

4 - User Management : Permission Lists

Authorization | Make Permission

Save

Discard

- Get User Types
- Create User
- Get Users
- Create Connection
- Get Connection Count
- Get Connections
- Create Bill Term
- Get Bill Terms
- Get Bill Term
- Close Bill Term
- Get Batches By Term
- Process Bills
- Get Connection Account Numbers by Batch
- Post Batch Billing JV to Accounts
- Post Bills

4 - User Management : Roles and assignment to Logins

Enter Role Name

Executive

- All services allowed

Creating a role for selected permission lists

Enter Email

almalik.umair@gmail.com

Enter Password

sgdda

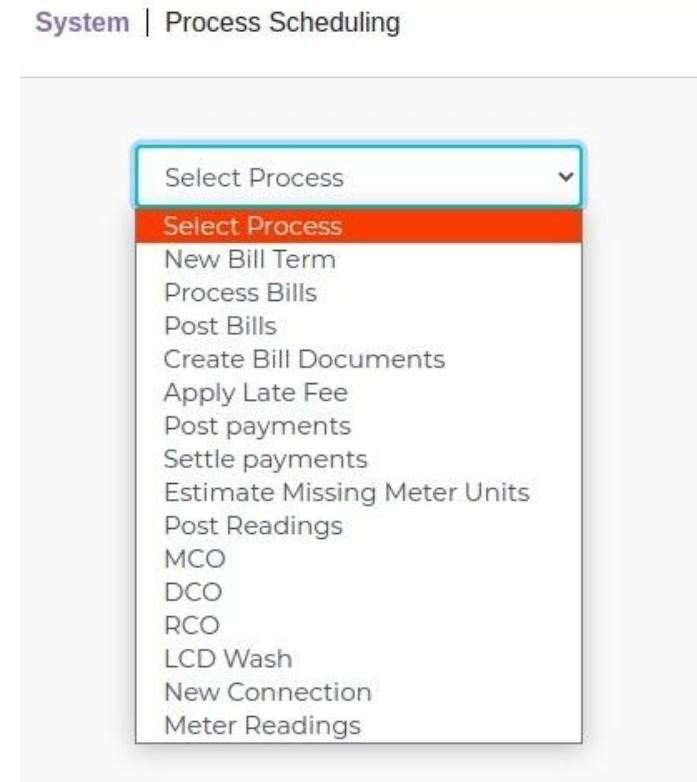
Assigning the role to a login

- Executive

5 - Processes Scheduling

- Long running processes
- Process scheduling
- Recurring Processes
- Process status

5 - Processes Scheduling : Long running processes



5 - Processes Scheduling : Process Scheduling

Post Readings ▾

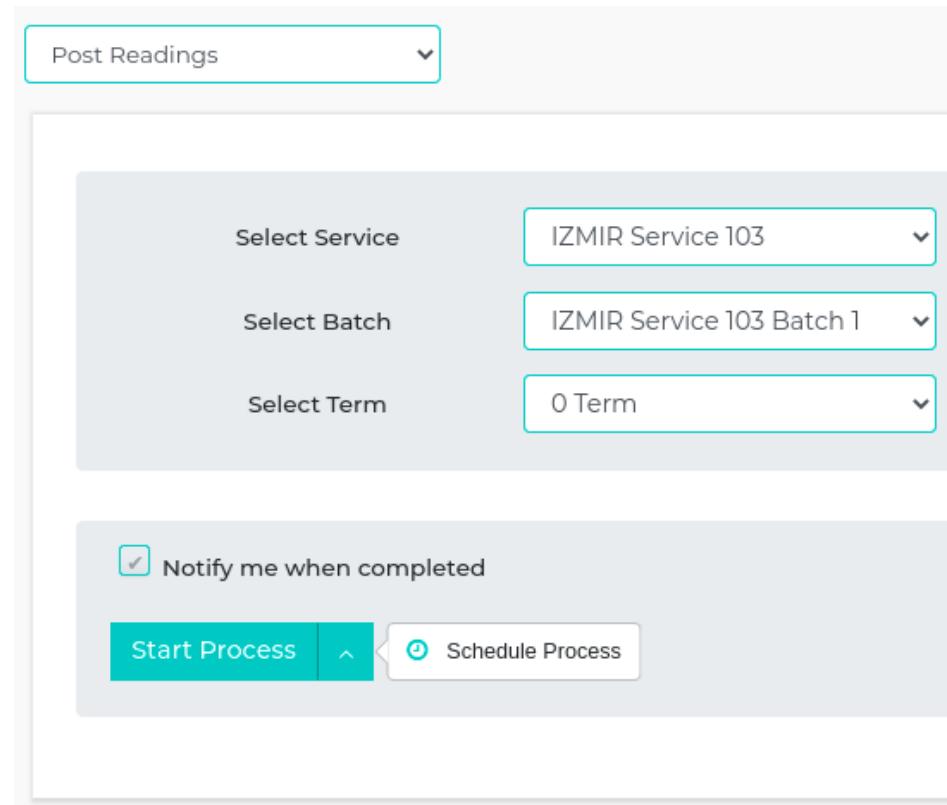
Select Service IZMIR Service 103 ▾

Select Batch IZMIR Service 103 Batch 1 ▾

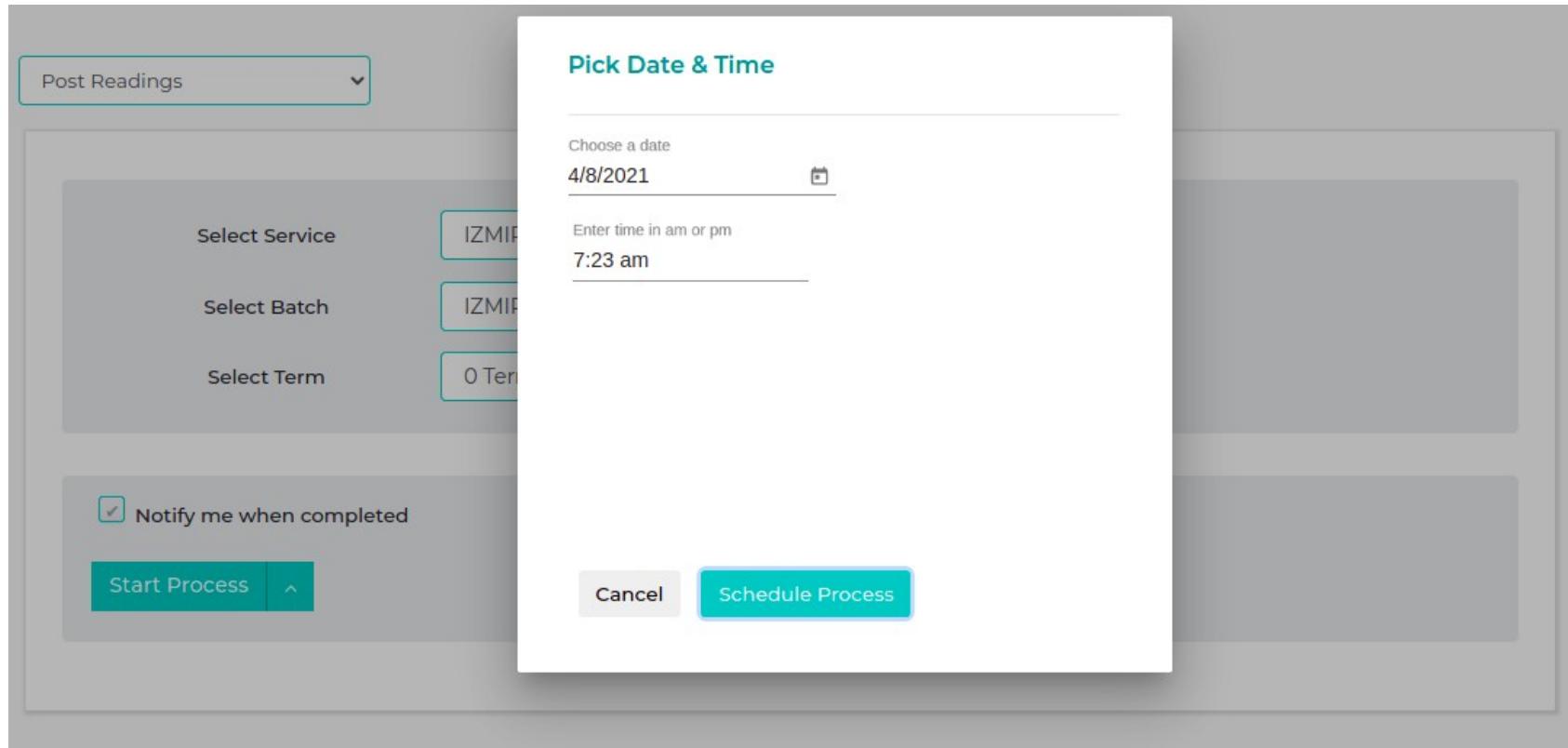
Select Term 0 Term ▾

Notify me when completed

Start Process ▾ **Schedule Process**

The image shows a user interface for scheduling a process. At the top, a dropdown menu is set to 'Post Readings'. Below it, three dropdown menus are stacked vertically: 'Select Service' (set to 'IZMIR Service 103'), 'Select Batch' (set to 'IZMIR Service 103 Batch 1'), and 'Select Term' (set to '0 Term'). At the bottom, there is a checked checkbox labeled 'Notify me when completed'. Below the checkbox are two buttons: a teal 'Start Process' button and a white 'Schedule Process' button with a blue clock icon. The entire interface is contained within a light gray box.

5 - Processes Scheduling : Process Scheduling



5 - Processes Scheduling : Process Status

Status goes from Pending to Progress to Done or Fail



Records containing New Bill Term			
Process	Process ID	Service Code	Status
New Bill Term	63	IZM103	Done
New Bill Term	55	IZM103	Done
New Bill Term	47	IZM103	Done
New Bill Term	37	IZM103	Done
New Bill Term	29	IZM103	Done
New Bill Term	21	IZM103	Done
New Bill Term	12	IZM103	Done
New Bill Term	3	IZM103	Done
New Bill Term	1	IZM103	Done

9 total

6 - Accounting

- Chart of Accounts
- General Journal
- Ledgers
- General JV posting interface

6 - Accounting : Chart of Accounts

Account Name	Description	Balance
▼  Assets (1)	This is the root Account for all asset Accounts.	47906600
▼  IZMIR Service 103 (24)	Service asset account.	47906600
►  Accounts Receivable (30)	Service accounts receivable balance.	9355739.965
►  Current Assets (22)	Service current asset accounts balance.	38550860.035
►  Suspense Account (20)	Service suspense account.	0
►  Equity (10)	This is Equity account	0
►  Expense (7)	This is Expense Account	0
▼  Income (12)	This is the root Account for owner.	47906600
▼  IZMIR Service 103 (26)	Organization income account.	47906600
►  Other (36)	Organization payable account.	7561298
►  G1 Garbage (38)	Organization payable account.	5544600
►  G1 Maintenance (39)	Organization payable account.	12277600
►  G1 Water (40)	Organization payable account.	11914200
►  LP Charges (42)	Organization payable account.	10608902
▼  Liabilities (15)	This is the root Account for all components of all services.	0
▼  IZMIR Service 103 (27)	Organization payable account.	0
►  Electricity Charges (34)	Component liability account.	0
►  WHT (35)	Component liability account.	0
► G1 Street Light (37)	Component liability account.	0

6 - Accounting : General Journal

Accounting | General Journal

Records containing									
Columns Rows Group By Having Search									
Account #	Transaction #	Transaction Date	Posting Date	Description	Dr	Cr	Reference #	Reference Type	Posted
37414	2258	27/05/2020	5/04/2021	SETTLEMENT		1393.75	0	Invoice	1
37433	2258	27/05/2020	5/04/2021	SETTLEMENT		0	0	Invoice	1
37452	2258	27/05/2020	5/04/2021	SETTLEMENT		2063.35	0	Invoice	1
37471	2258	27/05/2020	5/04/2021	SETTLEMENT		0	0	Invoice	1
37490	2258	27/05/2020	5/04/2021	SETTLEMENT		2932.75	0	Invoice	1
37509	2258	27/05/2020	5/04/2021	SETTLEMENT		0	0	Invoice	1
37528	2258	27/05/2020	5/04/2021	SETTLEMENT		0	0	Invoice	1
37547	2258	27/05/2020	5/04/2021	SETTLEMENT		0	0	Invoice	1
37566	2258	27/05/2020	5/04/2021	SETTLEMENT		0	0	Invoice	1
37585	2258	27/05/2020	5/04/2021	SETTLEMENT		1270.35	0	Invoice	1

348,694 total

◀ ◀ 34864 34865 34866 34867 34868 ▶ ▶

6 - Accounting : Ledgers

Title	Electricity Charges
Type	receivable
Description	test conn
Balance	5504.6
Status	ACTIVE

Transaction Date	Posting Date	Description	Transaction Number	dr	cr	Reference type	Reference ID	Balance
01/09/2019	04/04/2021	OPENING BALANCE	6	0		OPENING BALANCE	0	0
01/10/2019	04/04/2021	BILLING	2002	22494		Invoice	2052	22494
26/10/2019	4/04/2021	SETTLEMENT	2030		22494	Invoice	0	0
01/11/2019	04/04/2021	BILLING	2031	16663.5		Invoice	4099	16663.5
27/11/2019	4/04/2021	SETTLEMENT	2060		16663.5	Invoice	0	0
01/12/2019	04/04/2021	BILLING	2061	14076		Invoice	6146	14076

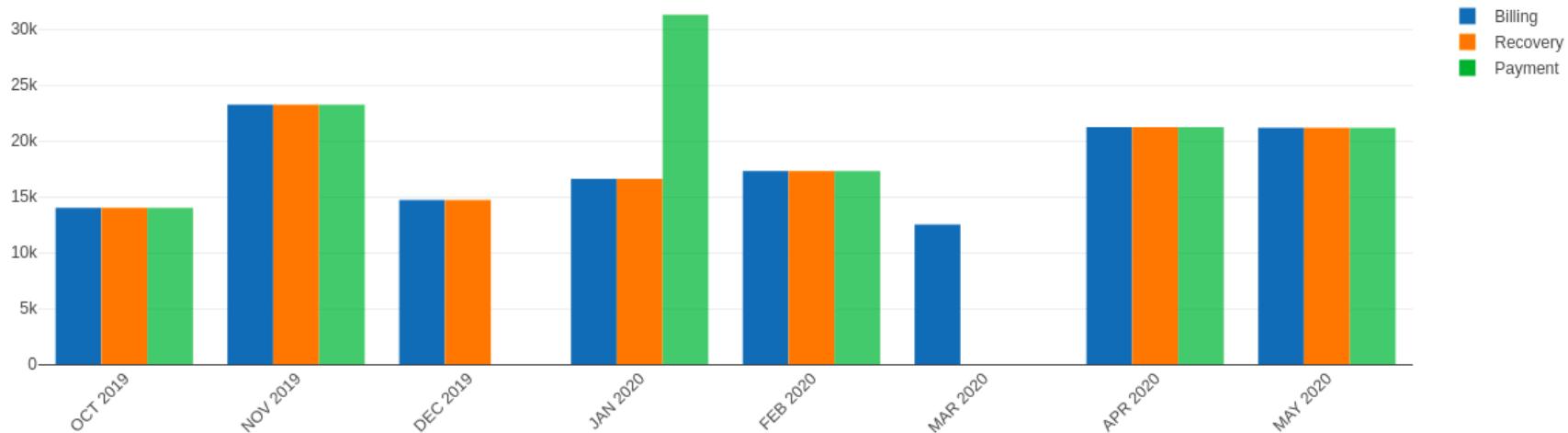
6 - Accounting : General JV posting interface

04/08/2021	<input type="button" value=""/>	Description
Account Number	dr	0
Account Number	dr	0
<input type="button" value="Add"/>		

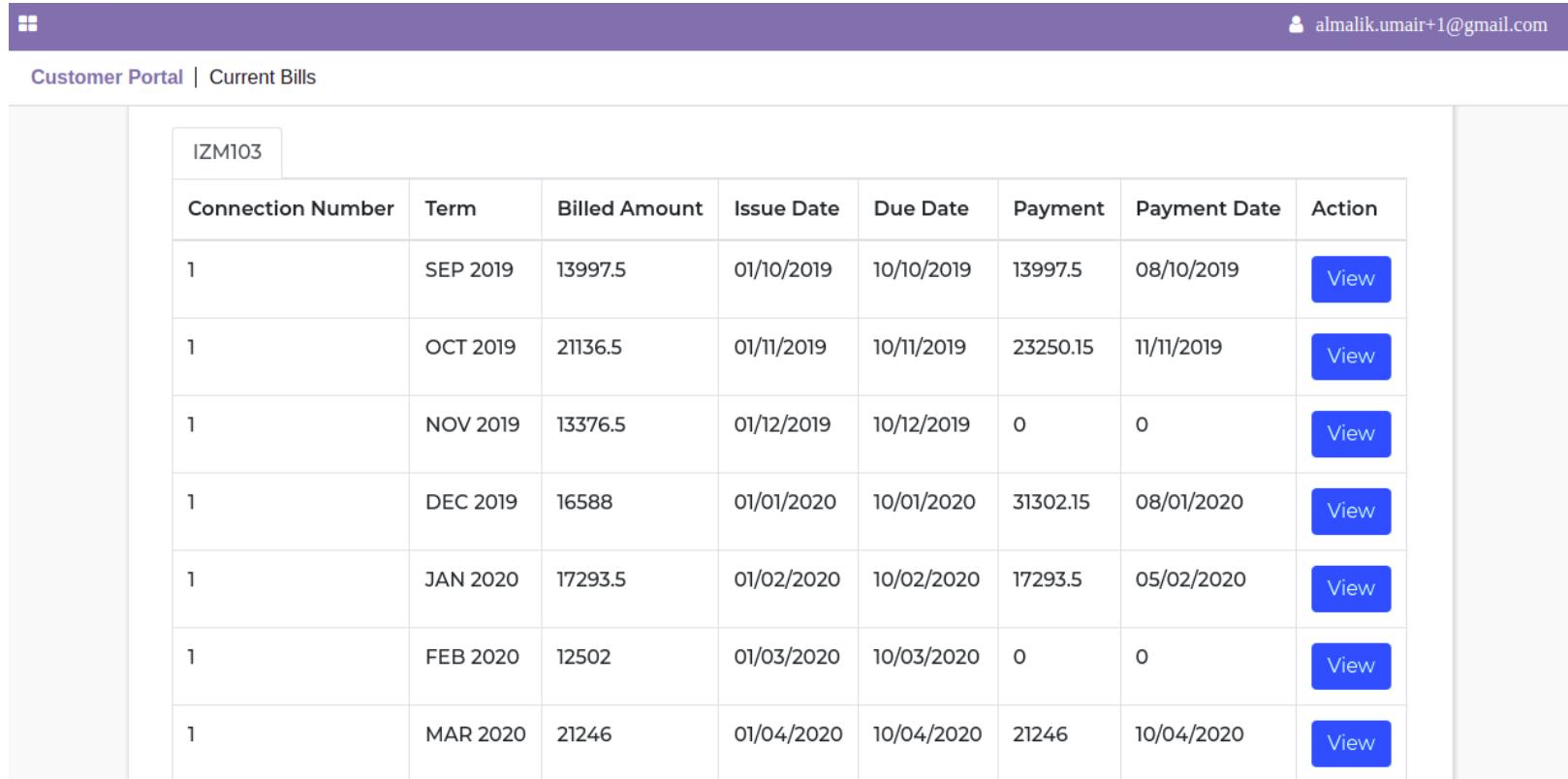
7 - Customer Portal : Dashboard

Export

Billing-Recovery-Payment



7 - Customer Portal : Bills history

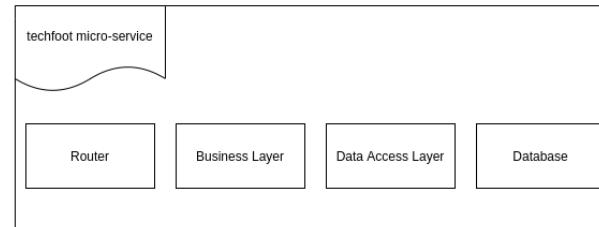
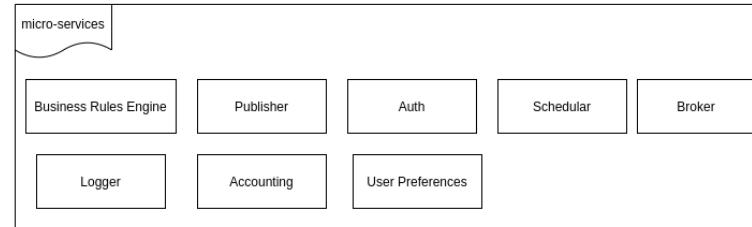
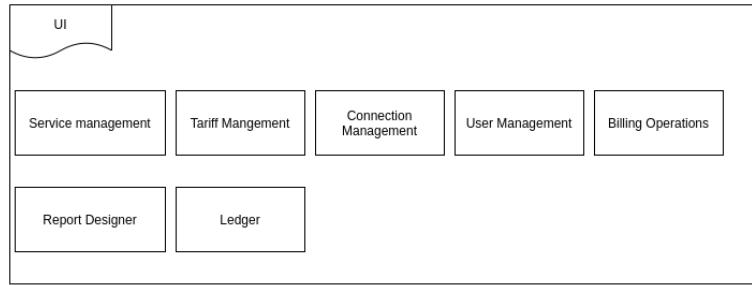


A screenshot of a Customer Portal interface showing a list of bills history. The top navigation bar is purple with a grid icon, a user profile icon, and the email address almalik.umair+1@gmail.com. Below the header, the page title is "Customer Portal | Current Bills". The main content is a table with the following data:

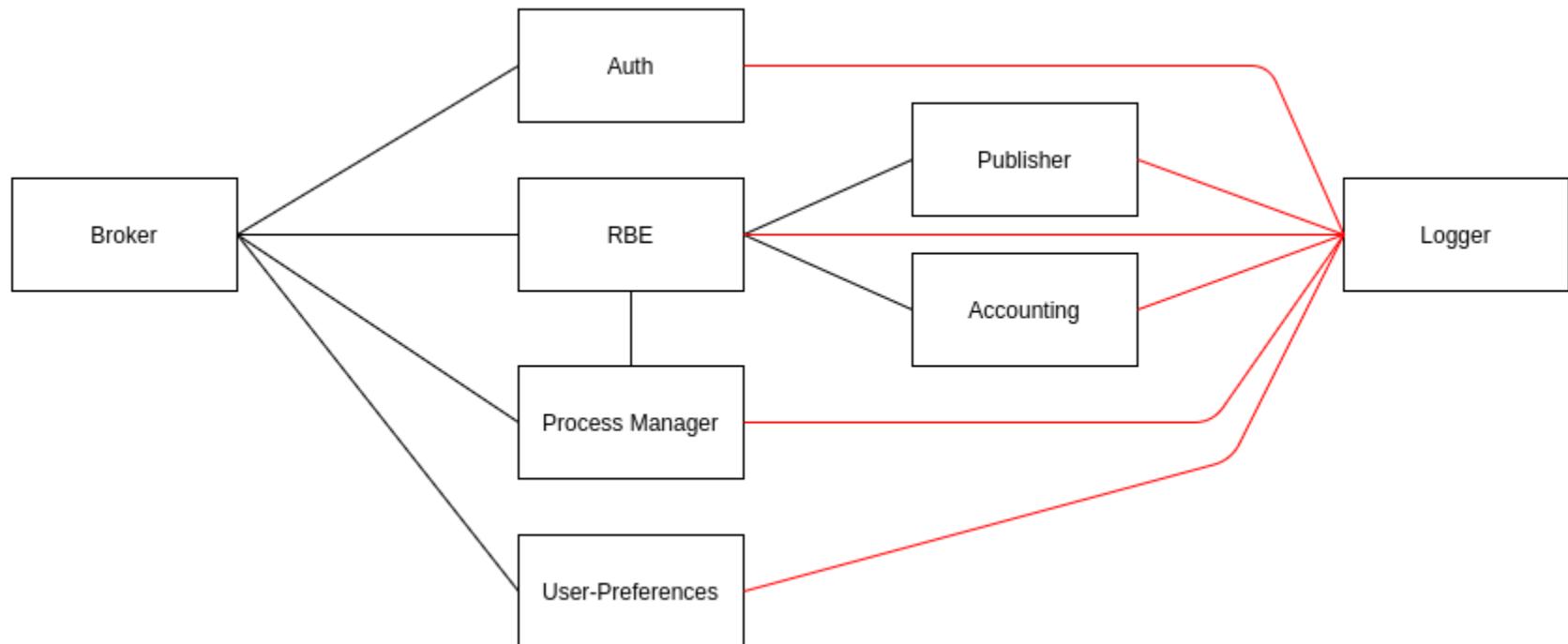
Connection Number	Term	Billed Amount	Issue Date	Due Date	Payment	Payment Date	Action
1	SEP 2019	13997.5	01/10/2019	10/10/2019	13997.5	08/10/2019	<button>View</button>
1	OCT 2019	21136.5	01/11/2019	10/11/2019	23250.15	11/11/2019	<button>View</button>
1	NOV 2019	13376.5	01/12/2019	10/12/2019	0	0	<button>View</button>
1	DEC 2019	16588	01/01/2020	10/01/2020	31302.15	08/01/2020	<button>View</button>
1	JAN 2020	17293.5	01/02/2020	10/02/2020	17293.5	05/02/2020	<button>View</button>
1	FEB 2020	12502	01/03/2020	10/03/2020	0	0	<button>View</button>
1	MAR 2020	21246	01/04/2020	10/04/2020	21246	10/04/2020	<button>View</button>

Technical Overview

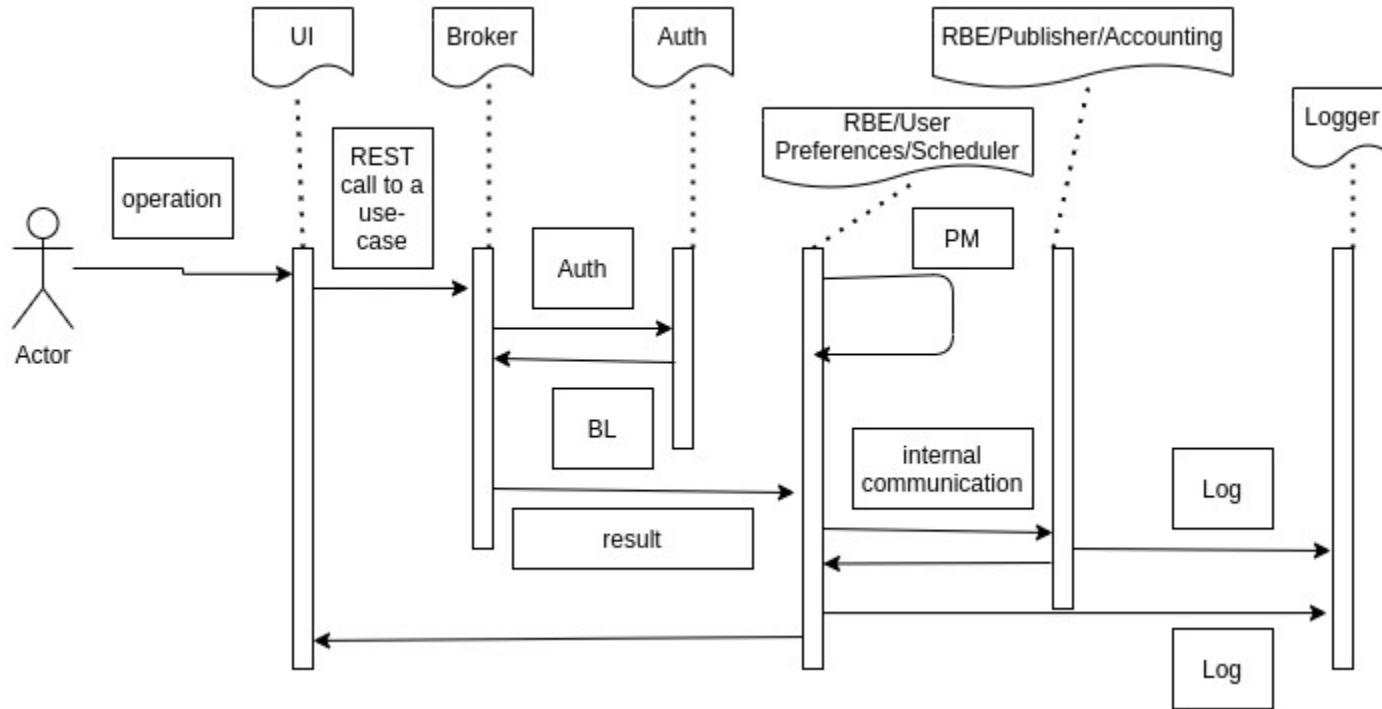
Architecture



BillSpree micro-services interactions



BillSpree micro-services interactions



BillSpree micro-service

