



TCFM

Blibli.com Future Program

Batch 3.0 - Fase 2

Team Medan

Team Cash Flow Management

Oleh:

Anthony

Muhammad Habib

Robin

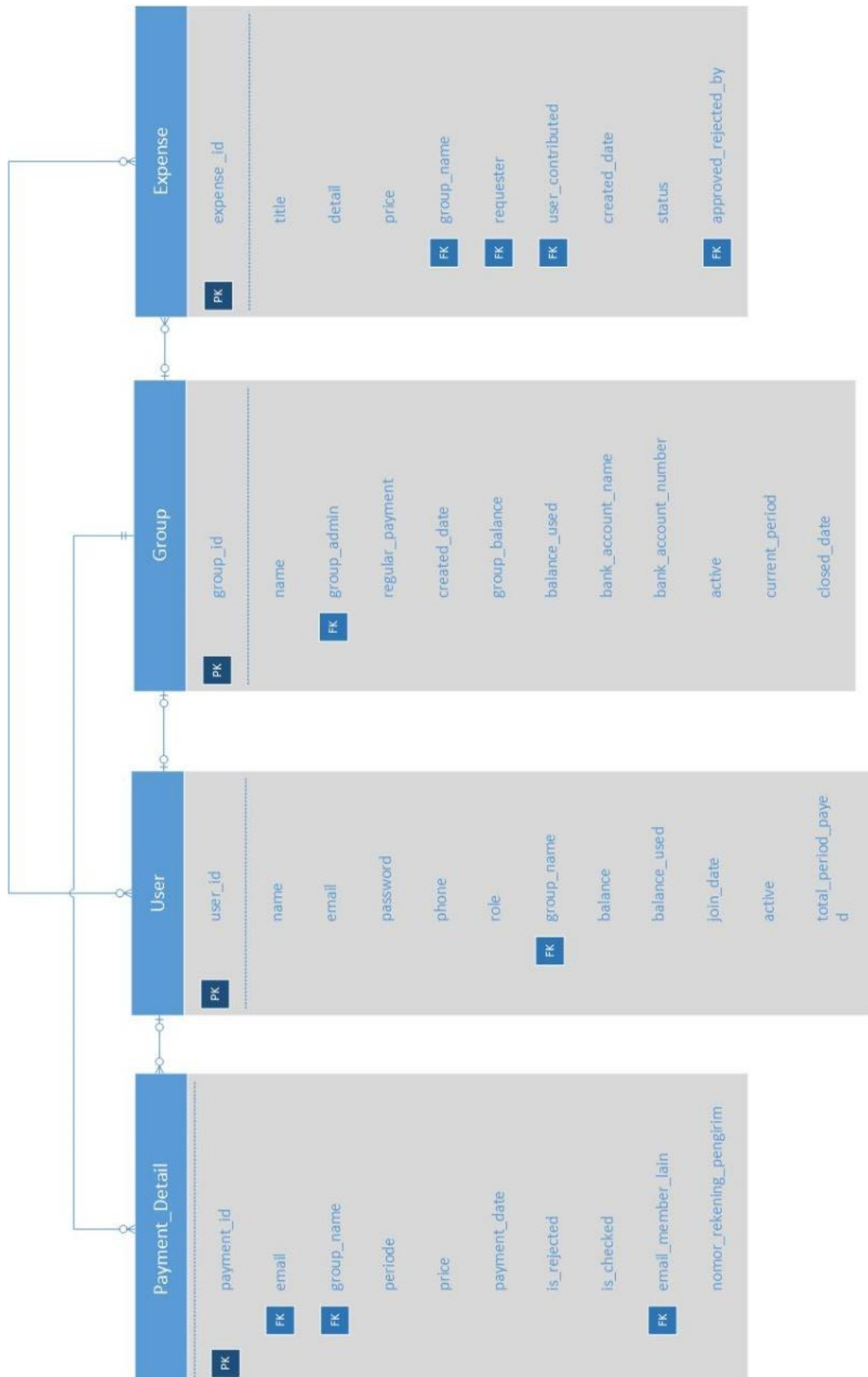
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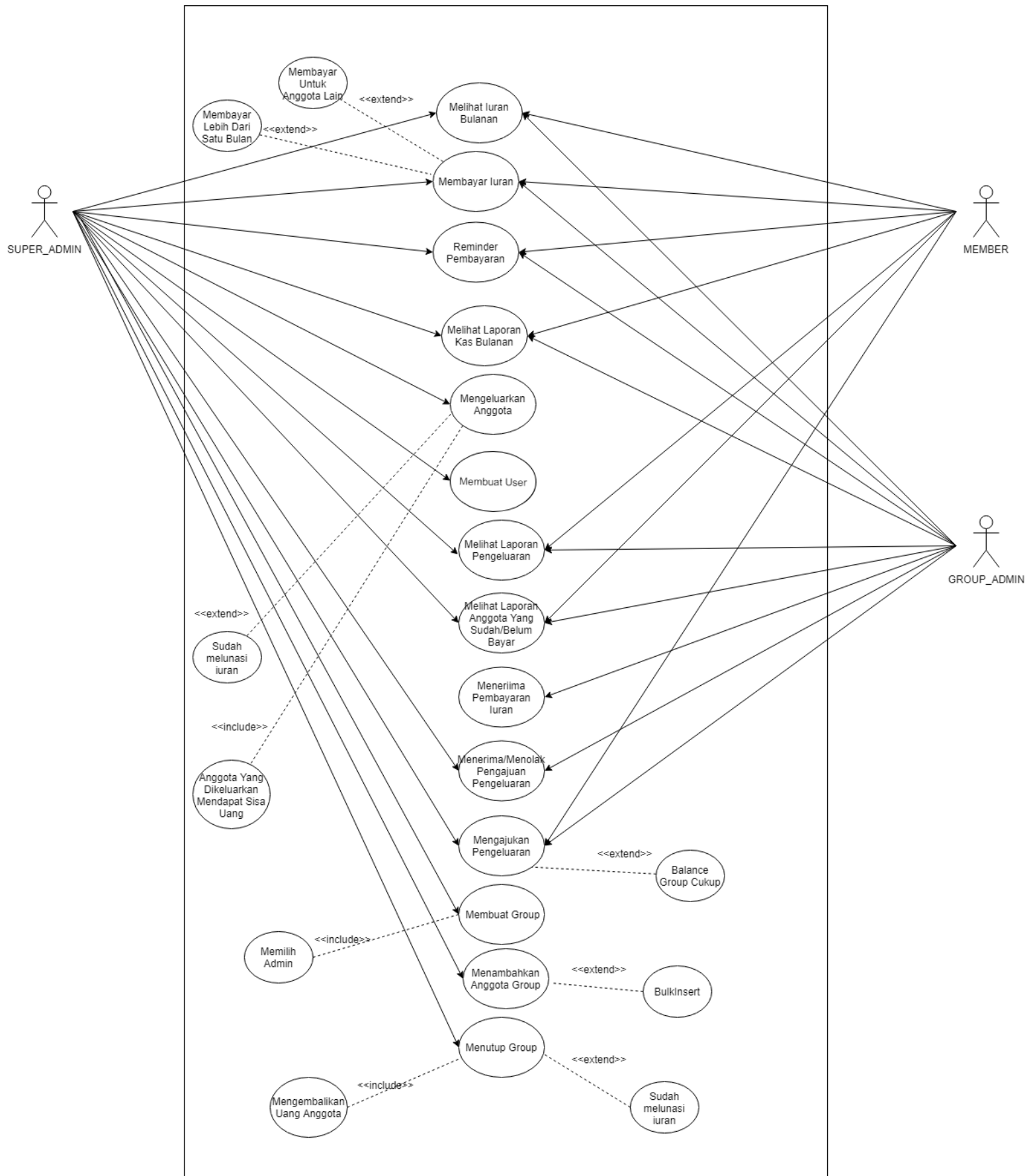
User Requirement

- Aplikasi ini berfungsi untuk melakukan tracking terhadap iuran bulanan yang nantinya akan dipakai untuk keperluan tertentu dalam satu kelompok (misalnya: makan bersama, beli peralatan, dll)
- Aplikasi ini bisa mengingatkan setiap user untuk membayar ketika sudah mau jatuh tempo
- Aplikasi ini menyediakan laporan kas bulanan yang bisa dilihat setiap akhir bulan
- Kalau ada anggota yang keluar, sisa uang kas yang sudah dibayarkan akan dikembalikan kepada anggota tersebut. Jika masih terdapat tunggakan yang belum dibayar, tunggakan tersebut harus dilunasi terlebih dahulu
- Akan menampilkan report pengeluaran / pemakaian dana untuk staf yang keluar
- Bisa sekali bayar langsung untuk berbulan-bulan ke depan
- Ada 3 role: super admin, group admin dan member. Hanya grup admin yang bisa meng-acc pembayaran di dalam masing-masing tim
- Dalam melakukan pengeluaran, harus ada persetujuan dari group admin di dalam tim
- Semua anggota tim bisa mengajukan sebuah expenses baru
- Super admin yang bisa membuat tim dan setiap kali tim baru dibuat, super admin harus langsung memilih siapa admin untuk tim tersebut. Masing-masing tim hanya bisa punya 1 admin. Status admin bisa dipindahtangankan.
- Tim bisa ditutup oleh admin masing-masing tim setelah dana dikembalikan / dipakai sepenuhnya. (syarat tutup tim adalah saldo tim = 0)
- Admin bisa leave tim, dengan syarat harus menunjuk salah satu anggota untuk menjadi admin baru.
- Member tidak bisa keluar masuk sendiri. Harus dimasukkan dan dikeluarkan oleh super admin.
- Semua pengguna bisa melihat jumlah kas dan riwayat pemasukan / pengeluaran tim di bagian dashboard, expense, dan payment
- Bisa melakukan pembayaran untuk anggota lain
- Kirim email waktu approve dan reject ke admin, requester dan super admin
- Super admin power full
- Kirim email untuk reminder bayar uang setiap akhir bulan
- Isi emailnya belum bayar dari bulan ke x ke y
- Minta fitur bulk untuk daftar peserta, nama, email, no hp, supervisor, role, nama tim

ERD

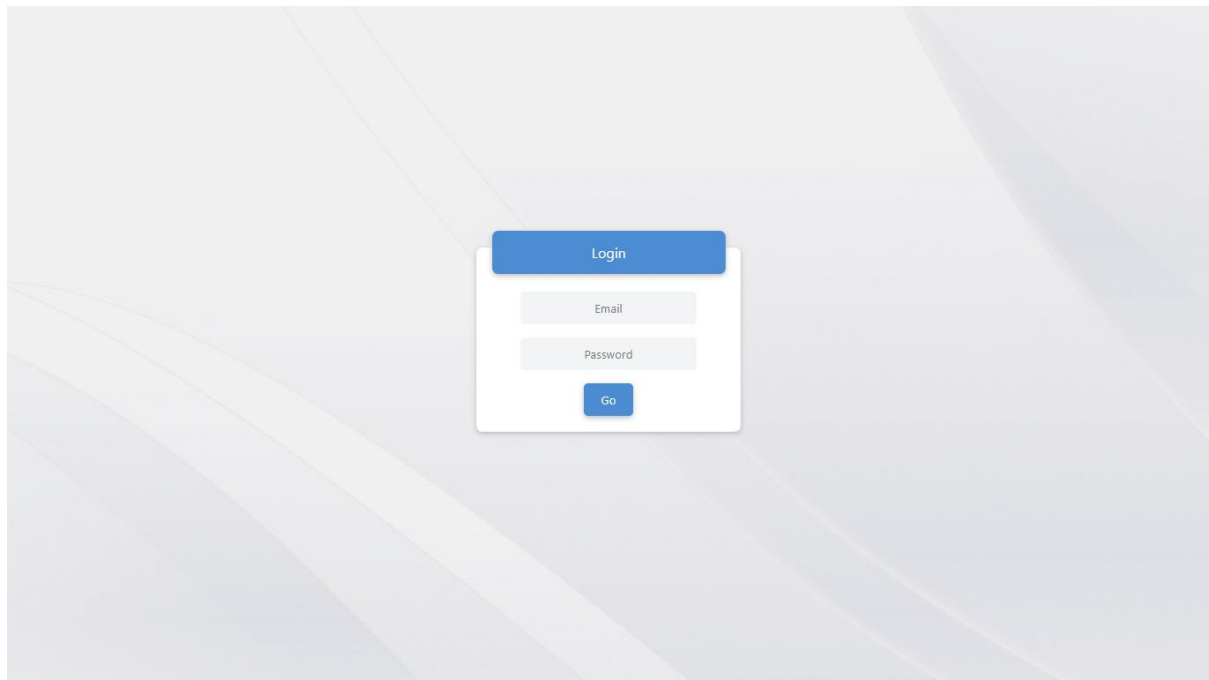


Use Case Diagram

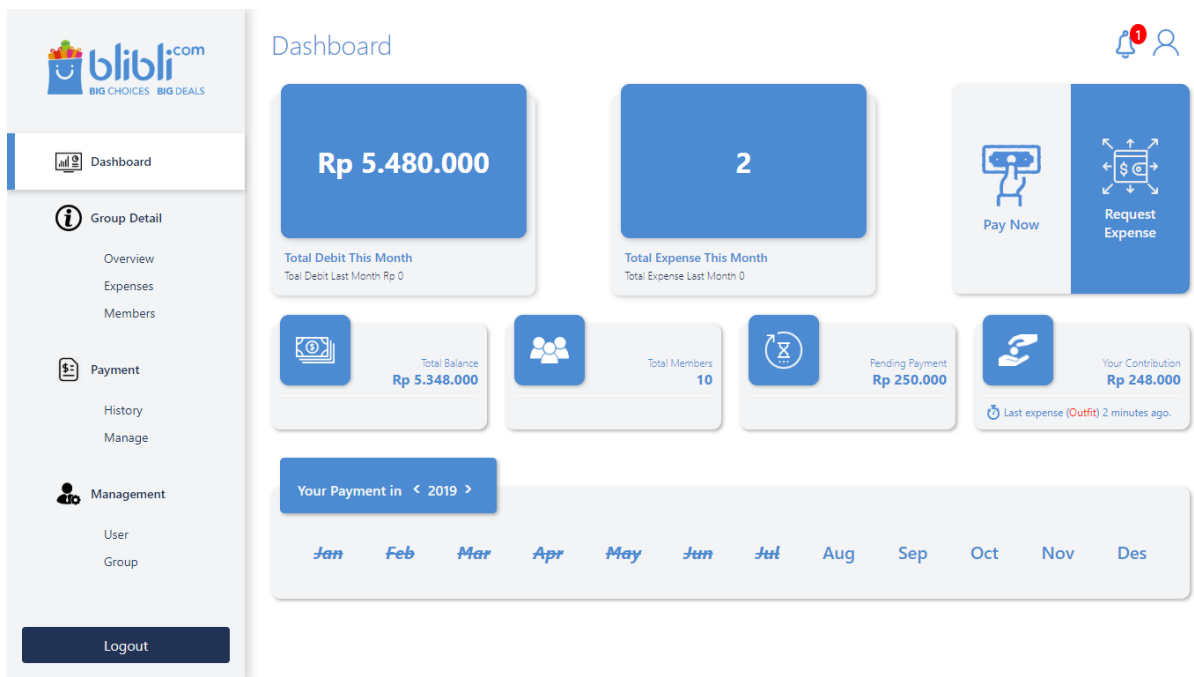


Mockups

Login Page



Dashboard Admin



Dashboard Group Admin & Member

The dashboard for Blibli.com Group Admin & Member. The left sidebar contains navigation links: Dashboard, Group Detail (Overview, Expenses, Members), Payment (History, Manage), and Logout. The main content area is titled 'Dashboard' and features several key metrics:

- Total Debit This Month:** Rp 5.480.000 (Total Debit Last Month Rp 0)
- Total Expense This Month:** 2 (Total Expense Last Month 0)
- Total Balance:** Rp 5.348.000
- Total Members:** 10
- Pending Payment:** Rp 0
- Your Contribution:** Rp 298.000

At the bottom, there is a 'Your Payment in' section for the year 2019, with a calendar view showing months from Jan to Dec. A 'Pay Now' button is visible in the top right corner.

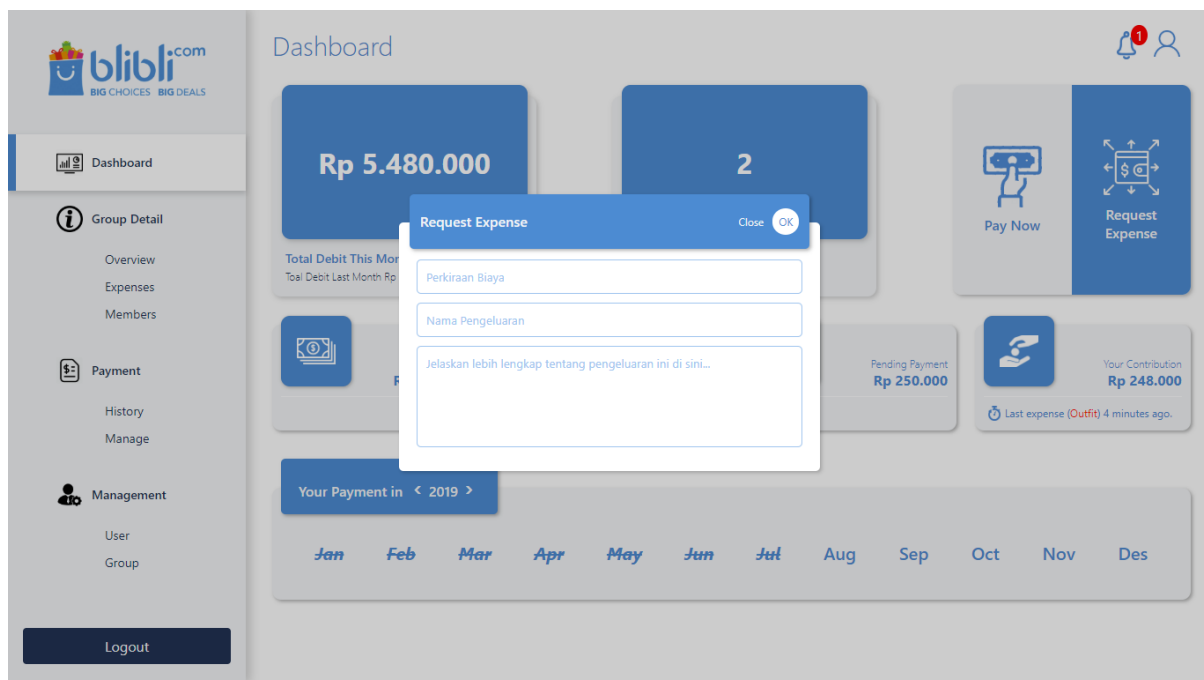
Paynow

The dashboard is shown with the 'Pay Now' modal open. The modal contains the following information:

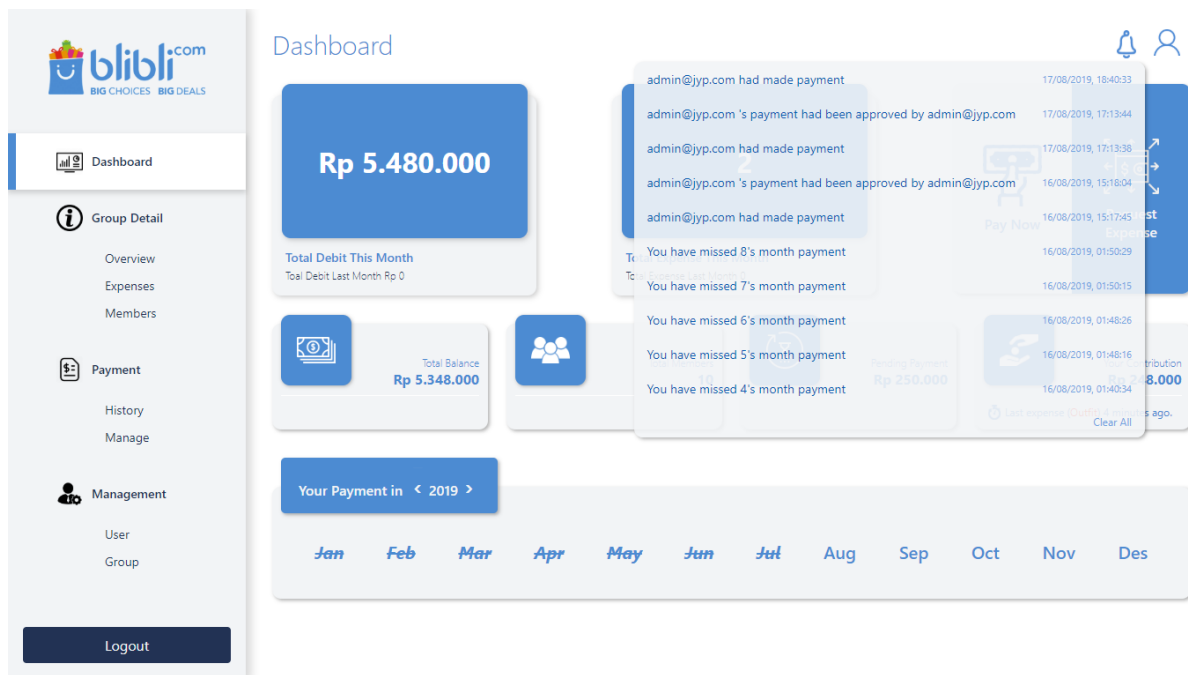
- Pay Now** (Close, OK)
- Pembayaran terakhir Anda:** July
- Transfer to account number:** 828123456 a.n. sana@jyp.com
- Number of periods:** Total harus dibayar: Rp 0
- Bank Account Number:** dd/mm/yyyy (Choose file, No file chosen)
- Bank Account Name:**
- ☐ Pay for other member?

The background dashboard shows the same metrics as the first screenshot, but with updated values: Total Debit This Month is Rp 5.480.000, Total Expense This Month is 2, Total Balance is Rp 5.348.000, Total Members is 10, Pending Payment is Rp 250.000, and Your Contribution is Rp 248.000. The 'Pay Now' button is highlighted in the top right corner.


Request Expense



Notification



My Profile


BIG CHOICES BIG DEALS

Dashboard

Group Detail

- Overview
- Expenses
- Members

Payment

- History
- Manage

Logout

My Profile



User Id : 5d56c4fd5457ef125425b38a



Update Profile


Group Info

Group Name : JYP , joined since 16 August 2019
My Balance / Contribution : -498000 / 298000
Period Paid / Period Missed : 1 / 0

Personal Info

Email : sana@jyp.com
Name : Sana
Phone : 8123456
Role : GROUP_ADMIN

Overview


BIG CHOICES BIG DEALS

Dashboard

Group Detail

- Overview
- Expenses
- Members

Payment

- History
- Manage


Management


- User
- Group

Logout

Group JYP's Overview




Balance
Rp 5.348.000


Members
10

6/10

Members completed regular payments.

50,61%

Total balance is used.

Latest Expenses

Date	Detail	Price
1. 17 August 2019	Expense Dummy 6	Rp 74.000
2. 17 August 2019	Expense Dummy 5	Rp 1.000
3. 17 August 2019	Expense Dummy 4	Rp 345.000
4. 17 August 2019	Expense Dummy 3	Rp 36.000
5. 17 August 2019	Expense Dummy 2	Rp 17.000
6. 17 August 2019	Expense Dummy 1	Rp 15.000
7. 17 August 2019	Bayar parkir	Rp 65.000
8. 17 August 2019	Recording	Rp 4.000.000
9. 17 August 2019	Makan Siana	Rp 600.000

Latest Activity

jihyo@jyp.com 's requested expense had been approved (Outfit)

11 minutes ago

nayeon@jyp.com requested new expense (Expense Dummy 6)

an hour ago

nayeon@jyp.com requested new expense (Expense Dummy 5)

an hour ago


nayeon@jyp.com requested new expense (Expense Dummy 4)

an hour ago

nayeon@jyp.com requested new expense (Expense Dummy 3)

an hour ago

Expenses





BIG CHOICES BIG DEALS

- Dashboard
- Group Detail
 - Overview
 - Expenses
 - Members
- Payment
 - History
 - Manage
- Management
 - User
 - Group

Logout


Group JYP's Expenses



All Expenses

	Date	Title	Status	Price	Contributors
1.	17 August 2019	Expense Dummy 6	Waiting	Rp 74.000	10 Members
2.	17 August 2019	Expense Dummy 5	Waiting	Rp 1.000	10 Members
3.	17 August 2019	Expense Dummy 4	Waiting	Rp 345.000	10 Members
4.	17 August 2019	Expense Dummy 3	Waiting	Rp 36.000	10 Members
5.	17 August 2019	Expense Dummy 2	Waiting	Rp 17.000	10 Members
6.	17 August 2019	Expense Dummy 1	Waiting	Rp 15.000	10 Members
7.	17 August 2019	Bayar parkir	Waiting	Rp 65.000	10 Members
8.	17 August 2019	Recording	Waiting	Rp 4.000.000	10 Members
9.	17 August 2019	Makan Siang	Waiting	Rp 600.000	10 Members

Expense Details





BIG CHOICES BIG DEALS

- Dashboard
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Logout

Group JYP's Expenses



All Expenses

Expense Detail

Close

Requested By : jihyo@jyp.com 17 August 2019

Cost : Rp 600.000

Title : Makan Siang


Makan hanamasa Tzuyu, Sana, Dahyun

Status : Waiting Response

Reject Accept

	Date	Title	Status	Price	Contributors
3.	17 Au			Rp 345.000	10 Members
4.	17 Au			Rp 36.000	10 Members
5.	17 Au			Rp 17.000	10 Members
6.	17 Au			Rp 15.000	10 Members
7.	17 Au			Rp 65.000	10 Members
8.	17 Au			Rp 4.000.000	10 Members
9.	17 Au			Rp 600.000	10 Members
10.	17 Au			Rp 3.980.000	10 Members
11.	17 August 2019	Sound System	Accepted	Rp 1.500.000	10 Members

Members



BIG CHOICES BIG DEALS

- Dashboard
- Group Detail
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 - Members
- Payment
 - History
 - Manage
- Management
 - User
 - Group


Logout

Group JYP's Members



All Members				
Query by name		name		
Name	Email	Phone	Role	Join Date
1. Admin	admin@jyp.com	0821	SUPER_ADMIN	17 August 2019
2. Chaeyoung	chaeyoung@jyp.com	8123460	MEMBER	16 August 2019
3. Dahyun	dahyun@jyp.com	8123462	MEMBER	16 August 2019
4. Jeongyeon	jeongyeon@jyp.com	8123463	MEMBER	16 August 2019
5. Jihyo	jihyo@jyp.com	8123461	MEMBER	16 August 2019
6. Mina	mina@jyp.com	8123457	MEMBER	16 August 2019
7. Momo	momo@jyp.com	8123459	MEMBER	16 August 2019
8. Nayeon	nayeon@jyp.com	8123464	MEMBER	16 August 2019
9. Sana	sana@jyp.com	8123456	GROUP_ADMIN	16 August 2019

Payment History



BIG CHOICES BIG DEALS

- Dashboard
- Group Detail
 - Overview
 - Expenses
 - Members
- Payment
 - History
 - Manage
- Management
 - User
 - Group

Logout

Group JYP's Members' Payment



First payment start from : August 2019

Payment Table < 2019 >

Search by period

period

Name	Group	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Nayeon	JYP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2. Chaeyoung	JYP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3. Dahyun	JYP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4. Jihyo	JYP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5. Mina	JYP	✓	✓	✓	✓	✓	✓	✓	✓	✓			
6. Sana	JYP	✓	✓	✓	✓	✓	✓	✓	✓				
7. Admin	JYP	✓	✓	✓	✓	✓	✓	✓					
8. Tzuyu	JYP	✓	✓	✓	✓	✓	✓	✓					
9. Momo	JYP	✓	✓	✓	✓	✓	✓	✓					

Manage Payment

- Dashboard
- Group Detail
 - Overview
 - Expenses
 - Members
- Payment
 - History
 - Manage
- Management
 - User
 - Group
- Logout

Group JYP's Members' Payment

Manage Payments

	PaymentDate	Email	Status	Periode	Price
1.	18 August 2019	admin@jyp.com	Pending	5	Rp 250.000
2.	17 August 2019	mina@jyp.com	Accepted	2	Rp 100.000
3.	17 August 2019	jihyo@jyp.com	Accepted	3	Rp 150.000
4.	16 August 2019	mina@jyp.com	Accepted	4	Rp 200.000
5.	16 August 2019	sana@jyp.com	Accepted	1	Rp 50.000
6.	15 August 2019	jihyo@jyp.com	Accepted	4	Rp 200.000
7.	14 August 2019	jihyo@jyp.com	Pending	1	Rp 50.000
8.	12 July 2019	nayeon@jyp.com	Accepted	7	Rp 350.000
9.	1 January 2019	admin@jyp.com	Accepted	2	Rp 24.000

Payment Detail

- Dashboard
- Group Detail
 - Overview
 - Expenses
 - Members
- Payment
 - History
 - Manage
- Management
 - User
 - Group
- Logout

Group JYP's M

Manage Paym

	PaymentDate	Periode	Price
1.	18 August 2019	5	Rp 250.000
2.	17 August 2019	2	Rp 100.000
3.	17 August 2019	3	Rp 150.000
4.	17 August 2019	6	Rp 300.000
5.	16 August 2019	4	Rp 200.000
6.	16 August 2019	1	Rp 50.000
7.	15 August 2019	4	Rp 200.000
8.	14 August 2019	1	Rp 50.000
9.	12 July 2019	7	Rp 350.000

Payment Id : 5d57eaa8137a730458366b52

Close

Nama Pengirim : BCA

17 August 2019

Bayar Untuk : admin@jyp.com

Total Period : 6 (Rp 300.000)

Bukti Pembayaran :

m-Transfer

m-Transfer:

Dari 6

Ke 00

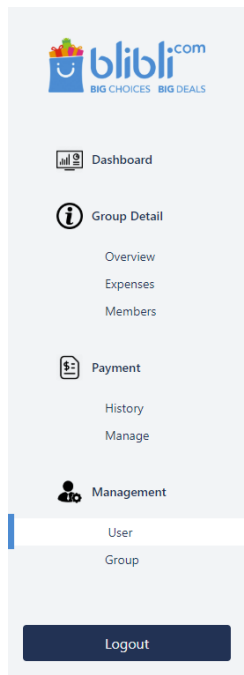
Rp 300,000.00

Status : Pending

Reject

Accept

Manage User



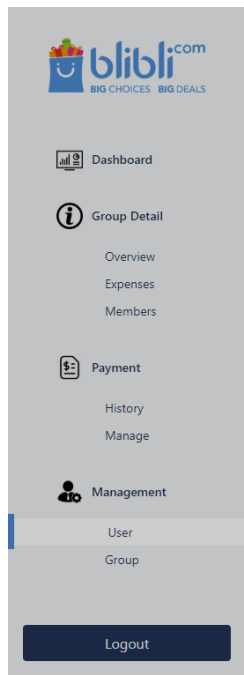
Manage User

Manage User

Search by name:

	Group	Name	Email	Phone	Role
1	Dummy40	Abigail	abigail.harris@dummy.com	8123553	GROUP_ADMIN
2	Dummy26	Adam	adam.mclean@dummy.com	8123496	MEMBER
3	JYP	Admin	admin@jyp.com	0821	SUPER_ADMIN
4	Dummy4	Adrian	adrian.bond@dummy.com	8123517	GROUP_ADMIN
5	Dummy18	Alexander	alexander.piper@dummy.com	8123531	GROUP_ADMIN
6	Dummy12	Alison	alison.mills@dummy.com	8123525	GROUP_ADMIN
7	Dummy11	Amanda	amanda.lambert@dummy.com	8123481	MEMBER
8	Dummy6	Amelia	amelia.mackenzie@dummy.com	8123476	MEMBER
9	Dummy3	Amelia	amelia.dyer@dummy.com	8123516	GROUP_ADMIN

User Detail



Manage User

Manage User

Search by name:

	Group	Name	Email	Phone	Role
62	Dummy			8123532	GROUP_ADMIN
63	Dummy			8123546	GROUP_ADMIN
64	Dummy			8123483	MEMBER
65	YG			8123465	GROUP_ADMIN
66	Dummy			8123538	GROUP_ADMIN
67	Dummy			8123522	GROUP_ADMIN
68	Dummy			8123533	GROUP_ADMIN
69	Dummy			8123484	MEMBER
70	Dummy42	Matt	matt.blake@dummy.com	8123555	GROUP_ADMIN

User Id : 5d56c4fd5457ef125425b393

Resign User Edit Close

Created Date : 16 August 2019

Name : Lisa

Email : lisa@yg.com

Phone : 8123465

Balance / Contribution : Rp 0.00 / Rp 0.00

Period Paid / Missed : 0 / 1

Group Name / Role : YG / GROUP_ADMIN

Edit User Detail

The screenshot shows the 'Manage User' interface with a sidebar on the left containing navigation links: Dashboard, Group Detail (Overview, Expenses, Members), Payment (History, Manage), and Management (User, Group). The main area displays a table of users. A modal window is open for editing user details, showing the following information:

- User Id : 5d56c4fd5457ef125425b393
- Created Date : 16 August 2019
- Name : Lisa
- Email :
- Phone : 8123465
- Balance / Contribution : 0 / 0
- Period Paid / Missed : 0 / 1
- Group Name / Role : YG / Group Admin
- Password : New Password / Repeat Password

The background table lists users with columns: Group, Name, Phone, and Role. The roles listed are GROUP_ADMIN and MEMBER.


Add New User

The screenshot shows the 'Manage User' interface with the same sidebar as above. The main area displays the same table of users. A modal window is open for adding a new user, showing the following information:

- Name :
- Email :
- Phone : Phone Number
- Balance / Contribution : Balance / Contribution
- Period Paid / Missed : Period Paid / Period Missed
- Group Name / Role :
- Password : New Password / Repeat Password
- Profile Picture : Choose file / No file chosen

The background table is the same as in the previous screenshot.

Manage Group



Dashboard

Group Detail

- Overview
- Expenses
- Members

Payment

- History
- Manage

Management

- User
- Group


Logout

Manage Group

All Groups↻Add New GroupBulk Insert

Name	Admin	Balance	Regular Payment	Created Date
38. Dummy43		Rp 0	Rp 0	16 August 2019
39. Dummy5	chloe.allan@dummy.com	Rp 0	Rp 0	16 August 2019
40. Dummy6	karen.springer@dummy.com	Rp 0	Rp 0	16 August 2019
41. Dummy7	bernadette.langdon@dummy.com	Rp 0	Rp 0	16 August 2019
42. Dummy8	stephen.terry@dummy.com	Rp 0	Rp 0	16 August 2019
43. Dummy9	lucas.terry@dummy.com	Rp 0	Rp 0	16 August 2019
44. JYP	sana@jyp.com	Rp 5.348.000	Rp 50.000	16 August 2019
45. MLD	nancy@mld.com	Rp 0	Rp 0	16 August 2019
46. YG	lisa@yg.com	Rp 0	Rp 0	16 August 2019

Group Detail



Dashboard

Group Detail

- Overview
- Expenses
- Members

Payment

- History
- Manage

Management

- User
- Group

Logout

Manage Group

All Groups↻Add New GroupBulk Insert

Name	Admin	Balance	Regular Payment	Created Date
38. Dummy43		Rp 0	Rp 0	16 August 2019
39. Dummy5	chloe.allan@dummy.com	Rp 0	Rp 0	16 August 2019
40. Dummy6	karen.springer@dummy.com	Rp 0	Rp 0	16 August 2019
41. Dummy7	bernadette.langdon@dummy.com	Rp 0	Rp 0	16 August 2019
42. Dummy8	stephen.terry@dummy.com	Rp 0	Rp 0	16 August 2019
43. Dummy9	lucas.terry@dummy.com	Rp 0	Rp 0	16 August 2019
44. JYP	sana@jyp.com	Rp 5.348.000	Rp 50.000	16 August 2019
45. MLD	nancy@mld.com	Rp 0	Rp 0	16 August 2019
46. YG	lisa@yg.com	Rp 0	Rp 0	16 August 2019

Group JYP, Total Members : 10Disband GroupEditClose

- Created Date : 16 August 2019
- Group Name : JYP
- Group Admin : sana@jyp.com
- Group Bank Account : 828123456
- Group Current Period : 1
- Regular Payment : Rp 50.000
- Balance : Rp 5.348.000
- Used Balance : Rp 5.480.000

Edit Group

The screenshot shows the 'Manage Group' interface with a sidebar on the left containing navigation links: Dashboard, Group Detail (Overview, Expenses, Members), Payment (History, Manage), and Management (User, Group). The main content area is titled 'Manage Group' and features a table of groups. A modal window titled 'Group JYP, Total Members : 10' is open, allowing editing of group details. The modal includes fields for Created Date, Group Name, Group Admin, Group Bank Account, Group Current Period, Regular Payment, Balance, and Used Balance. The background table lists groups with columns for Name, Regular Payment, and Created Date.

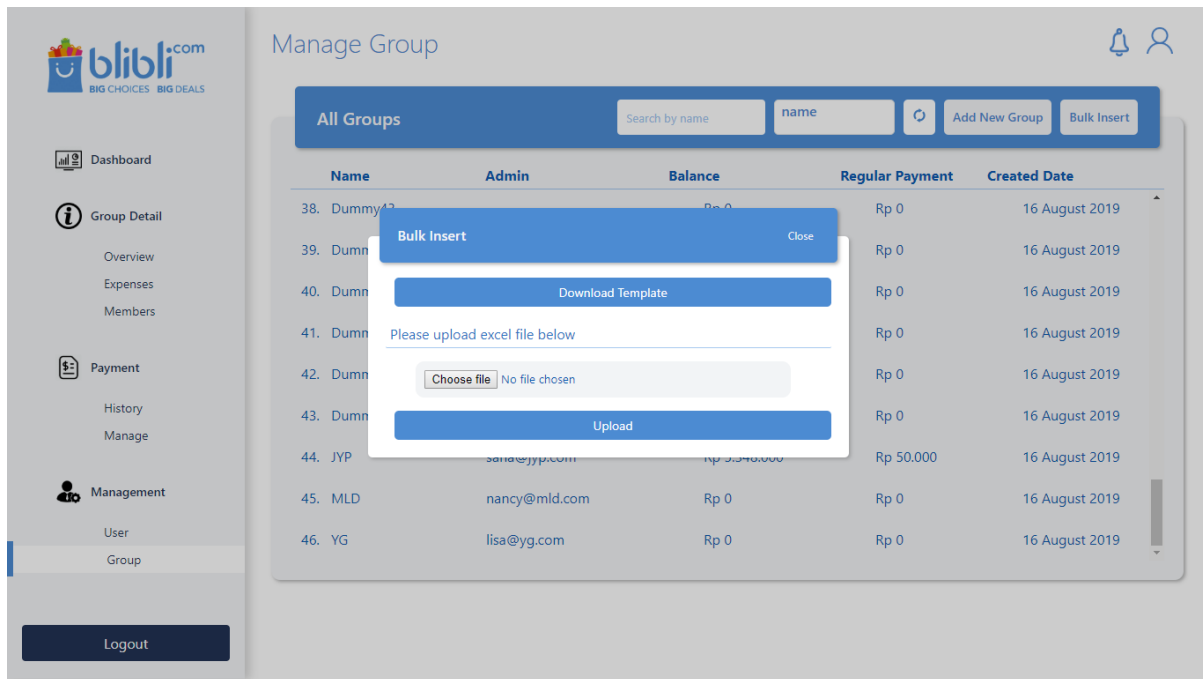
Name	Regular Payment	Created Date
38. Dumn	Rp 0	16 August 2019
39. Dumn	Rp 0	16 August 2019
40. Dumn	Rp 0	16 August 2019
41. Dumn	Rp 0	16 August 2019
42. Dumn	Rp 0	16 August 2019
43. Dumn	Rp 0	16 August 2019
44. JYP	Rp 50.000	16 August 2019
45. MLD	Rp 0	16 August 2019
46. YG	Rp 0	16 August 2019

Add New Group

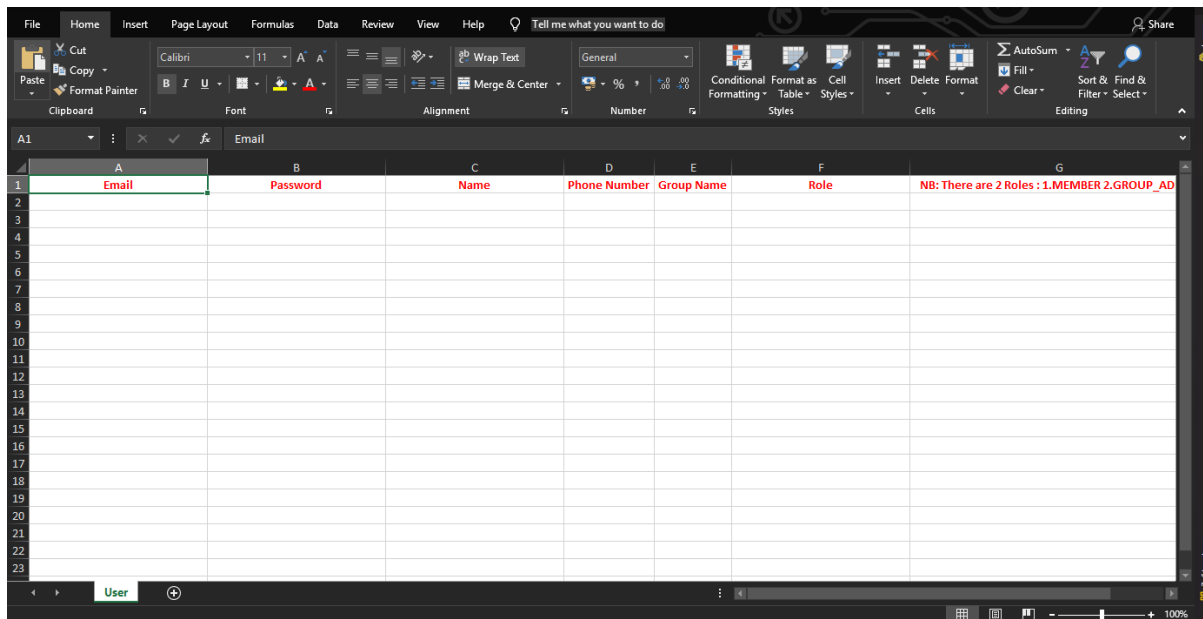
The screenshot shows the 'Manage Group' interface with the same sidebar as the previous image. The main content area displays the 'Add New Group' modal, which includes fields for Group Name, Group Admin, Group Bank Account, Group Current Period, Regular Payment, Balance, and Used Balance. The background table is the same as in the previous image.

Name	Regular Payment	Created Date
38. Dumn	Rp 0	16 August 2019
39. Dumn	Rp 0	16 August 2019
40. Dumn	Rp 0	16 August 2019
41. Dumn	Rp 0	16 August 2019
42. Dumn	Rp 0	16 August 2019
43. Dumn	Rp 0	16 August 2019
44. JYP	Rp 50.000	16 August 2019
45. MLD	Rp 0	16 August 2019
46. YG	Rp 0	16 August 2019

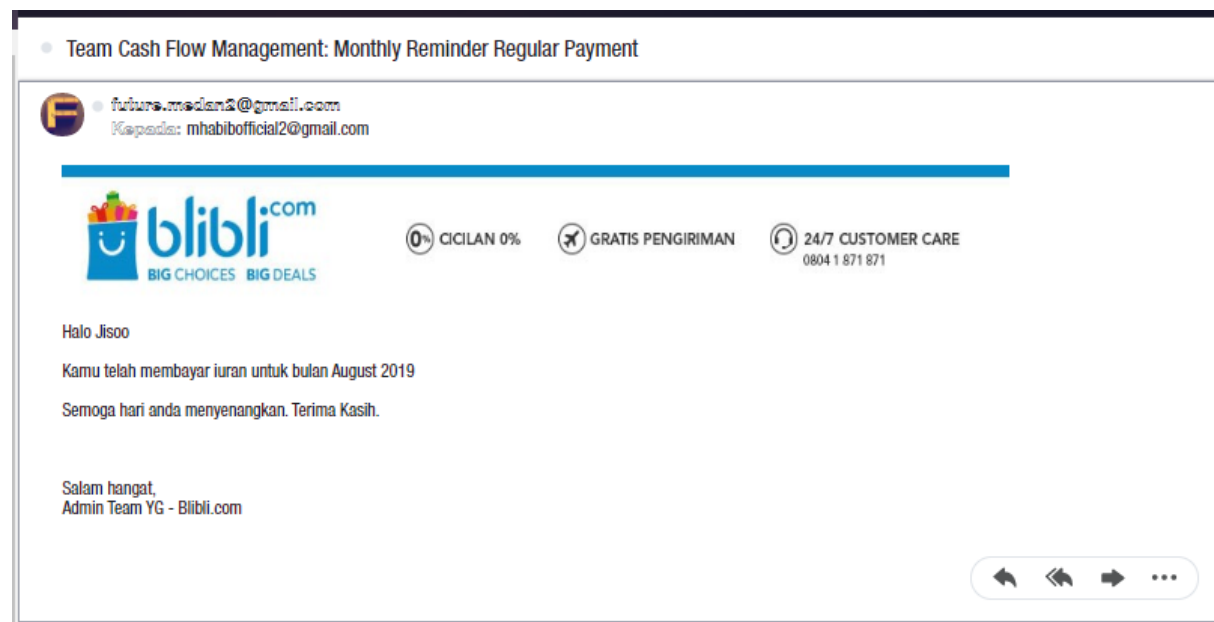
Add Group by Bulk Insert



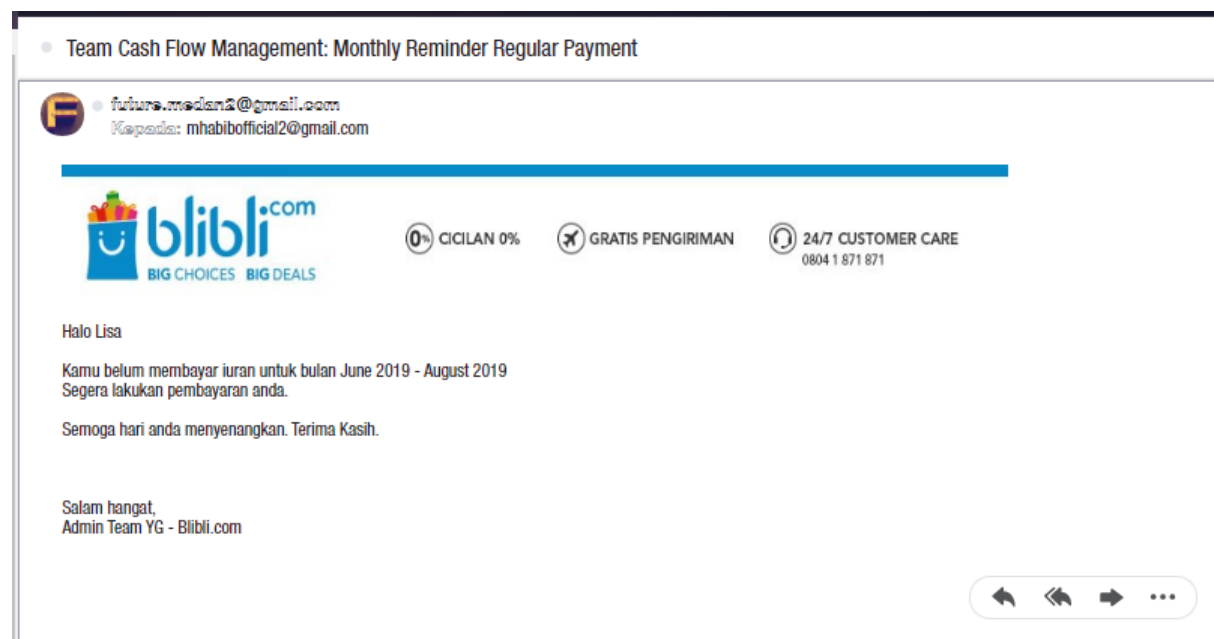
Excel Template Bulk Insert



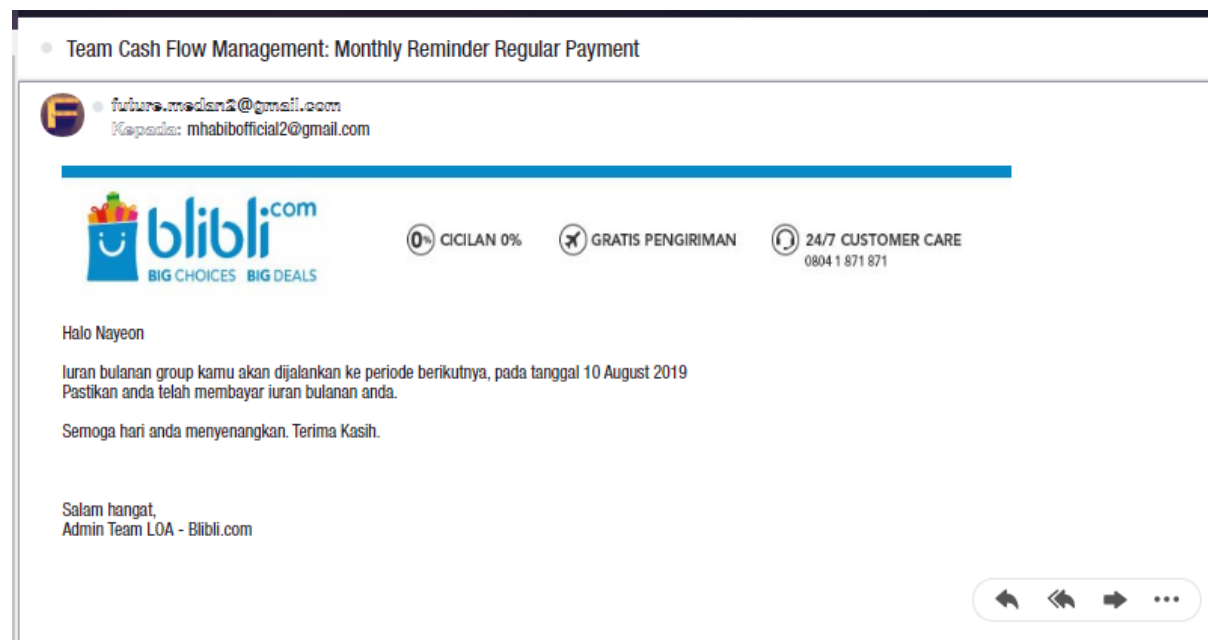
Email Telah Membayar Iuran



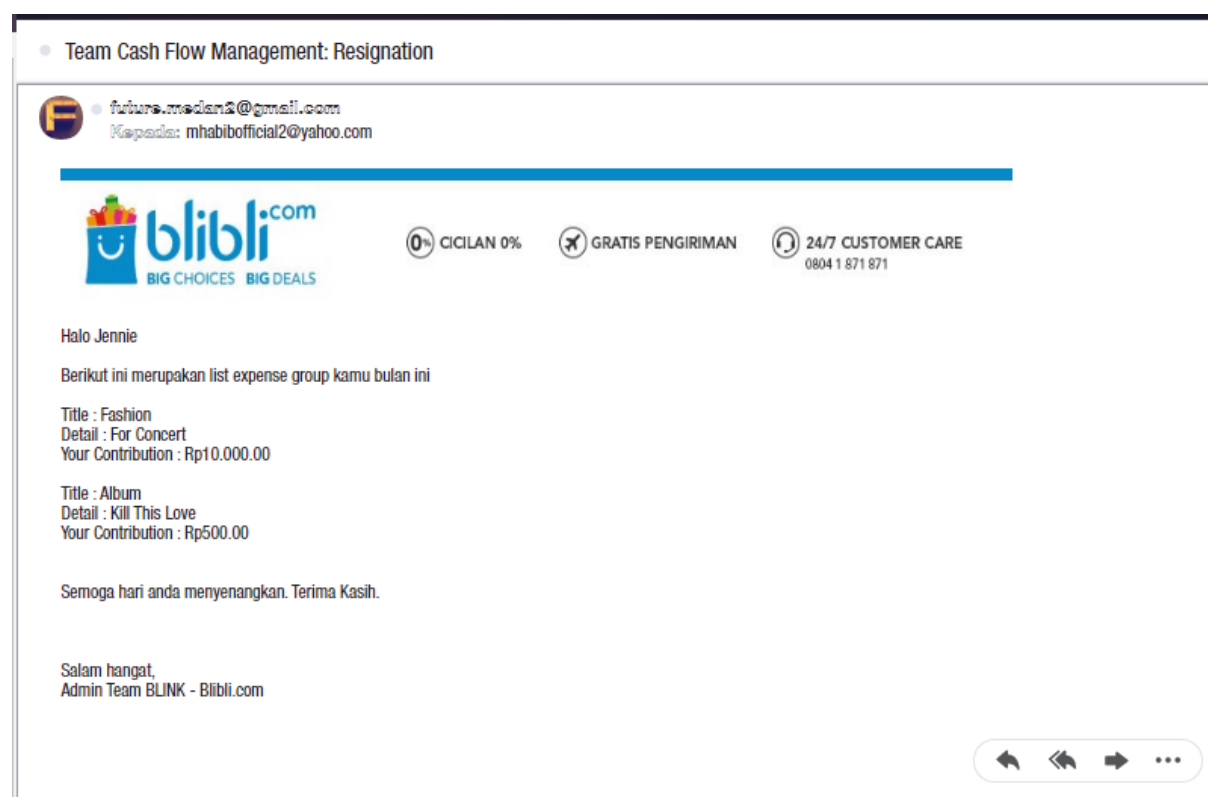
Email Belum Membayar Iuran



Email Reminder Pembayaran Bulanan



Email Detail Pengeluaran Bulanan



Email Resign User

• Team Cash Flow Management: Resignation



future.medan@gmail.com <future.medan@gmail.com>
Kepada: mhabibofficial2@gmail.com



0% CICILAN 0%

GRATIS PENGIRIMAN

24/7 CUSTOMER CARE
0804 1 871 871

Halo Nancy

Kamu Baru Saja Meninggalkan Group Dummy12

Berikut ini merupakan list penggunaan dana kamu

Title : Invest
Detail : investment to x company
Your Contribution : Rp124.000.000,00

Kamu telah membayar iuran group sebanyak 500x

Jumlah dana yang akan dikembalikan kepadamu ialah senilai : Rp126.000.000,00
Harap Hubungi Admin Group Untuk Prosedur Pengambilan Uang Kembali.

Semoga hari anda menyenangkan. Terima Kasih.

Salam hangat,
Admin Team Dummy12 - Blibli.com



API Specifications

POST /auth/refreshToken getRefreshToken

request :

```
{
  "accessToken": "string",
  "refreshToken": "string"
}
```

response : content-type : application/json

Code Description

200	OK Example Value Model { "accessToken": "string" "refreshToken": "string" }
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

POST /auth/signin signIn

request :

```
{
  "email": "string",
  "password": "string"
}
```

response : content-type :application/json

Code Description

200	OK Example Value Model { "groupName": "JYP", "currentUser": { "idUser": "String", "name": "String", "email": "String", "password": "hash String", "phone": "String", "role": "String", "joinDate": long, "leaveDate": long, "active": true, "groupName": "String", "balance": double, "balanceUsed": double, "periodeTertinggal": int, "totalPeriodPayed": int, "imagePath": "string", "imageUrl": "string", "expenseIdContributed": [{ "idExpense": "string", "usedBalance": double }, { "idExpense": "string", "usedBalance": double }] } },
-----	--

```

    "role": "SUPER_ADMIN",
    "imageUrl": "http://localhost:8088/img/user/admin@jyp.com_Picture
(8).png",
    "accessToken":
"eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbkBgXAUy29tIiwiaWF0IjoxNTY2NDgzMDM2fQ
.NQEGMFrcjYI4AVN2rlvcHjImji2btMT4rbijtFLPqDEM021GqWvqvcGoI3KtcSE9_jV1mw8UQL6g
w5owo7YZg1w",
    "groupCreatedDate": 1565957218865,
    "refreshToken": "8e989b10-9c05-469c-88a4-
749c149f04e95d56948906c81e34909c85ea"
}
201 Created
401 Unauthorized
403 Forbidden
404 Not Found

```

```
GET /api/dashboard getData
request :
Name      Description
email     String(query)
response  : content-type:application/json
Code      Description
200       OK
           {
             "adminAccountNumber": "string",
             "adminName": "string",
             "expenseByQuantityPercent": 0,
             "expenseByQuantity": 0,
             "expenseByQuantityBefore": 0,
             "expenseByValue": 0,
             "expenseByValueBefore": 0,
             "expenseByValuePercent": 0,
             "groupBalance": 0,
             "lastPayment": 0,
             "pendingPayment": 0,
             "regularPayment": 0,
             "totalMembers": 0,
             "yourContribution": 0,
             "yourPayment": 0
           }
201       Created
401       Unauthorized
403       Forbidden
404       Not Found
```

```

    [
      {
        "approvedOrRejectedBy": "string",
        "createdDate": 0,
        "detail": "string",
        "groupCurrentPeriod": 0,
        "groupName": "string",
        "idExpense": "string",
        "lastModifiedAt": 0,
        "price": 0,
        "requester": "string",
        "status": true,
        "title": "string",
        "userContributed": [
          {
            "email": "string",
            "imageUrl": "string"
          }
        ]
      }
    ]
  ]
}
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

POST /api/expense createExpense

request :

Name Description

```

expense{
  "approvedOrRejectedBy": "string",
  "createdDate": 0,
  "detail": "string",
  "groupCurrentPeriod": 0,
  "groupName": "string",
  "idExpense": "string",
  "lastModifiedAt": 0,
  "price": 0,
  "requester": "string",
  "status": true,
  "title": "string",
  "userContributed": [
    {
      "email": "string",
      "imageUrl": "string"
    }
  ]
}

```

response : content-type:application/json

Code Description

```

200      OK
{
  "approvedOrRejectedBy": "string",
  "createdDate": 0,
  "detail": "string",
  "groupCurrentPeriod": 0,
  "groupName": "string",
  "idExpense": "string",
  "lastModifiedAt": 0,
  "price": 0,
  "requester": "string",
  "status": true,
  "title": "string",
  "userContributed": [
    {

```

```

        "email": "string",
        "imageUrl": "string"
    }
]
}
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

```

GET /api/expense/{id} singleExpense
request :
Name      Description
id         String(Path)
response : content-type:application/json
Code      Description
200        OK
    {
        "approvedOrRejectedBy": "string",
        "createdDate": 0,
        "detail": "string",
        "groupCurrentPeriod": 0,
        "groupName": "string",
        "idExpense": "string",
        "lastModifiedAt": 0,
        "price": 0,
        "requester": "string",
        "status": true,
        "title": "string",
        "userContributed": [
            {
                "email": "string",
                "imageUrl": "string"
            }
        ]
    }
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

```

GET /api/expense/group expenseGroup
request :
Name      Description
email     String(query)
filter    String(query)
page      integer(query)
size      integer(query)

response : content-type:*/*
Code      Description
200        OK
    {
        "content": [
            {
                "approvedOrRejectedBy": "string",
                "createdDate": 0,
                "detail": "string",
                "groupCurrentPeriod": 0,
                "groupName": "string",
                "idExpense": "string",
                "lastModifiedAt": 0,
                "price": 0,
                "requester": "string",
                "status": true,
            }
        ]
    }

```



```

        "title": "string",
        "userContributed": [
            {
                "email": "string",
                "imageUrl": "string"
            }
        ]
    },
    "empty": true,
    "first": true,
    "last": true,
    "number": 0,
    "numberOfElements": 0,
    "pageable": {
        "offset": 0,
        "pageNumber": 0,
        "pageSize": 0,
        "paged": true,
        "sort": {
            "empty": true,
            "sorted": true,
            "unsorted": true
        },
        "unpaged": true
    },
    "size": 0,
    "sort": {
        "empty": true,
        "sorted": true,
        "unsorted": true
    },
    "totalElements": 0,
    "totalPages": 0
}
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

```

GET /api/expense/last getLastExpense
request :
response : content-type:application/json
Code      Description
200        OK
{
    "approvedOrRejectedBy": "string",
    "createdDate": 0,
    "detail": "string",
    "groupCurrentPeriod": 0,
    "groupName": "string",
    "idExpense": "string",
    "lastModifiedAt": 0,
    "price": 0,
    "requester": "string",
    "status": true,
    "title": "string",
    "userContributed": [
        {
            "email": "string",
            "imageUrl": "string"
        }
    ]
}
201      Created
401      Unauthorized

```

403	Forbidden
404	Not Found

PUT /api/expense/managementExpense managementExpense

request : content-type:application/json

Name	Description
------	-------------

```

expeneRequest {
    "id": "string",
    "status": true
}

```

response : */*

Code	Description
------	-------------

200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

GET /api/expense/search searchExpense

request :

Name	Description
------	-------------

page	integer(query)
------	----------------

query	string(query)
-------	---------------

size	integer(query)
------	----------------

response : */*

Code	Description
------	-------------

200	OK
-----	----

```

{
  "content": [
    {
      "approvedOrRejectedBy": "string",
      "createdDate": 0,
      "detail": "string",
      "groupCurrentPeriod": 0,
      "groupName": "string",
      "idExpense": "string",
      "lastModifiedAt": 0,
      "price": 0,
      "requester": "string",
      "status": true,
      "title": "string",
      "userContributed": [
        {
          "email": "string",
          "imageUrl": "string"
        }
      ]
    }
  ],
  "empty": true,
  "first": true,
  "last": true,
  "number": 0,
  "numberOfElements": 0,
  "pageable": {
    "offset": 0,
    "pageNumber": 0,
    "pageSize": 0,
    "paged": true,
    "sort": {
      "empty": true,
      "sorted": true,
      "unsorted": true
    },
    "unpaged": true
  }
}

```

```

    },
    "size": 0,
    "sort": {
        "empty": true,
        "sorted": true,
        "unsorted": true
    },
    "totalElements": 0,
    "totalPages": 0
}
201 Created
401 Unauthorized
403 Forbidden
404 Not Found

```

GET /api/file downloadTemplateExcelFile

request:

response : */*

Code Description

```

200 OK
{
  "description": "string",
  "file": {
    "absolute": true,
    "absolutePath": "string",
    "canonicalPath": "string",
    "directory": true,
    "executable": true,
    "file": true,
    "freeSpace": 0,
    "hidden": true,
    "lastModified": 0,
    "name": "string",
    "parent": "string",
    "path": "string",
    "readable": true,
    "totalSpace": 0,
    "usableSpace": 0,
    "writable": true
  },
  "filename": "string",
  "inputStream": {},
  "open": true,
  "readable": true,
  "uri": {
    "absolute": true,
    "authority": "string",
    "fragment": "string",
    "host": "string",
    "opaque": true,
    "path": "string",
    "port": 0,
    "query": "string",
    "rawAuthority": "string",
    "rawFragment": "string",
    "rawPath": "string",
    "rawQuery": "string",
    "rawSchemeSpecificPart": "string",
    "rawUserInfo": "string",
    "scheme": "string",
    "schemeSpecificPart": "string",
    "userInfo": "string"
  },
  "url": {
    "authority": "string",
    "content": {},

```

```

        "defaultPort": 0,
        "deserializedFields": {},
        "file": "string",
        "host": "string",
        "path": "string",
        "port": 0,
        "protocol": "string",
        "query": "string",
        "ref": "string",
        "serializedHashCode": 0,
        "userInfo": "string"
    }
}
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

POST api/file uploadExcelFile

request :

Name Description

file file(formData)

response : /*

Code Description

```

200      OK
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

GET /api/group loadAllGroup

request :

response : /*

Code Description

```

200      OK
      [
        {
          "active": true,
          "balanceUsed": 0,
          "bankAccountName": "string",
          "bankAccountNumber": "string",
          "closedDate": 0,
          "createdDate": 0,
          "currentPeriod": 0,
          "groupAdmin": "string",
          "groupBalance": 0,
          "idGroup": "string",
          "lastModifiedAt": 0,
          "name": "string",
          "regularPayment": 0
        }
      ]
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

POST /api/group createGroup

request :

Name Description

```

group {
  "active": true,
  "balanceUsed": 0,
  "bankAccountName": "string",
  "bankAccountNumber": "string",

```

```

        "closedDate": 0,
        "createdDate": 0,
        "currentPeriod": 0,
        "groupAdmin": "string",
        "groupBalance": 0,
        "idGroup": "string",
        "lastModifiedAt": 0,
        "name": "string",
        "regularPayment": 0
    }
response : */*
Code    Description
200      OK
        {
            "active": true,
            "balanceUsed": 0,
            "bankAccountName": "string",
            "bankAccountNumber": "string",
            "closedDate": 0,
            "createdDate": 0,
            "currentPeriod": 0,
            "groupAdmin": "string",
            "groupBalance": 0,
            "idGroup": "string",
            "lastModifiedAt": 0,
            "name": "string",
            "regularPayment": 0
        }
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

```

GET /api/group/{groupName}/members membersGroup
request :
Name    Description
group   String(path)
response : */*
Code    Description
200      OK
        [
            {
                "active": true,
                "balanceUsed": 0,
                "bankAccountName": "string",
                "bankAccountNumber": "string",
                "closedDate": 0,
                "createdDate": 0,
                "currentPeriod": 0,
                "groupAdmin": "string",
                "groupBalance": 0,
                "idGroup": "string",
                "lastModifiedAt": 0,
                "name": "string",
                "regularPayment": 0
            }
        ]
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

```

GET /api/group/{id} getGroupById
request :
Name    Description

```

```

id          String(path)
response : */*
Code    Description
200      OK
        {
            "idGroup": "string",
            "name": "string",
            "groupAdmin": "string",
            "regularPayment": 0.0,
            "createdDate": long,
            "lastModifiedAt": long,
            "closedDate": long,
            "groupBalance": 0.0,
            "balanceUsed": 0.0,
            "bankAccountNumber": "string",
            "bankAccountName": "string",
            "active": true,
            "currentPeriod": 1
        }
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

PUT /api/group/{id} updateGroup

request :

Name Description

```

group {
    "active": true,
    "balanceUsed": 0,
    "bankAccountName": "string",
    "bankAccountNumber": "string",
    "closedDate": 0,
    "createdDate": 0,
    "currentPeriod": 0,
    "groupAdmin": "string",
    "groupBalance": 0,
    "idGroup": "string",
    "lastModifiedAt": 0,
    "name": "string",
    "regularPayment": 0
}

```

response : */*

Code Description

```

200      OK
        {
            "active": true,
            "balanceUsed": 0,
            "bankAccountName": "string",
            "bankAccountNumber": "string",
            "closedDate": 0,
            "createdDate": 0,
            "currentPeriod": 0,
            "groupAdmin": "string",
            "groupBalance": 0,
            "idGroup": "string",
            "lastModifiedAt": 0,
            "name": "string",
            "regularPayment": 0
        }
201      Created
401      Unauthorized
403      Forbidden

```

DELETE /api/group/{id} disbandGroup

request :

Name Description

id String(path)

response : /**

Code Description

200 OK

201 Created

401 Unauthorized

403 Forbidden

404 Not Found

GET /api/group/members myGroupMembers

request :

response : /**

Code Description

200 OK

```
[
  {
    "active": true,
    "balanceUsed": 0,
    "bankAccountName": "string",
    "bankAccountNumber": "string",
    "closedDate": 0,
    "createdDate": 0,
    "currentPeriod": 0,
    "groupAdmin": "string",
    "groupBalance": 0,
    "idGroup": "string",
    "lastModifiedAt": 0,
    "name": "string",
    "regularPayment": 0
  }
]
```

201 Created

401 Unauthorized

403 Forbidden

404 Not Found

GET /api/group/search searchAllGroup

request :

Name Description

page integer(query)

query string(query)

size integer(query)

response : /**

Code Description

200 OK

```
{
  "content": [
    {
      "active": true,
      "balanceUsed": 0,
      "bankAccountName": "string",
      "bankAccountNumber": "string",
      "closedDate": 0,
      "createdDate": 0,
      "currentPeriod": 0,
      "groupAdmin": "string",
      "groupBalance": 0,
      "idGroup": "string",
      "lastModifiedAt": 0,
    }
  ]
}
```

```

        "name": "string",
        "regularPayment": 0
    }
],
"empty": true,
"first": true,
"last": true,
"number": 0,
"numberOfElements": 0,
"pageable": {
    "offset": 0,
    "pageNumber": 0,
    "pageSize": 0,
    "paged": true,
    "sort": {
        "empty": true,
        "sorted": true,
        "unsorted": true
    },
    "unpaged": true
},
"size": 0,
"sort": {
    "empty": true,
    "sorted": true,
    "unsorted": true
},
"totalElements": 0,
"totalPages": 0
}
201      Created
401      Unauthorized
403      Forbidden
404      Not Found

```

GET /img/{imageName} getOldImage

request :

Name	Description
imageName	String(path)

response : /**

Code	Description
200	OK bytes
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

GET /img/{type}/{imageName} getOldImage

request :

Name	Description
type	String(path)
imageName	String(path)

response : /**

Code	Description
200	OK bytes
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

GET /notification/{type} streamPersonalNotification

request :

Name	Description
------	-------------


```

ref      String(query)
type     string(path)

response : text/event-stream
Code      Description
200       OK
          {
            _id: "string"
            email:"string"
            groupName:"string"
            message:"string"
            isRead:true
            timestamp:long
            isReadAt:long
            type:"string"
          }
201       Created
401       Unauthorized
403       Forbidden
404       Not Found

```

PUT /notification/{id} updateNotification

request :

```

Name      Description
id         string(path)

```

response : application/json

```

Code      Description
200       OK
          {
            _id: "string"
            email:"string"
            groupName:"string"
            message:"string"
            isRead:true
            timestamp:long
            isReadAt:long
            type:"string"
          }
201       Created
401       Unauthorized
403       Forbidden
404       Not Found

```

PUT /notification setNotificationIsRead

request :

```

Name      Description
ref       ref string(query)

```

response: content-type:application/json

```

Code      Description
200       OK
201       Created
401       Unauthorized
403       Forbidden
404       Not Found

```

DELETE /notification clearAllNotification

request :

```

Name      Description
ref       ref string(query)

```

response: content-type:application/json

```

Code      Description
200       OK

```

201	Created
401	Unauthorized
403	Forbidden
404	Not Found

GET /api/user/search loadAll
request :

response : content-type : application/json

Code	Description
------	-------------

200	OK
-----	----

Example Value Model

```
[
  {
    idUser": "String",
    "name": "String",
    "email": "String",
    "password": "hash String",
    "phone": "String",
    "role": "String",
    "joinDate": long,
    "leaveDate": long,
    "active": true,
    "groupName": "String",
    "balance": double,
    "balanceUsed": double,
    "periodeTertinggal": int,
    "totalPeriodPayed": int,
    "imagePath": "string",
    "imageUrl": "string",
    "expenseIdContributed": [
      {
        "idExpense": "string",
        "usedBalance": double
      },
      {
        "idExpense": "string",
        "usedBalance": double
      }
    ]
  }
]
```

401	Unauthorized
403	Forbidden
404	Not Found

POST /api/user create
request :

Name	Description
file	file (formData)
user	file (formData)

response : content-type : application/json

Code	Description
------	-------------

200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

GET /api/user/{id} getUserById

```

request :
Name      Description
id         string(path)

response : content-type : application/json
Code      Description
200       OK
          Example Value Model
          {
              "idUser": "String",
              "name": "String",
              "email": "String",
              "password": "hash String",
              "phone": "String",
              "role": "String",
              "joinDate": long,
              "leaveDate": long,
              "active": true,
              "groupName": "String",
              "balance": double,
              "balanceUsed": double,
              "periodeTertinggal": int,
              "totalPeriodPayed": int,
              "imagePath": "string",
              "imageUrl": "string",
              "expenseIdContributed": [
                  {
                      "idExpense": "string",
                      "usedBalance": double
                  },
                  {
                      "idExpense": "string",
                      "usedBalance": double
                  }
              ]
          }
401       Unauthorized
403       Forbidden
404       Not Found

```

```

PUT /api/user/{id} update
request :
Name      Description
file      file (formData)
id         string (path)
user      user (formData)

response : content-type : application/json
Code      Description
200       OK
401       Unauthorized
403       Forbidden
404       Not Found

```

```

DELETE /api/user/{id} delete
request :
Name      Description
id         string id (path)

response : content-type : application/json
Code      Description
200       OK

```

401	Unauthorized
403	Forbidden
404	Not Found

GET /api/user/email getUser

request :

Name	Description
------	-------------

email	string email(query)
-------	---------------------

response : content-type : application/json

Code	Description
------	-------------

200	OK
-----	----

Example Value Model

```
{
  "active": true,
  "balance": 0,
  "balanceUsed": 0,
  "email": "string",
  "expenseIdContributed": [
    {
      "idExpense": "string",
      "usedBalance": 0
    }
  ],
  "groupName": "string",
  "idUser": "string",
  "imagePath": "string",
  "imageUrl": "string",
  "joinDate": 0,
  "leaveDate": 0,
  "name": "string",
  "password": "string",
  "periodeTertinggal": 0,
  "phone": "string",
  "role": "string",
  "totalPeriodPayed": 0
}
```

401	Unauthorized
403	Forbidden
404	Not Found

PUT /api/user/managementUser/{id} update

request :

Name	Description
------	-------------

id	id string (path)
----	------------------

newGroupAdmin	newGroupAdmin string (query)
---------------	------------------------------

user	user (body)
------	-------------

```
{
  "active": true,
  "balance": 0,
  "balanceUsed": 0,
  "email": "string",
  "expenseIdContributed": [
    {
      "idExpense": "string",
      "usedBalance": 0
    }
  ],
  "groupName": "string",
  "idUser": "string",
  "imagePath": "string",
  "imageUrl": "string",
  "joinDate": 0,
  "leaveDate": 0,
  "name": "string",

```

```

        "password": "string",
        "periodeTertinggal": 0,
        "phone": "string",
        "role": "string",
        "totalPeriodPayed": 0
    }

```

response : content-type : application/json

Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

```

    Example Value Model
    {
        "message":"string"
    }

```

GET /api/user/search searchAllUser

request :

Name	Description
membersOnly	membersOnly boolean(query) Default value : false
page	page integer(\$int32)(query) Default value : 0
query	query string (query)
size	size integer(\$int32)(query) Default value : 10

response : content-type : */*

Code	Description
200	OK

```

    Example Value Model
    {
        "content": [
            {
                "active": true,
                "balance": 0,
                "balanceUsed": 0,
                "email": "string",
                "expenseIdContributed": [
                    {
                        "idExpense": "string",
                        "usedBalance": 0
                    }
                ],
                "groupName": "string",
                "idUser": "string",
                "imagePath": "string",
                "imageUrl": "string",
                "joinDate": 0,
                "leaveDate": 0,
                "name": "string",
                "password": "string",
                "periodeTertinggal": 0,
                "phone": "string",
                "role": "string",
                "totalPeriodPayed": 0
            }
        ],
        "empty": true,
        "first": true,
        "last": true,
        "number": 0,
        "numberOfElements": 0,
    }

```

```

"pageable": {
  "offset": 0,
  "pageNumber": 0,
  "pageSize": 0,
  "paged": true,
  "sort": {
    "empty": true,
    "sorted": true,
    "unsorted": true
  },
  "unpaged": true
},
"size": 0,
"sort": {
  "empty": true,
  "sorted": true,
  "unsorted": true
},
"totalElements": 0,
"totalPages": 0
}

```

401	Unauthorized
403	Forbidden
404	Not Found

POST /api/payment create

request :

Name	Description
file	file (formData)
payment	payment(formData)

response : content-type : application/json

Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

GET /api/payment/{id} managementPayment

request :

Name	Description
id	id string (path)

response : content-type:*/*

Code	Description
200	OK

Example Value Model

```

{
  "idPayment": "string",
  "email": "string",
  "groupName": "string",
  "emailMemberLain": "string",
  "namaPengirim": "string",
  "periode": 0,
  "nomorRekeningPengirim": "string",
  "paymentDate": long,
  "lastModifiedAt": long,
  "price": 0.0,
  "isChecked": true,
  "isRejected": false,
  "imagePath": "string",
  "imageUrl": "string"
}

```

	}
401	Unauthorized
403	Forbidden
404	Not Found

PUT /api/payment/{id} update

request :

Name	Description
file	file(formData)
id	id string(path)
payment	payment(formData)

response : content-type: application/json

Code	Description
------	-------------

200	OK
401	Unauthorized
403	Forbidden
404	Not Found

PUT /api/payment/managementPayment managementPayment

request :

Name	Description
thisPayment	thisPayment(body) Example Value Model { "id": "string", "status": true }

response : content-type:*/*

Code	Description
------	-------------

200	OK Example Value Model { "idPayment": "string", "email": "string", "groupName": "string", "emailMemberLain": "string", "namaPengirim": "string", "periode": 0, "nomorRekeningPengirim": "string", "paymentDate": long, "lastModifiedAt": long, "price": 0.0, "isChecked": true, "isRejected": false, "imagePath": "string", "imageUrl": "string" }
-----	---

401	Unauthorized
403	Forbidden
404	Not Found

GET /api/payment/search searchPayment

request:

Name	Description
page	page integer(\$int32)(query) Default value : 0
query	query string(query)
size	size integer(\$int32)(query) Default value : 10

response : content-type:*/*

Code Description

200	OK Example Value Model { "content": [{ "email": "string", "emailMemberLain": "string", "groupName": "string", "idPayment": "string", "imagePath": "string", "imageUrl": "string", "isChecked": true, "isRejected": true, "lastModifiedAt": 0, "namaPengirim": "string", "nomorRekeningPengirim": "string", "paymentDate": 0, "periode": 0, "price": 0 }], "empty": true, "first": true, "last": true, "number": 0, "numberOfElements": 0, "pageable": { "offset": 0, "pageNumber": 0, "pageSize": 0, "paged": true, "sort": { "empty": true, "sorted": true, "unsorted": true }, "unpaged": true }, "size": 0, "sort": { "empty": true, "sorted": true, "unsorted": true }, "totalElements": 0, "totalPages": 0 }
401	Unauthorized
403	Forbidden
404	Not Found

GET /api/overview getData

request :

Name Description

email email string(query)

response : content-type:*/*

Code Description

200	OK Example Value Model { "groupBalance": 0, "latestExpense": [{
-----	---


```

    "approvedOrRejectedBy": "string",
    "createdDate": 0,
    "detail": "string",
    "groupCurrentPeriod": 0,
    "groupName": "string",
    "idExpense": "string",
    "lastModifiedAt": 0,
    "price": 0,
    "requester": "string",
    "status": true,
    "title": "string",
    "userContributed": [
      {
        "email": "string",
        "imageUrl": "string"
      }
    ]
  },
  "latestExpenseDate": 0,
  "latestJoinDate": 0,
  "paymentPaidThisMonth": 0,
  "percentageTotalCashUsed": "string",
  "totalMembers": 0
}

```

401	Unauthorized
403	Forbidden
404	Notound
