

GYM WEBSITE

Github Repo And Members

Repo

<https://github.com/Hir0Yat0/database-project-2024>

Members

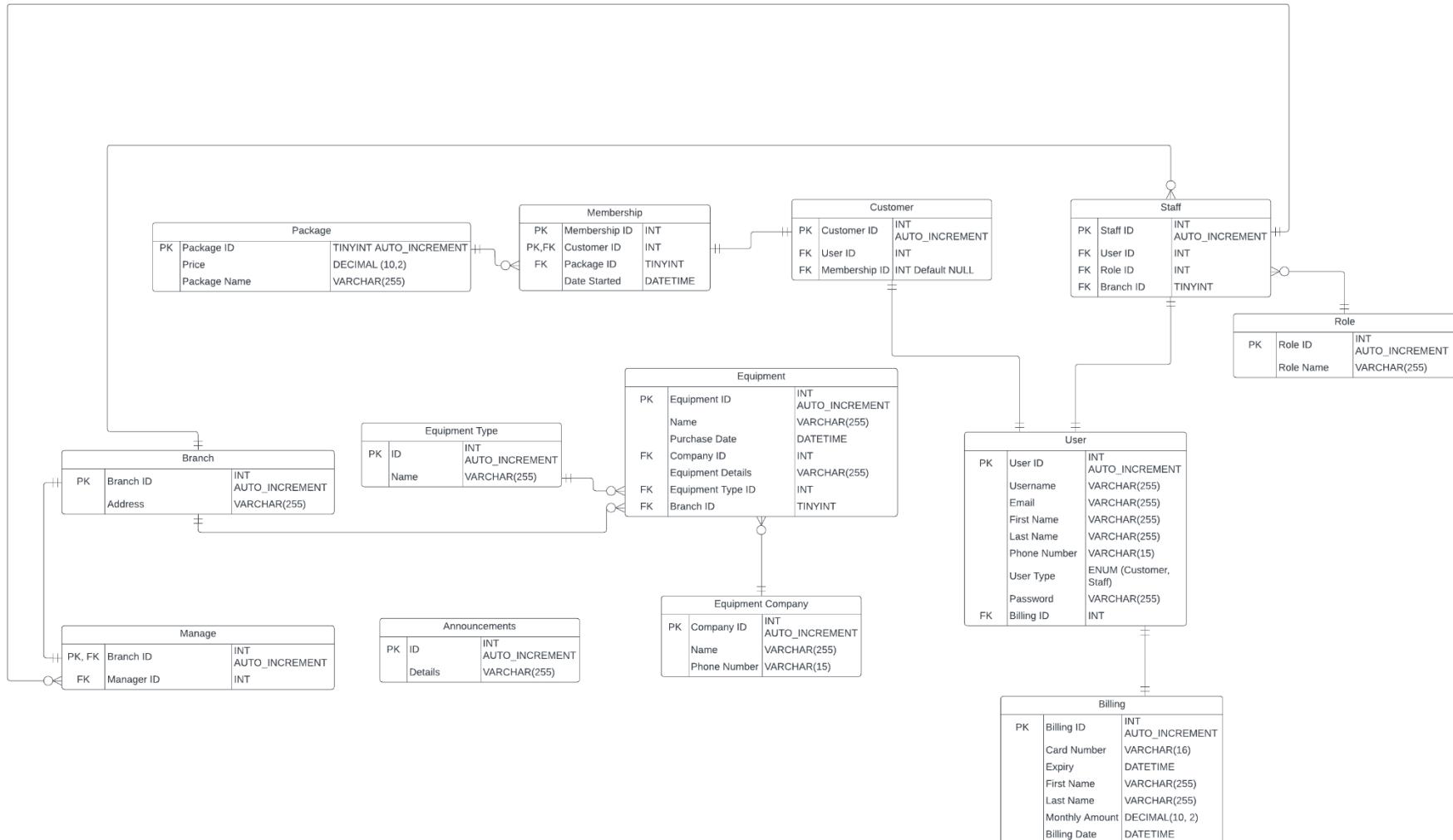
anishkhanijaur: Anish Khanijaur 6480492

Hir0Yat0: Ratchaphong Nittaya 6481285

ER Diagram

(Please zoom out)

https://lucid.app/lucidchart/fe4850d4-4ee7-49d0-a70b-a031ce96a702/edit?viewport_loc=-2279%2C11559%2C2368%2C1330%2C0_0&invitationId=inv_5df0cd50-8dac-4a0b-a151-183547adacbb



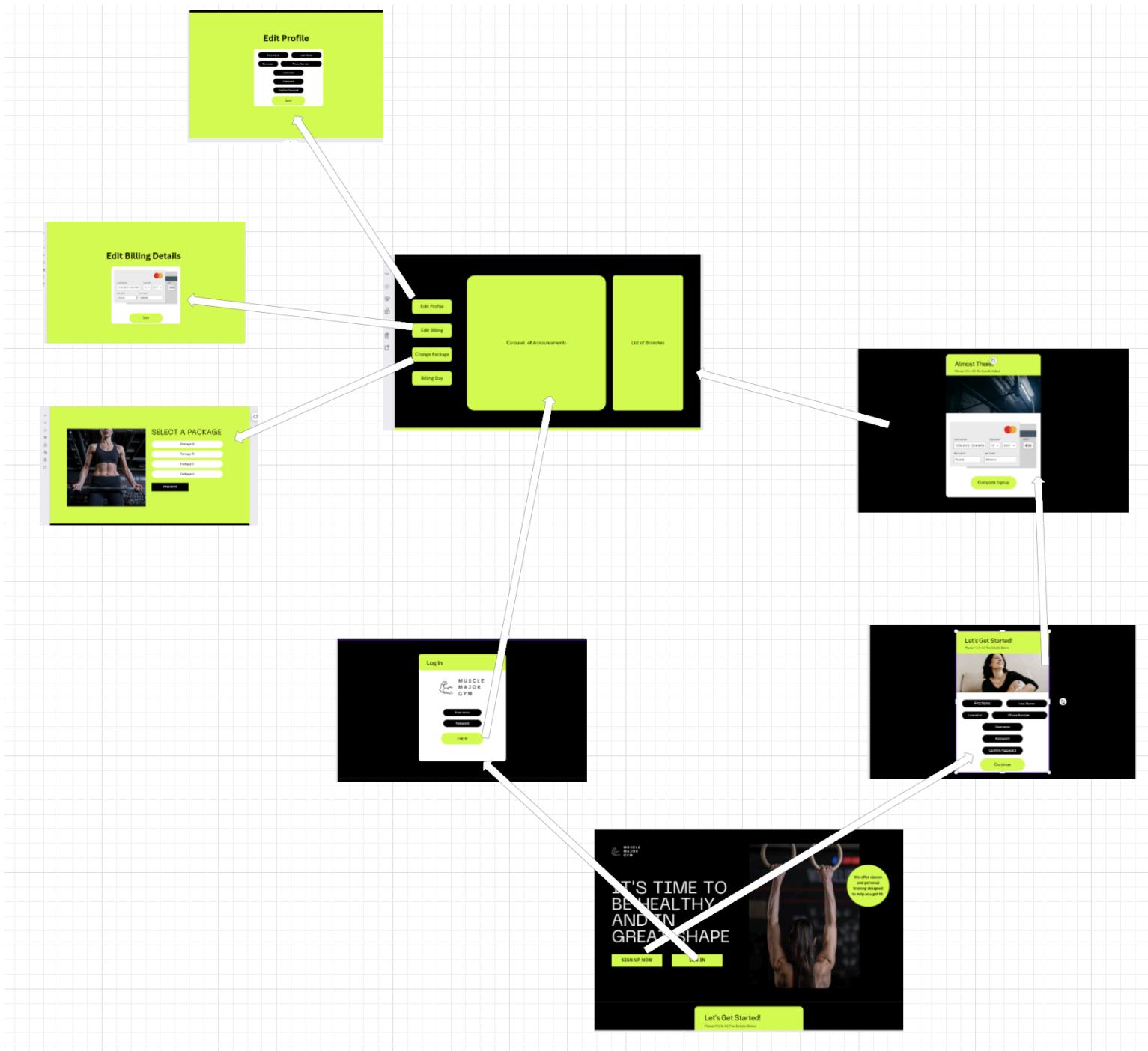
Sitemap

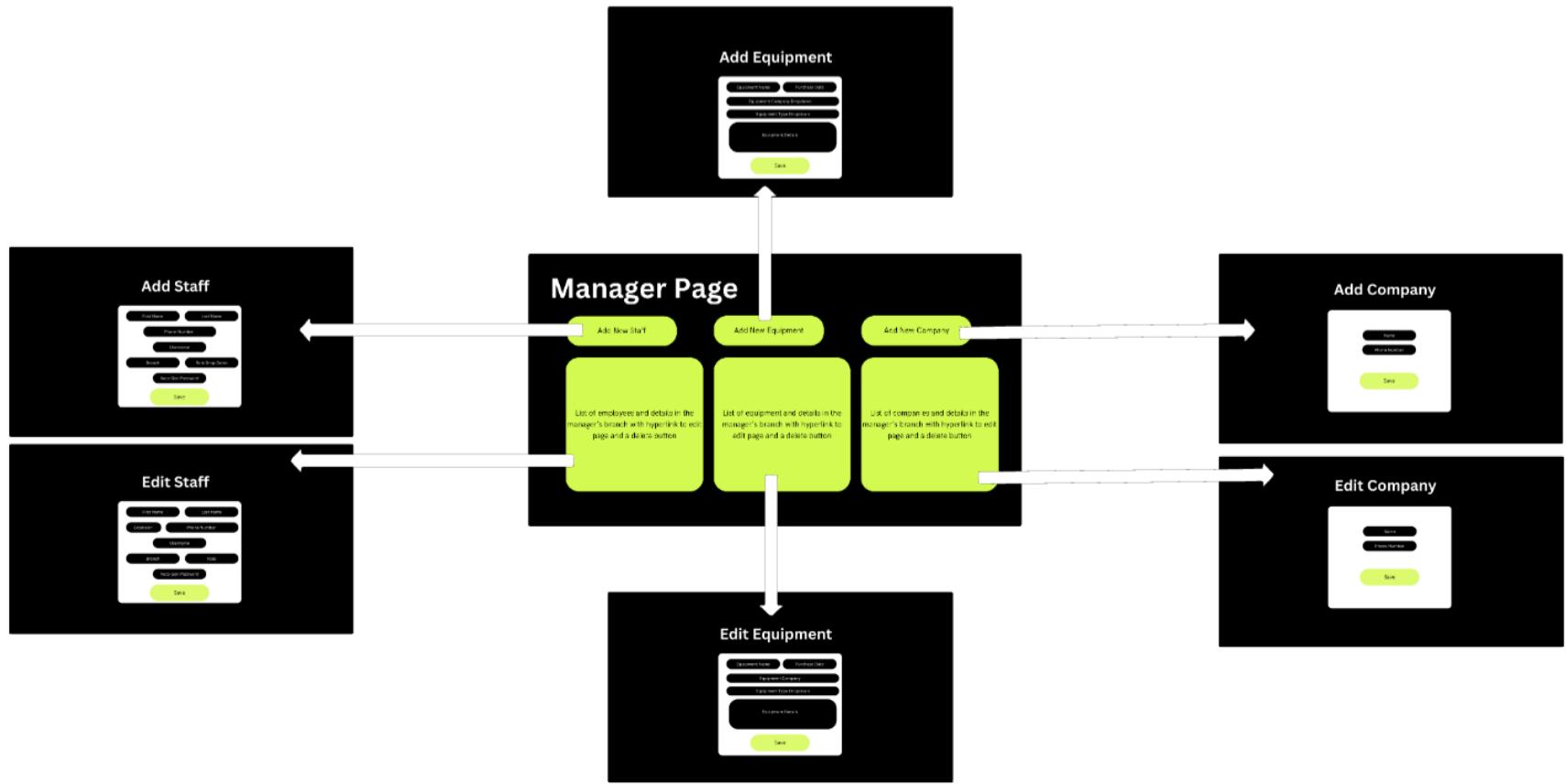
Sitemap:

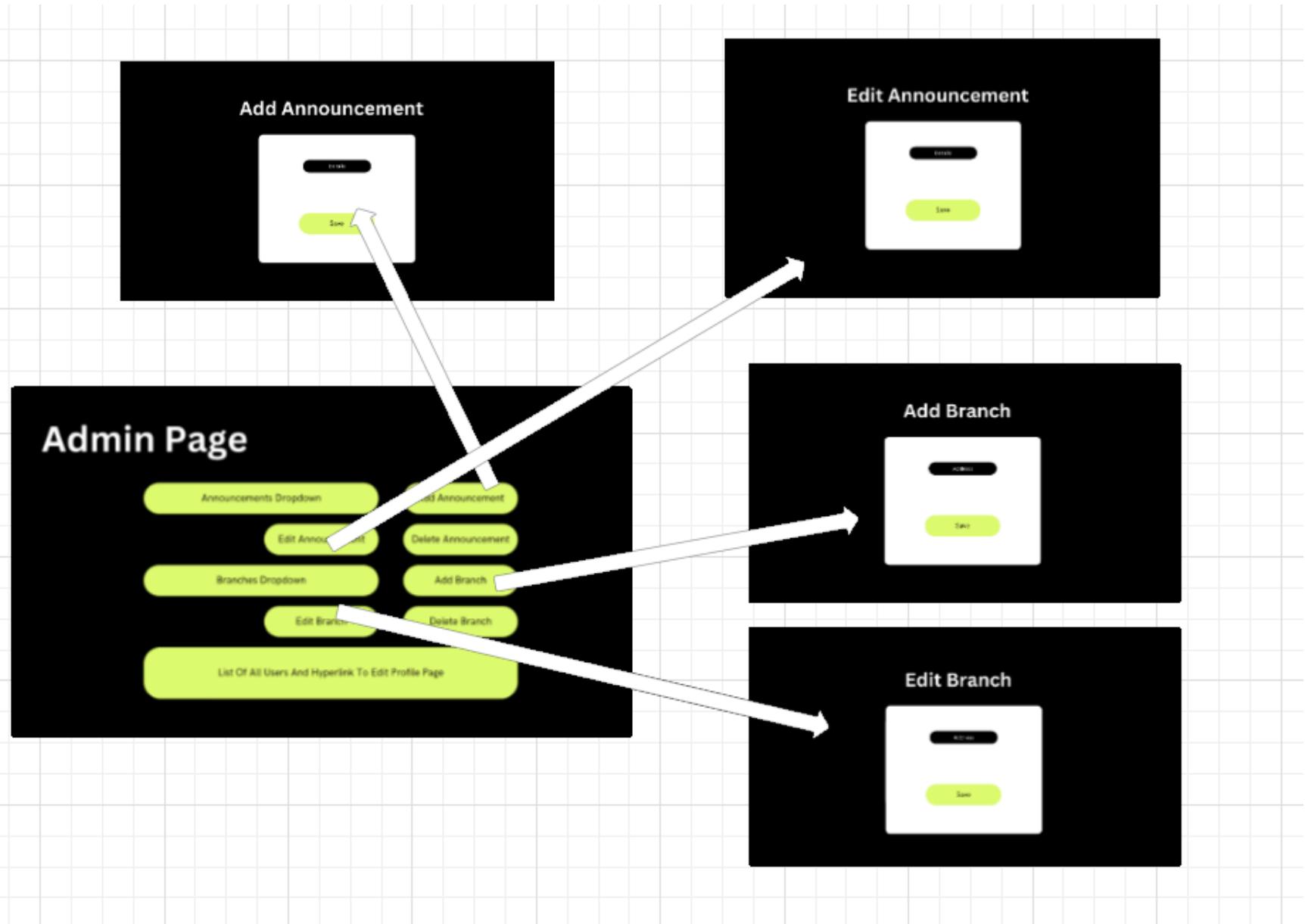
https://lucid.app/lucidchart/324392d1-338e-46fa-ba12-3c5c9b1de77f/edit?viewport_loc=-5169%2C-4946%2C1707%2C800%2C0_0&invitationId=inv_b564fe77-956e-4972-bec2-f1bdea065d73

Full Website Design:

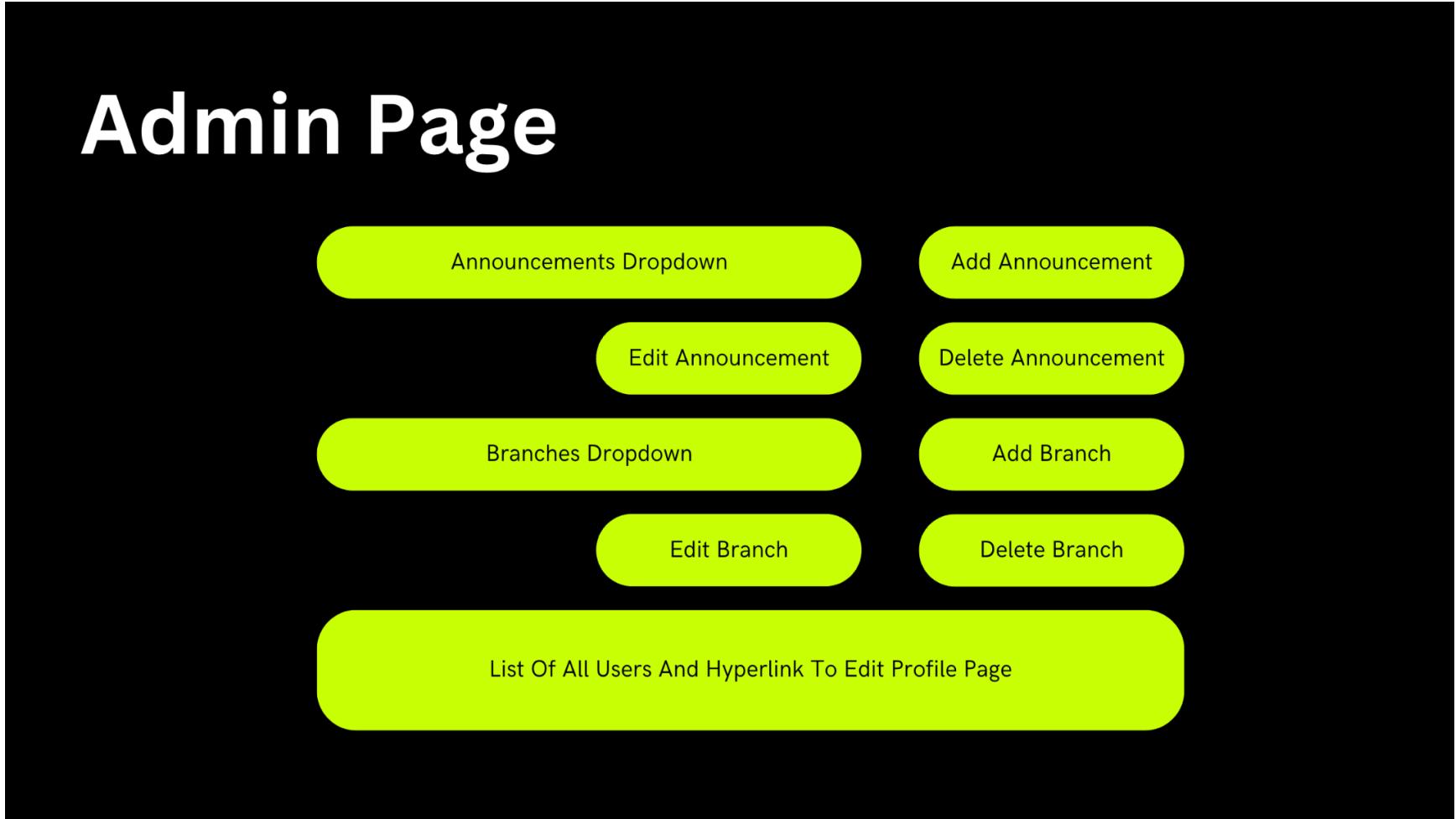
https://www.canva.com/design/DAGAnsFzVFU/vxi-XDDk9Dild0Pio4XN6w/edit?utm_content=DAGAnsFzVFU&utm_campaign=designs_hare&utm_medium=link2&utm_source=sharebutton







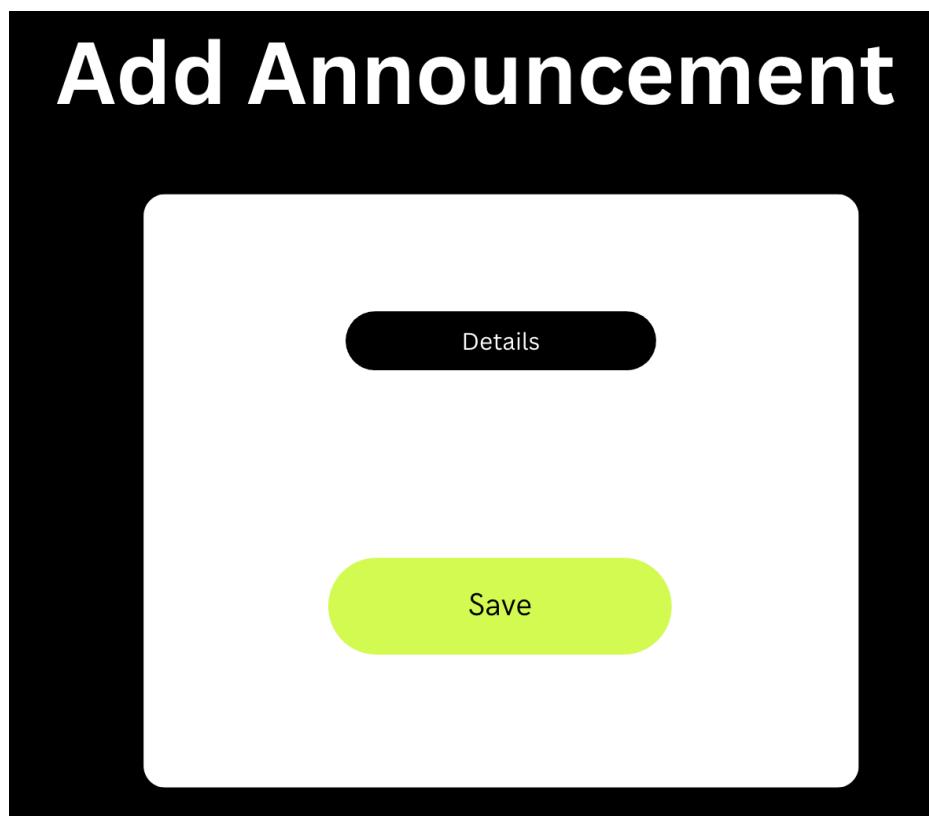
Mock UI



1. Get all announcements dropdown:

□ get_all_announcements	
1	(1, "World has ended")
2	(2, "Hello ajarn")
3	(3, "Hello top")

2. Add announcement:



```

CREATE OR REPLACE PROCEDURE add_announcement(IN details VARCHAR(255), INOUT status_code INT) AS
$$
BEGIN
    INSERT INTO public."Announcements"("Details") VALUES (details);
    COMMIT;
    status_code := 0; -- Assigning 0 to status_code
END;
$$ LANGUAGE plpgsql;

CALL add_announcement( details: 'New announcement' , status_code: 0);

```

Before (Announcement table):

ID	Details
1	World has ended
2	Hello ajarn
3	Hello top

After (Announcement table):

ID	Details
1	World has ended
2	Hello ajarn
3	Hello top
4	New announcement

3. Delete Announcement:

```
CREATE OR REPLACE PROCEDURE delete_announcement(  
    IN announcement_id INT,  
    INOUT status_code INT  
) AS  
$$  
BEGIN  
    DELETE FROM public."Announcements"  
    WHERE "ID" = announcement_id;  
    COMMIT;  
    -- Set status_code to 0 indicating success  
    status_code := 0;  
END;  
$$ LANGUAGE plpgsql;  
  
CALL delete_announcement( announcement_id: 5 , status_code: 0 );
```

Before (Announcement Table):

ID	Details
1	1 World has ended
2	2 Hello ajarn
3	3 Hello top
4	5 New announcement

After (Announcement Table):

ID	Details
1	1 World has ended
2	2 Hello ajarn
3	3 Hello top

4. Edit Announcement:

Edit Announcement

Details

Save

```

CREATE OR REPLACE PROCEDURE edit_announcement(
    IN announcement_id INT,
    IN details VARCHAR(255),
    INOUT status_code INT
) AS
$$
BEGIN
    UPDATE public."Announcements"
        SET "Details" = details
        WHERE "ID" = announcement_id;
    COMMIT;
    -- Set status_code to 0 indicating success
    status_code := 0;
END;
$$ LANGUAGE plpgsql;

CALL edit_announcement( announcement_id: 3, details: 'Updated announcement', status_code: 0);

```

Before (Announcement Table):

	ID	Details
1	1	World has ended
2	2	Hello ajarn
3	3	Hello top

After (Announcement Table):

	ID	Details
1	1	World has ended
2	2	Hello ajarn
3	3	Updated announceme...

5. Branches dropdown to get all branches:

```
CREATE OR REPLACE FUNCTION getAllBranches()
RETURNS SETOF "Branch" AS
$$
    SELECT * FROM "Branch";
$$ LANGUAGE SQL;

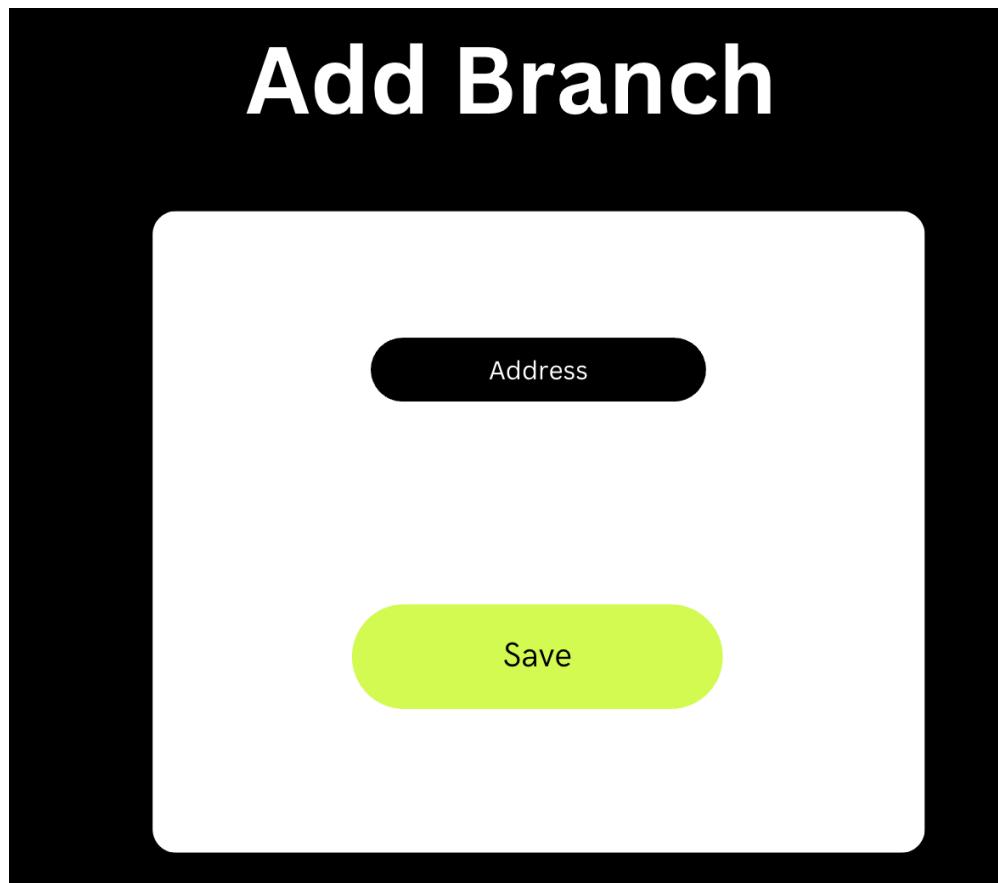
SELECT getAllBranches();
```

Output:

Returns ID for future changes such as editing or deleting and other details

getallbranches	
1	(2,"456 Elm St")
2	(1,"1234 Main St")

6. Add branch:



```

CREATE OR REPLACE PROCEDURE add_branch(
    IN address VARCHAR(255),
    INOUT status_code INT
) AS
$$
BEGIN
    INSERT INTO public."Branch"("Address") VALUES (address);
    COMMIT;
    -- Set status_code to 0 indicating success
    status_code := 0;
END;
$$ LANGUAGE plpgsql;

CALL add_branch( address: 'Test Address', status_code: 0);

```

Before (Branch table):

	Branch ID	Address
1	2	456 Elm St
2	1	1234 Main St

After (Branch table):

	Branch ID	Address
1	2	456 Elm St
2	1	1234 Main St
3	4	Test Address

7. Delete Branch:

```
CREATE OR REPLACE PROCEDURE delete_branch(  
    IN branch_id INT,  
    INOUT status_code INT  
) AS  
$$  
BEGIN  
    -- Delete from Equipment Type table  
    DELETE FROM public."Branch"  
    WHERE "Branch ID" = branch_id;  
    COMMIT;  
    -- Set status_code to 0 indicating success  
    status_code := 0;  
END;  
$$ LANGUAGE plpgsql;  
  
CALL delete_branch(branch_id: 4, status_code: 0);
```

Before (Branch Table):

	Branch ID		Address
1		2	456 Elm St
2		1	1234 Main St
3		4	Test Address

After (Branch Table):

	Branch ID		Address
1		2	456 Elm St
2		1	1234 Main St

8. Edit Branch:

Edit Branch

Address

Save

```
CREATE OR REPLACE PROCEDURE edit_branch(  
    IN branch_id INT,  
    IN address VARCHAR(255),  
    INOUT status_code INT  
) AS  
$$  
BEGIN  
    -- Update Branch table  
    UPDATE public."Branch"  
    SET "Address" = address  
    WHERE "Branch ID" = branch_id;  
    COMMIT;  
  
    -- Set status_code to 0 indicating success  
    status_code := 0;  
END;  
$$ LANGUAGE plpgsql;  
  
CALL edit_branch( branch_id: 1, address: '123 Main St', status_code: 0);
```

Before (Branch Table):

Branch ID	Address
2	456 Elm St
1	1234 Main St

After (Branch Table):

Branch ID	Address
2	456 Elm St
1	123 Main St

Manager Page

Add New Staff

Add New Equipment

Add New Company

List of employees and details in the manager's branch with hyperlink to edit page and a delete button

List of equipment and details in the manager's branch with hyperlink to edit page and a delete button

List of companies and details in the manager's branch with hyperlink to edit page and a delete button

1. Get all employees dropdown:

```

CREATE OR REPLACE FUNCTION getAllEmployeesForBranch("branch id" INT)
RETURNS TABLE("Staff ID" int, "User ID" int, "Role ID" int,
              "Branch ID" int, "Username" varchar, "Email" varchar,
              "First Name" varchar, "Last Name" varchar, "Phone Number" varchar,
              "User Type" varchar, Password varchar, "Billing ID" int)
AS
$$
BEGIN
    RETURN QUERY
    SELECT a."Staff ID", b."User ID", a."Role ID", a."Branch ID",
           b."Username", b."Email", b."First Name", b."Last Name",
           b."Phone Number", b."User Type", b."Password", b."Billing ID"
    FROM public."Staff" a
    INNER JOIN public."User" b ON a."User ID" = b."User ID"
    WHERE a."Branch ID" = "branch id";
END;
$$ LANGUAGE plpgsql;

SELECT getAllEmployeesForBranch( branch id: 1);

```

Staff Table:

	Staff ID	User ID	Role ID	Branch ID
1	1	1	1	1
2	2	2	2	2

User Table:

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2

Output:

```

    □ getallemployeesforbranch
1 (1,1,1,1,john_doe,john@example.com,John,Doe,123456789,Customer,password123,1)

```

2. Get all equipment dropdown:

```

CREATE OR REPLACE FUNCTION getAllEquipmentForBranch("branch id" INT)
RETURNS TABLE("Equipment ID" int, "Equipment Name" varchar, "Purchase Date" timestamp,
              "Equipment Details" varchar, "Equipment Type Name" varchar, "Company Name" varchar,
              "Company Phone Number" varchar)
AS
$$
BEGIN
    RETURN QUERY
    SELECT c."ID", c."Equipment Name", c."Purchase Date", c."Equipment Details", c."Equipment Type Name",
           d."Name" as "Company Name", "Phone Number"
    FROM (
        SELECT *, b."Name" as "Equipment Type Name", a."Name" as "Equipment Name"
        FROM public."Equipment" a
        INNER JOIN public."Equipment Type" b ON a."Equipment Type ID" = b."ID"
        ) c
    INNER JOIN "Equipment Company" d ON c."Company ID" = d."Company ID"
    WHERE c."Branch ID" = "branch id";
END;
$$ LANGUAGE plpgsql;

SELECT getAllEquipmentForBranch( branch id: 1);

```

Equipment Table:

Equipment ID	Name	Purchase Date	Company ID	Equipment Details	Equipment Type ID	Branch ID
1	Treadmill 1	2023-01-01 00:00:00.000000		1 High-quality treadmill		1
2	Dumbbell Set 1	2023-02-01 00:00:00.000000		2 Set of dumbbells		2
3	Bike 1	2023-03-01 00:00:00.000000		1 Stationary bike		3

Equipment Company Table:

Company ID	Name	Phone Number
1	Company A	123-456-7890
2	Company B	987-654-3210

Output:

getallequipmentforbranch
1 (1,"Treadmill 1","2023-01-01 00:00:00","High-quality treadmill",Treadmill,"Company A",123-456-7890)
2 (2,"Dumbbell Set 1","2023-02-01 00:00:00","Set of dumbbells",Dumbbell,"Company B",987-654-3210)

3. Get all companies dropdown:

```
CREATE OR REPLACE FUNCTION getAllCompaniesForBranch("branch id" INT)
RETURNS TABLE("Company Name" varchar, "Phone Number" varchar)
AS
$$
BEGIN
    RETURN QUERY
    SELECT d."Name" as "Company Name", d."Phone Number"
    FROM (
        SELECT *, b."Name" as "Equipment Type Name", a."Name" as "Equipment Name"
        FROM public."Equipment" a
        INNER JOIN public."Equipment Type" b ON a."Equipment Type ID" = b."ID"
        ) c
    INNER JOIN "Equipment Company" d ON c."Company ID" = d."Company ID"
    WHERE c."Branch ID" = "branch id";
END;
$$ LANGUAGE plpgsql;

SELECT getAllCompaniesForBranch( branch id: 1);
```

Equipment Company Table:

 Company ID	Name	Phone Number
1	Company A	123-456-7890
2	Company B	987-654-3210

Output:

 getallcompaniesforbranch
1 ("Company A",123-456-7890)
2 ("Company B",987-654-3210)

Add Staff

First Name Last Name

Phone Number

Username

Branch

Role Drop Down

Auto-Gen Password

Save

1. Role Drop Down:

```
CREATE OR REPLACE FUNCTION getAllRoles()  
RETURNS TABLE("Role ID" int, "Role Name" varchar)  
AS  
$$  
BEGIN  
    RETURN QUERY  
        SELECT * FROM public."Role";  
END;  
$$ LANGUAGE plpgsql;  
  
SELECT getAllRoles();
```

Role Table:

	Role ID	Role Name
1	1	Admin
2	2	Manager
3	3	Employee

Output:

□ getallroles ▾	
1	(1,Admin)
2	(2,Manager)
3	(3,Employee)

2. Adding Staff:

```

CREATE OR REPLACE PROCEDURE add_staff(IN username VARCHAR(255), IN email VARCHAR(255),
                                     IN first_name VARCHAR(255), IN last_name VARCHAR(255), IN phone_number VARCHAR(15),
                                     password IN VARCHAR(255), IN role_id INT, IN branch_id INT, INOUT status_code INT) AS
$$
DECLARE
    temp_user_id INT; -- Temporary variable to hold the new user id
BEGIN
    INSERT INTO public."User"("Username", "Email", "First Name", "Last Name", "Phone Number", "User Type",
                            "Password", "Billing ID") VALUES (username, email, first_name, last_name, phone_number,
                            'Staff', password, NULL)
    RETURNING "User ID" INTO temp_user_id;
    INSERT INTO public."Staff"("User ID", "Role ID", "Branch ID") VALUES (temp_user_id, role_id, branch_id);
    COMMIT;

    status_code := 0; -- Assigning 0 to status_code
END;
$$ LANGUAGE plpgsql;

CALL add_staff( username: 'anish', email: 'anish@anish.anish', first_name: 'anish', last_name: 'anish',
                phone_number: '000-000-0000', password: 'hardpassword', role_id: 1, branch_id: 1, status_code: 0);

```

Before (Staff Table):

	Staff ID	User ID	Role ID	Branch ID
1	1	1	1	1
2	2	2	2	2

After (Staff Table):

	Staff ID	User ID	Role ID	Branch ID
1	1	1	1	1
2	2	2	2	2
3	7		5	1

3. Editing Staff

Edit Staff

Using code block because the procedure is too long to fit in a page clearly:

Unset

```
CREATE OR REPLACE PROCEDURE edit_staff(
    IN user_id INT,
    IN staff_id INT,
    IN username VARCHAR(255),
    IN email VARCHAR(255),
    IN first_name VARCHAR(255),
    IN last_name VARCHAR(255),
    IN phone_number VARCHAR(15),
    IN password VARCHAR(255),
    IN role_id INT,
    IN branch_id INT,
    INOUT status_code INT
) AS
$$
BEGIN
    -- Update user details
    UPDATE public."User"
    SET
        "Username" = username,
        "Email" = email,
        "First Name" = first_name,
        "Last Name" = last_name,
        "Phone Number" = phone_number,
        "Password" = password
    WHERE
        "User ID" = user_id;
```

```

-- Update staff details
UPDATE public."Staff"
SET
    "Role ID" = role_id,
    "Branch ID" = branch_id
WHERE
    "Staff ID" = staff_id;
COMMIT;
-- Set status_code to 0 indicating success
status_code := 0;
END;
$$ LANGUAGE plpgsql;

CALL edit_staff(7, 5, 'Anish again', 'anish@anish.anish', 'anish', 'anish', '000-000-0000',
'hardpassword', 1, 1, 0);

```

Before (Staff Table):

	Staff ID	User ID	Role ID	Branch ID
1	1	1	1	1
2	2	2	2	2
3	7	5	1	1

Before (User Table):

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
3	4	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1
4	5	anish	anish@anish.an...	anish	anish	000-000-0000	Staff	hardpassword	<null>

After (Staff Table):

	Staff ID	User ID	Role ID	Branch ID
1	1	1	1	1
2	2	2	2	2
3	7	5	1	1

After (User Table):

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
3	4	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1
4	5	Anish again	anish@anish.an...	anish	anish	000-000-0000	Staff	hardpassword	<null>

4. Deleting Staff: (We did add cascade rule later on to make things more smooth)

```
CREATE OR REPLACE PROCEDURE delete_staff(  
    IN user_id INT,  
    IN staff_id INT,  
    INOUT status_code INT  
) AS  
$$  
BEGIN  
    -- Delete from Staff table  
    DELETE FROM public."Staff"  
    WHERE "Staff ID" = staff_id;  
  
    -- Delete from User table  
    DELETE FROM public."User"  
    WHERE "User ID" = user_id;  
  
    -- Set status_code to 0 indicating success  
    status_code := 0;  
    COMMIT;  
END;  
$$ LANGUAGE plpgsql;  
  
CALL delete_staff( user_id: 5 , staff_id: 7 , status_code: 0 )
```

Before (Staff Table):

Staff ID	User ID	Role ID	Branch ID
1	1	1	1
2		2	2
7		5	1

Before (User Table):

User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
4	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1
5	Anish again	anish@anish.an...	anish	anish	000-000-0000	Staff	hardpassword	<null>

After (Staff Table):

Staff ID	User ID	Role ID	Branch ID
	1	1	1
	2	2	2

After (User Table):

User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
4	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1

Add Equipment

Equipment Name

Purchase Date

Equipment Company Dropdown

Equipment Type Dropdown

Equipment Details

Save

1. Equipment Company Dropdown:

```
CREATE OR REPLACE FUNCTION get_all_companies()
RETURNS SETOF "Equipment Company" AS
$$
    SELECT * FROM "Equipment Company";
$$ LANGUAGE SQL;

SELECT get_all_companies();
```

Equipment Company table:

Company ID	Name	Phone Number
1	Company A	123-456-7890
2	Company B	987-654-3210

Output:

	get_all_companies
1	(1,"Company A",123-456-7890)
2	(2,"Company B",987-654-3210)

2. Equipment Type Dropdown

```
CREATE OR REPLACE FUNCTION get_all_equipment_types()
RETURNS SETOF "Equipment Type" AS
$$
    SELECT * FROM "Equipment Type";
$$ LANGUAGE SQL;

SELECT get_all_equipment_types();
```

Equipment Type Table:

ID	Name
1	Treadmill
2	Dumbbell
3	Stationary Bike

Output:

get_all_equipment_types
1 (1, Treadmill)
2 (2, Dumbbell)
3 (3, "Stationary Bike")

3. Add equipment type:

```
CREATE OR REPLACE PROCEDURE add_equipment_type(  
    IN name VARCHAR(255),  
    INOUT status_code INT  
) AS  
$$  
BEGIN  
    INSERT INTO public."Equipment Type"("Name") VALUES (name);  
    COMMIT;  
    -- Set status_code to 0 indicating success  
    status_code := 0;  
END;  
$$ LANGUAGE plpgsql;
```

```
CALL add_equipment_type( name: 'Cardio' , status_code: 0 );
```

Before (Equipment Type Table):

	ID	Name
1	1	Treadmill
2	2	Dumbbell
3	3	Stationary Bike

After (Equipment Type Table):

	ID	Name
1	1	Treadmill
2	2	Dumbbell
3	3	Stationary Bike
4	5	Cardio

4. Deleting equipment type:

```
CREATE OR REPLACE PROCEDURE delete_equipment_type(  
    IN type_id INT,  
    INOUT status_code INT  
) AS  
$$  
BEGIN  
    -- Delete from Equipment Type table  
    DELETE FROM public."Equipment Type"  
    WHERE "ID" = type_id;  
    COMMIT;  
    -- Set status_code to 0 indicating success  
    status_code := 0;  
END;  
$$ LANGUAGE plpgsql;
```

```
CALL delete_equipment_type( type_id: 5 , status_code: 0 );
```

Before (Equipment Type Table):

	ID	Name
1	1	Treadmill
2	2	Dumbbell
3	3	Stationary Bike
4	5	Cardio

After (Equipment Type Table):

	ID	Name
1	1	Treadmill
2	2	Dumbbell
3	3	Stationary Bike

5. Adding the equipment:

```

CREATE OR REPLACE PROCEDURE add_equipment(
    IN equipment_name VARCHAR(255),
    IN purchase_date TIMESTAMP,
    IN company_id INT,
    IN equipment_details VARCHAR(255),
    IN equipment_type_id INT,
    IN branch_id INT,
    INOUT status_code INT
) AS
$$
BEGIN
    INSERT INTO public."Equipment"("Name", "Purchase Date", "Company ID", "Equipment Details",
                                    "Equipment Type ID", "Branch ID") VALUES (equipment_name, purchase_date, company_id,
                                    equipment_details, equipment_type_id,
                                    branch_id);

    -- Set status_code to 0 indicating success
    COMMIT;
    status_code := 0;
END;
$$ LANGUAGE plpgsql;

CALL add_equipment( equipment_name: 'Treadmill 2', purchase_date: '2023-01-01 00:00:00.000000', company_id: 1,
                    equipment_details: 'High-quality treadmill',
                    equipment_type_id: 1, branch_id: 1, status_code: 0);

```

Before (Equipment Table):

Equipment ID	Name	Purchase Date	Company ID	Equipment Details	Equipment Type ID	Branch ID
1	Treadmill 1	2023-01-01 00:00:00.000000		1 High-quality treadmill	1	1
2	Dumbbell Set 1	2023-02-01 00:00:00.000000		2 Set of dumbbells	2	1
3	Bike 1	2023-03-01 00:00:00.000000		1 Stationary bike	3	2

After (Equipment Table):

Equipment ID	Name	Purchase Date	Company ID	Equipment Details	Equipment Type ID	Branch ID
1	Treadmill 1	2023-01-01 00:00:00.000000		1 High-quality treadmill		1
2	Dumbbell Set 1	2023-02-01 00:00:00.000000		2 Set of dumbbells		2
3	Bike 1	2023-03-01 00:00:00.000000		1 Stationary bike		3
5	Treadmill 2	2023-01-01 00:00:00.000000		1 High-quality treadmill		1

6. Editing the equipment:

```

CREATE OR REPLACE PROCEDURE edit_equipment(
    IN equipment_id INT,
    IN equipment_name VARCHAR(255),
    IN purchase_date TIMESTAMP,
    IN company_id INT,
    IN equipment_details VARCHAR(255),
    IN equipment_type_id INT,
    IN branch_id INT,
    INOUT status_code INT
) AS
$$
BEGIN
    UPDATE public."Equipment"
    SET "Name" = equipment_name,
        "Purchase Date" = purchase_date,
        "Company ID" = company_id,
        "Equipment Details" = equipment_details,
        "Equipment Type ID" = equipment_type_id,
        "Branch ID" = branch_id
    WHERE "Equipment ID" = equipment_id;
    COMMIT;
    -- Set status_code to 0 indicating success
    status_code := 0;
END;
$$ LANGUAGE plpgsql;

CALL edit_equipment( equipment_id: 5, equipment_name: 'Treadmill 2', purchase_date: '2023-01-01 00:00:00.000000', company_id: 1,
                     equipment_details: 'Highest-quality treadmill',
                     equipment_type_id: 1, branch_id: 1, status_code: 0);|

```

Before (Equipment Table):

	Equipment ID	Name	Purchase Date	Company ID	Equipment Details	Equipment Type ID	Branch ID
1	1	Treadmill 1	2023-01-01 00:00:00.000000		1 High-quality treadmill		1
2	2	Dumbbell Set 1	2023-02-01 00:00:00.000000		2 Set of dumbbells		1
3	3	Bike 1	2023-03-01 00:00:00.000000		1 Stationary bike		2
4	5	Treadmill 2	2023-01-01 00:00:00.000000		1 High-quality treadmill		1

After (Equipment Table):

	Equipment ID	Name	Purchase Date	Company ID	Equipment Details	Equipment Type ID	Branch ID
1	1	Treadmill 1	2023-01-01 00:00:00.000000		1 High-quality treadmill		1
2	2	Dumbbell Set 1	2023-02-01 00:00:00.000000		2 Set of dumbbells		1
3	3	Bike 1	2023-03-01 00:00:00.000000		1 Stationary bike		2
4	5	Treadmill 2	2023-01-01 00:00:00.000000		1 Highest-quality treadmi...		1

7. Deleting the equipment:

```

CREATE OR REPLACE PROCEDURE delete_equipment(
    IN equipment_id INT,
    INOUT status_code INT
) AS
$$
BEGIN
    DELETE FROM public."Equipment"
    WHERE "Equipment ID" = equipment_id;
    COMMIT;
    -- Set status_code to 0 indicating success
    status_code := 0;
END;
$$ LANGUAGE plpgsql;

CALL delete_equipment( equipment_id: 5, status_code: 0);

```

Before (Equipment Table):

Equipment ID	Name	Purchase Date	Company ID	Equipment Details	Equipment Type ID	Branch ID
1	Treadmill 1	2023-01-01 00:00:00.000000		1 High-quality treadmill		1
2	Dumbbell Set 1	2023-02-01 00:00:00.000000		2 Set of dumbbells		1
3	Bike 1	2023-03-01 00:00:00.000000		1 Stationary bike		2
5	Treadmill 2	2023-01-01 00:00:00.000000		1 Highest-quality treadmi...		1

After (Equipment Table):

Equipment ID	Name	Purchase Date	Company ID	Equipment Details	Equipment Type ID	Branch ID
1	Treadmill 1	2023-01-01 00:00:00.000000		1 High-quality treadmill		1
2	Dumbbell Set 1	2023-02-01 00:00:00.000000		2 Set of dumbbells		1
3	Bike 1	2023-03-01 00:00:00.000000		1 Stationary bike		2

Add Company

Name

Phone Number

Save

1. Add Company:

```
CREATE OR REPLACE PROCEDURE add_company(IN name VARCHAR(255), IN phone_number VARCHAR(15), INOUT status_code INT) AS
$$
BEGIN
    INSERT INTO public."Equipment Company"("Name", "Phone Number") VALUES (name, phone_number);
    COMMIT;

    status_code := 0; -- Assigning 0 to status_code
END;
$$ LANGUAGE plpgsql;

CALL add_company( name: 'Cool Company' , phone_number: '555-555-6666' , status_code: 0);
```

Before (Equipment Company Table):

	Company ID	Name	Phone Number
1		1 Company A	123-456-7890
2		2 Company B	987-654-3210

After (Equipment Company Table):

	Company ID	Name	Phone Number
1		1 Company A	123-456-7890
2		2 Company B	987-654-3210
3		4 Cool Company	555-555-6666

2. Edit Company:

```

CREATE OR REPLACE PROCEDURE edit_company(IN company_id INT, IN name VARCHAR(255), IN phone_number VARCHAR(15), INOUT status_code INT) AS
$$
BEGIN
    UPDATE public."Equipment Company"
        SET "Name" = name,
            "Phone Number" = phone_number
        WHERE "Company ID" = company_id;
    COMMIT;
    status_code := 0; -- Assigning 0 to status_code
END;
$$ LANGUAGE plpgsql;

CALL edit_company( company_id: 4, name: 'Cooler Company' , phone_number: '555-555-6666' , status_code: 0);

```

Before (Equipment Company Table):

Company ID	Name	Phone Number
1	Company A	123-456-7890
2	Company B	987-654-3210
4	Cool Company	555-555-6666

After (Equipment Company Table):

Company ID	Name	Phone Number
1	Company A	123-456-7890
2	Company B	987-654-3210
4	Cooler Comp...	555-555-6666

3. Delete Company:

```
CREATE OR REPLACE PROCEDURE delete_company(  
    IN company_id INT,  
    INOUT status_code INT  
) AS  
$$  
BEGIN  
    -- Delete from Equipment Company table  
    DELETE FROM public."Equipment Company"  
    WHERE "Company ID" = company_id;  
    COMMIT;  
    -- Set status_code to 0 indicating success  
    status_code := 0;  
END;  
$$ LANGUAGE plpgsql;  
  
CALL delete_company( company_id: 4 , status_code: 0 );
```

Before (Equipment Company Table):

Company ID	Name	Phone Number
1	Company A	123-456-7890
2	Company B	987-654-3210
4	Cooler Comp...	555-555-6666

After (Equipment Company Table):

Company ID	Name	Phone Number
1	Company A	123-456-7890
2	Company B	987-654-3210



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GYM

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Please Fill In All The Details Below



First Name

Last Name

Extension

Phone Number

Username

Password

Confirm Password

Continue

Code:

```
10d, 11 hours ago | Author (10d) | Execute JSON | Copy | Active Connection | Run on active connection | Select block You, 14 hours ago • feat:  
CREATE OR REPLACE PROCEDURE "create_user"(IN username VARCHAR(255), IN email VARCHAR(255),  
IN first_name VARCHAR(255), IN last_name VARCHAR(255), IN phone_number VARCHAR(15),  
IN user_type VARCHAR(20),  
IN password VARCHAR(255), IN billing_id INT) AS  
$$  
  
BEGIN  
    INSERT INTO public."User"("Username", "Email", "First Name", "Last Name", "Phone Number", "User Type",  
    "Password", "Billing ID") VALUES (username, email, first_name, last_name, phone_number,  
    user_type, password, billing_id);  
    COMMIT;  
END;  
$$ LANGUAGE PLPGSQL;  
Execute JSON
```

Before:

```
15 |   ▷ Execute | JSON
15 |   SELECT select_all_users(); 57ms      You, 1 second ago • Uncommitted changes
16 |   ▷ Execute | JSON
16 |   CALL create_user('user1','user1@gmail.com','user1firstname','user1lastname','0123456789','Customer','$pass1:hashed:salted^$',1);
17 |   ▷ Execute | JSON
17 |   SELECT select_all_users();
18 |
```

User

Search results

Cost: 86ms Total 3

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
	integer	varchar(255)	varchar(255)	varchar(255)	varchar(255)	varchar(15)	varchar(20)	varchar(255)	integer
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
3	4	user11	user11@gmail.com	user11.firstname	user11.lastname	012356789	Customer	pass2	1

After:

```
14 |
15 |   ▷ Execute | JSON
15 |   SELECT select_all_users();
16 |   ▷ Execute | JSON
16 |   CALL create_user('user1','user1@gmail.com','user1firstname','user1lastname','0123456789','Customer','$pass1:hashed:salted^$',1); 41ms
17 |   ▷ Execute | JSON
17 |   SELECT select_all_users();      You, 14 hours ago • feat: added create new users functions ...
18 |
```

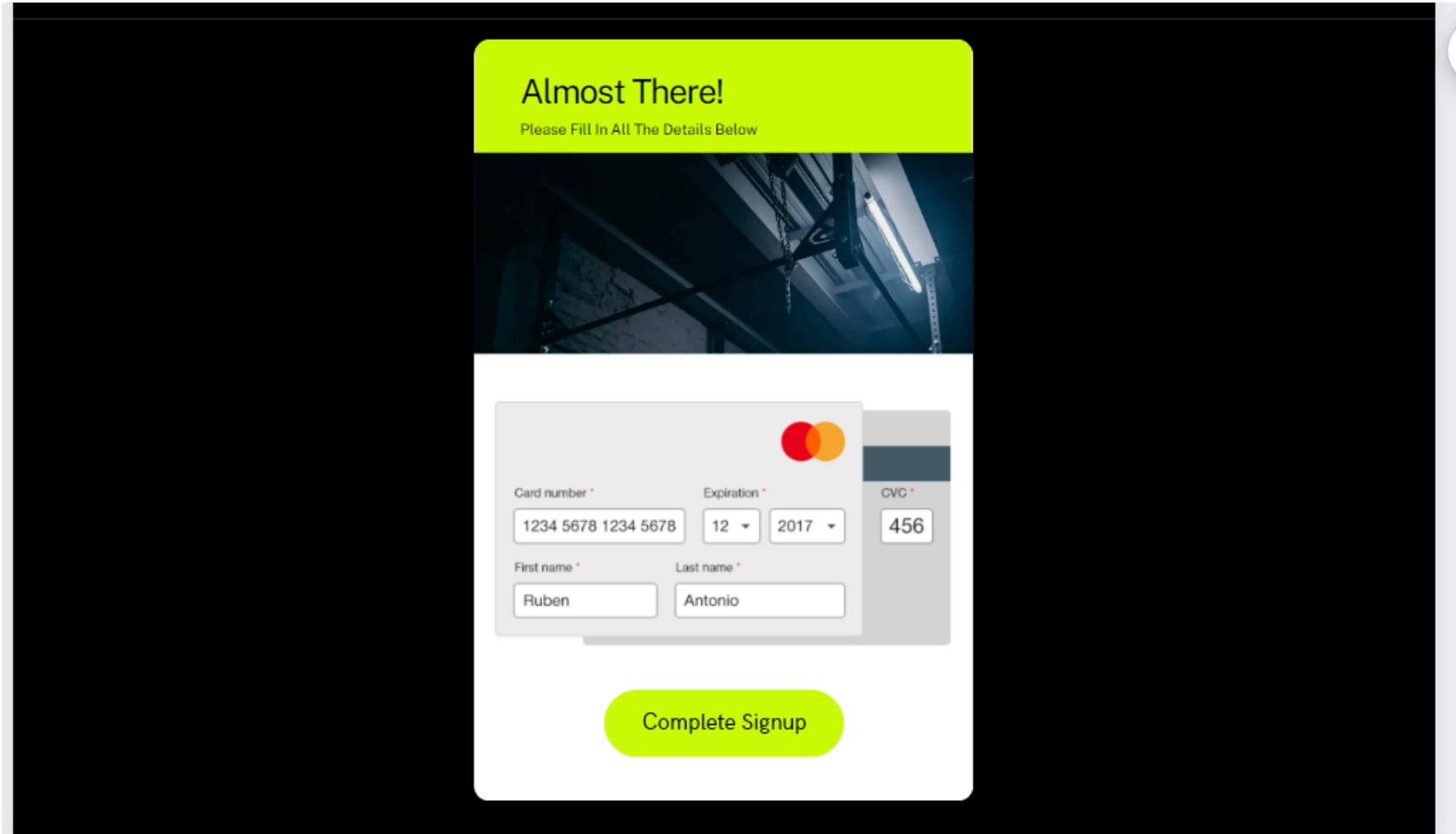
User

Search results

Cost: 44ms Total 4

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
	integer	varchar(255)	varchar(255)	varchar(255)	varchar(255)	varchar(15)	varchar(20)	varchar(255)	integer
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
3	4	user11	user11@gmail.com	user11.firstname	user11.lastname	012356789	Customer	pass2	1
4	6	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1

Create Billing Details



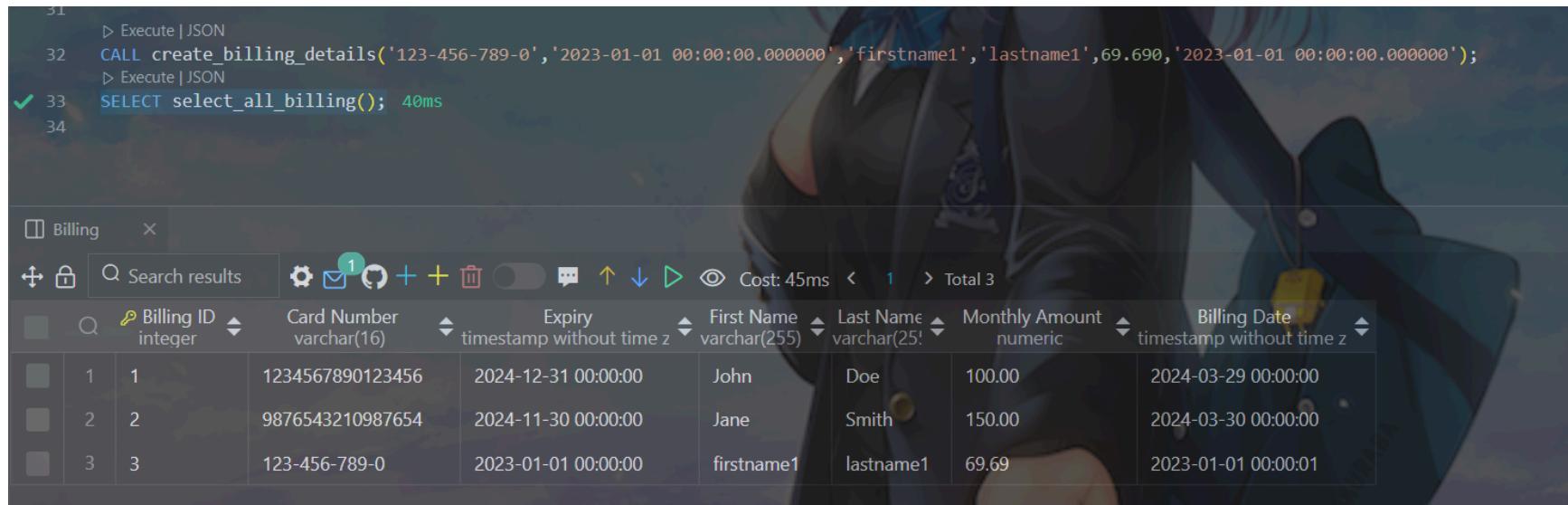
Code:

You, 14 hours ago | 1 author (You) | ▶ Execute | JSON | Copy | 🔒 Active Connection | ▶ Run on active connection | ⚙ Select block

```
1 CREATE OR REPLACE PROCEDURE "create_billing_details"(You, 14 hours ago • feat: added create_billing_details() functions
2   card_number VARCHAR(16),
3   expiry TIMESTAMP,
4   first_name VARCHAR(255),
5   last_name VARCHAR(255),
6   monthly_amount NUMERIC,
7   billing_date TIMESTAMP
8 )
9 AS
10 $$
11 BEGIN
12   INSERT INTO public."Billing"(
13     "Card Number",
14     "Expiry",
15     "First Name",
16     "Last Name",
17     "Monthly Amount",
18     "Billing Date"
19   )
20   VALUES(
21     card_number,
22     expiry,
23     first_name,
24     last_name,
25     monthly_amount,
26     billing_date
27   );
28   COMMIT;
29 END;
30 $$ LANGUAGE PLPGSQL;
31
32 ▷ Execute | JSON
33 CALL create_billing_details('123-456-789-0','2023-01-01 00:00:00.000000','firstname1','lastname1',69.690,'2023-01-01 00:00:00.000000');
34 ▷ Execute | JSON
35 SELECT select_all_billing(); 45ms
```

Before:

```
31      ▷ Execute | JSON
32  CALL create_billing_details('123-456-789-0','2023-01-01 00:00:00.000000','firstname1','lastname1',69.690,'2023-01-01 00:00:00.000000');
33  ▷ Execute | JSON
33  ✓ SELECT select_all_billing();  40ms
34
```



A screenshot of a database query results window titled "Billing". The window shows a table with 3 rows of data. The columns are: Billing ID, Card Number, Expiry, First Name, Last Name, Monthly Amount, and Billing Date.

	Billing ID	Card Number	Expiry	First Name	Last Name	Monthly Amount	Billing Date
1	1	1234567890123456	2024-12-31 00:00:00	John	Doe	100.00	2024-03-29 00:00:00
2	2	9876543210987654	2024-11-30 00:00:00	Jane	Smith	150.00	2024-03-30 00:00:00
3	3	123-456-789-0	2023-01-01 00:00:00	firstname1	lastname1	69.69	2023-01-01 00:00:01

After:

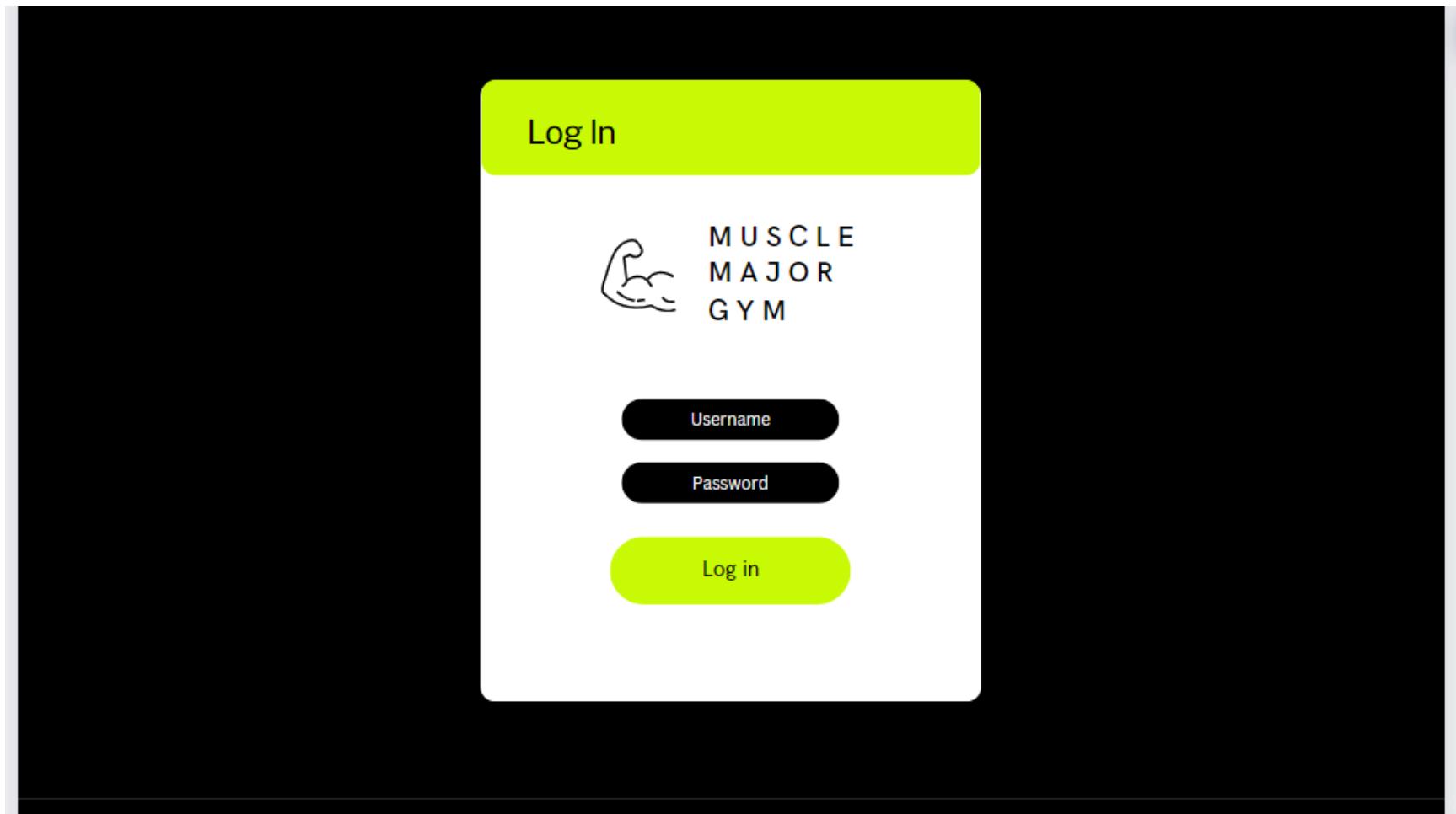
```
31      ▶ Execute | JSON
32  CALL create_billing_details('123-456-789-0','2023-01-01 00:00:00.000000','firstname1','lastname1',69.690,'2023-01-01 00:00:00.000000');
33  ▶ Execute | JSON
33  ✓ SELECT select_all_billing();  36ms
34
```

Billing

Search results 1

	Billing ID	Card Number	Expiry	First Name	Last Name	Monthly Amount	Billing Date
1	1	1234567890123456	2024-12-31 00:00:00	John	Doe	100.00	2024-03-29 00:00:00
2	2	9876543210987654	2024-11-30 00:00:00	Jane	Smith	150.00	2024-03-30 00:00:00
3	3	123-456-789-0	2023-01-01 00:00:00	firstname1	lastname1	69.69	2023-01-01 00:00:01
4	4	123-456-789-0	2023-01-01 00:00:00	firstname1	lastname1	69.69	2023-01-01 00:00:00

Login



Code

```
CREATE OR REPLACE FUNCTION "get_user_by_username_and_password"(username_passed VARCHAR,password_passed VARCHAR)
RETURNS SETOF "User" AS
$$
BEGIN
    RETURN QUERY
    SELECT * FROM "User"
    WHERE "Username" LIKE username_passed
    AND "Password" LIKE password_passed;
END;
$$ LANGUAGE PLPGSQL;

SELECT get_user_by_username_and_password('john_doe','password123');
```

Correct Password

```
1 CREATE OR REPLACE FUNCTION "get_user_by_username_and_password"(username_passed VARCHAR,password_passed VARCHAR)
2 RETURNS SETOF "User" AS
3 $$
4 BEGIN
5     RETURN QUERY
6     SELECT * FROM "User"
7     WHERE "Username" LIKE username_passed
8     AND "Password" LIKE password_passed;
9 END;| You, 16 hours ago • feat: added get user by username and password
10 $$ LANGUAGE PLPGSQL;
11
12 ▷ Execute | JSON
13 ✓ 12 SELECT get_user_by_username_and_password('john_doe','password123'); 47ms
```

Result		X
↶	🔒	<input type="text"/> Search results 1
<input checked="" type="checkbox"/>	Q	get_user_by_username_and_password

Cost: 47ms < 1 > Total 1

	1	(1,john_doe,john@example.com,John,Doe,123456789,Customer,password123,1)
--	---	-------------------------------------------------------------------------

Wrong Password

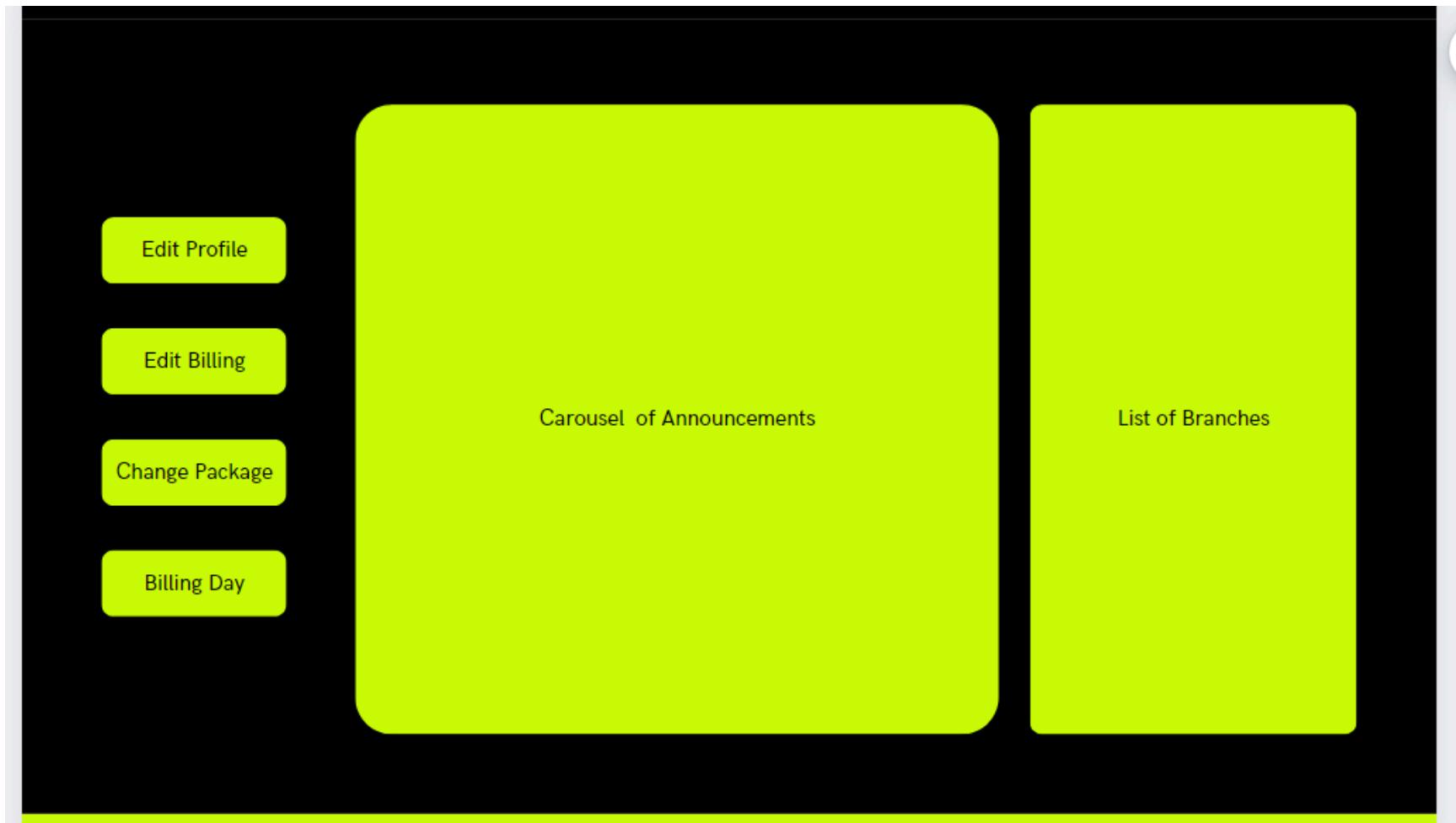
```
You, 16 seconds ago | 1 author (You) | ▶ Execute | JSON | Copy | 🔒 Active Connection | ▶ Run on active connection | ⚙ Select block
1 CREATE OR REPLACE FUNCTION "get_user_by_username_and_password"(username_passed VARCHAR,password_passed VARCHAR)
2 RETURNS SETOF "User" AS
3 $$
4 BEGIN
5     RETURN QUERY
6     SELECT * FROM "User"
7     WHERE "Username" LIKE username_passed
8     AND "Password" LIKE password_passed;
9 END;
10 $$ LANGUAGE PLPGSQL;
11
12 ▶ Execute | JSON
12 | SELECT get_user_by_username_and_password('john_doe','password1234'); 113ms You, 1 second ago • Uncommitted chan
13
```

Result X

⊕ 🔒 Q Search results 1 Cost: 113ms 1 > Total 0

Q get_user_by_username_and_password

User Home Page



Announcements:

Code And Results:

```
src > sql > tables > announcements > get_all_announcements.sql > ...
  ▷ Execute | JSON | Copy | 🔒 Active Connection | ▷ Run on active connection | ⚙ Select block
1 CREATE OR REPLACE FUNCTION "get_all_announcements"()
2 RETURNS SETOF "Announcements" AS
3 $$
4 BEGIN
5   | RETURN QUERY SELECT * FROM "Announcements";
6 END;
7 $$ LANGUAGE PLPGSQL;
8
9 ▷ Execute | JSON
SELECT get_all_announcements(); 37ms
10
```

Result X

↳ 🔒 🔍 Search results ⚙️ ✉️ ⌚ + ⤻ ⤼ ⤾ ⤿ Cost: 37ms ◀ 1 › Total 3

		get_all_announcements	▼
	1	(1,"World has ended")	
	2	(2,"Hello ajarn")	
	3	(3,"Updated announcement")	

List of Branches:

Code And Results:

```
You, 2 days ago | 1 author (You) | ▶ Execute | JSON | Copy | 🔒 Active Connection | ▶ Run on active connection | ⚙ Select block
1 CREATE OR REPLACE FUNCTION select_all_branch()
2 RETURNS SETOF "Branch" AS
3 $$
4 BEGIN
5     RETURN QUERY SELECT * FROM "Branch";| You, 2 days ago • feat: added select_all_branch() function
6 END;
7 $$ LANGUAGE PLPGSQL;
8
9 ▶ Execute | JSON
SELECT select_all_branch(); 160ms
10
```

Result

Search results

1 (2,"456 Elm St")
2 (1,"123 Main St")

Cost: 160ms

The screenshot shows a PostgreSQL database interface. At the top, there is a code editor window displaying a SQL script to create a function named 'select_all_branch()'. The function returns a set of rows from a table named 'Branch'. Below the code editor is a results pane titled 'Result' which contains the output of the executed query. The results show two rows: one with ID 2 and address '456 Elm St', and another with ID 1 and address '123 Main St'. The interface includes various navigation and search tools at the bottom.

Edit Profiles

Edit Profile

First Name	Last Name
Extension	Phone Number
Username	
Password	
Confirm Password	
Save	

Code:

```
▷ Execute | JSON | Copy | 🔒 Active Connection | ▷ Run on active connection | ⚓ Select block
1 CREATE OR REPLACE PROCEDURE "edit_user"(  
2     userid INT,  
3     new_username VARCHAR(255),  
4     new_email VARCHAR(255),  
5     new_first_name VARCHAR(255),  
6     new_last_name VARCHAR(255),  
7     new_phone_number VARCHAR(15),  
8     new_user_type VARCHAR(20)  
9 )  
10 AS  
11 $$  
12 BEGIN  
13     UPDATE public."User"  
14     SET  
15         "Username" = new_username,  
16         "Email" = new_email,  
17         "First Name" = new_first_name,  
18         "Last Name" = new_last_name,  
19         "Phone Number" = new_phone_number,  
20         "User Type" = new_user_type  
21     WHERE "User ID" = userid;  
22     COMMIT;  
23 END;  
24 $$ LANGUAGE PLPGSQL;  
25  
26 ▷ Execute | JSON  
27 SELECT get_user_by_userid(4);  
28 ▷ Execute | JSON  
28 CALL edit_user(4,'user11','user11@gmail.com','user11@firstname','user11@lastname','012356789','Customer');  
28 ▷ Execute | JSON  
28 SELECT get_user_by_userid(4); 35ms
```

Before:

```
25
26  ▷ Execute | JSON
27  SELECT get_user_by_userid(4);
28  ▷ Execute | JSON
27  CALL edit_user(4,'user11','user11@gmail.com','user11.firstname','user11.lastname','012356789','Customer');
28  ▷ Execute | JSON
28  SELECT get_user_by_userid(4);
```

User

Search results

Cost: 115ms < 1 > Total 4

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
	integer	varchar(255)	varchar(255)	varchar(255)	varchar(255)	varchar(15)	varchar(20)	varchar(255)	integer
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
3	6	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1
4	4	user1	user1@gmail.com	user1firstname	user1.lastname	012356789	Customer	pass2	1

After:

```
26  ▷ Execute | JSON
26  SELECT get_user_by_userid(4);
26  ▷ Execute | JSON
✓ 27 CALL edit_user(4,'user11','user11@gmail.com','user11.firstname','user11.lastname','012356789','Customer'); 122ms You, 10 hours ago • feat: a
28  SELECT get_user_by_userid(4);
```

User

Search results

User ID: integer, Username: varchar(255), Email: varchar(255), First Name: varchar(255), Last Name: varchar(255), Phone Number: varchar(15), User Type: varchar(20), Password: varchar(255), Billing ID: integer

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
3	6	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1
4	4	user11	user11@gmail.com	user11firstname	user11lastname	012356789	Customer	pass2	1

Change User Password

Code

```
100, 14 hours ago | Author (100) | D Execute | JSON | Copy | Active Connection | Run on active connection | Select block
1 CREATE OR REPLACE PROCEDURE "edit_user_password"(userid INT, new_password VARCHAR(255)) You, 14 hours ago +feat: added get_user_by_username
2 AS
3 $$
4 BEGIN
5     UPDATE public."User"
6     SET
7         "Password" = new_password
8     WHERE "User ID" = userid;
9     COMMIT;
10 END;
11 $$ LANGUAGE PLPGSQL;
12
13 D Execute | JSON
14 CALL edit_user_password(4,'pass2');
15 D Execute | JSON
16 ✓ 14 SELECT select_all_users(); 37ms
17
```

User

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
3	6	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1
4	4	user11	user11@gmail.com	user11firstname	user11lastname	012356789	Customer	pass2	1

Before:

```
1 CREATE OR REPLACE PROCEDURE "edit_user_password"(userid INT, new_password VARCHAR(255))
2 AS
3 $$*
4 BEGIN
5   UPDATE public."User"
6   SET
7     "Password" = new_password
8   WHERE "User ID" = userid;
9   COMMIT;
10 END;
11 $$ LANGUAGE PLPGSQL;
12
13 ▶ Execute | JSON
13 CALL edit_user_password(4, 'pass11');
13 You, 1 second ago • Uncommitted changes
14 ▶ Execute | JSON
14 SELECT select_all_users();
15
```

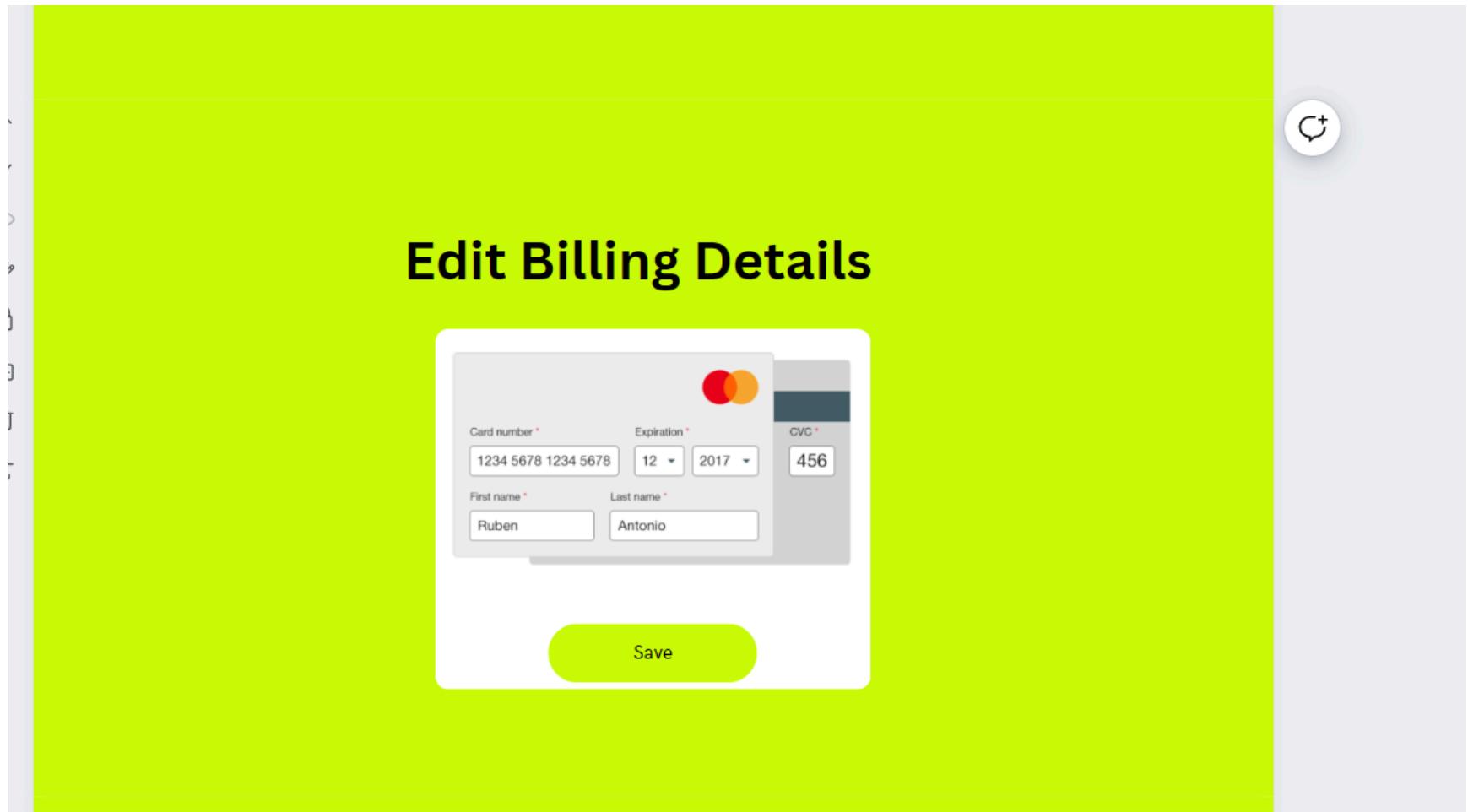
User

	User ID	Username	Email	First Name	Last Name	Phone Number	User Type	Password	Billing ID
1	1	john_doe	john@example.com	John	Doe	123456789	Customer	password123	1
2	2	jane_smith	jane@example.com	Jane	Smith	987654321	Staff	password456	2
3	6	user1	user1@gmail.com	user1firstname	user1lastname	0123456789	Customer	\$pass1:hashed:salted^\$	1
4	4	user11	user11@gmail.com	user11firstname	user11.lastname	012356789	Customer	pass2	1

After:

```
You, 19 seconds ago | 1 author (You) | ▶ Execute | JSON | Copy | 🔒 Active Connection | ▶ Run on active connection | ⚙ Select block
1 CREATE OR REPLACE PROCEDURE "edit_user_password"(userid INT, new_password VARCHAR(255))
2 AS
3 $$ BEGIN
4   UPDATE public."User"
5   SET
6     "Password" = new_password
7   WHERE "User ID" = userid;
8   COMMIT;
9
10 END;
11 $$ LANGUAGE PLPGSQL;
12
13 CALL edit_user_password(4,'pass11'); 116ms
14
15
User ×
Search results 1
User ID Username Email First Name Last Name Phone Number User Type Password Billing ID
1 1 john_doe john@example.com John Doe 123456789 Customer password123 1
2 2 jane_smith jane@example.com Jane Smith 987654321 Staff password456 2
3 6 user1 user1@gmail.com user1firstname user1lastname 0123456789 Customer $pass1:hashed:salted^$ 1
4 4 user11 user11@gmail.com user11firstname user11lastname 012356789 Customer pass11 1
```

Edit Billing Details:



Codes:

You, 10 hours ago | 1 author (You) | ▶ Execute | JSON | Copy | 🔒 Active Connection | ▶ Run on active connection | ⚙ Select block

```
1 CREATE OR REPLACE PROCEDURE "edit_billing_details"(
2     billing_id INT,
3     new_card_number VARCHAR(16),
4     new_expiry TIMESTAMP,
5     new_first_name VARCHAR(255),
6     new_last_name VARCHAR(255),
7     new_monthly_amount NUMERIC,
8     new_billing_date TIMESTAMP
9 )
10 AS
11 $$
12 BEGIN
13     UPDATE "Billing"
14     SET
15         "Card Number" = new_card_number,
16         "Expiry" = new_expiry,
17         "First Name" = new_first_name,
18         "Last Name" = new_last_name,
19         "Monthly Amount" = new_monthly_amount,
20         "Billing Date" = new_billing_date
21     WHERE "Billing ID" = billing_id;
22     COMMIT;
23 END;
24 $$ LANGUAGE PLPGSQL;
25
26 ▷ Execute | JSON
27 SELECT select_all_billing();
28 ▷ Execute | JSON
29 CALL edit_billing_details(3,'123-456-789-0','2023-01-01 00:00:00','firstname1','lastname1',69.69,'2023-01-01 00:00:01');
30 ▷ Execute | JSON
31 SELECT select_all_billing(); 42ms
```

You, 10 hours ago • feat: added update billings details ...

Before:

```
25
26   ▷ Execute | JSON
27   SELECT select_all_billing();
28   ▷ Execute | JSON
27 CALL edit_billing_details(3,'123-456-789-0','2023-01-01 00:00:00','firstname11','lastname11',69.69,'2023-01-01 00:00:01');
28   ▷ Execute | JSON
29   SELECT select_all_billing();
```

Billing

Search results

Cost: 41ms Total 4

	Billing ID	Card Number	Expiry	First Name	Last Name	Monthly Amount	Billing Date
	integer	varchar(16)	timestamp without time z	varchar(255)	varchar(255)	numeric	timestamp without time z
1	1	1234567890123456	2024-12-31 00:00:00	John	Doe	100.00	2024-03-29 00:00:00
2	2	9876543210987654	2024-11-30 00:00:00	Jane	Smith	150.00	2024-03-30 00:00:00
3	3	123-456-789-0	2023-01-01 00:00:00	firstname1	lastname1	69.69	2023-01-01 00:00:01
4	4	123-456-789-0	2023-01-01 00:00:00	firstname1	lastname1	69.69	2023-01-01 00:00:00

After:

```
26    > Execute | JSON
26  SELECT select_all_billing();
27  ✓ CALL edit_billing_details(3,'123-456-789-0','2023-01-01 00:00:00','firstname11','lastname11',69.69,'2023-01-01 00:00:01');  41ms
28  SELECT select_all_billing();
29
```

Billing

Search results

Cost: 37ms Total 4

	Billing ID	Card Number	Expiry	First Name	Last Name	Monthly Amount	Billing Date
1	1	1234567890123456	2024-12-31 00:00:00	John	Doe	100.00	2024-03-29 00:00:00
2	2	9876543210987654	2024-11-30 00:00:00	Jane	Smith	150.00	2024-03-30 00:00:00
3	4	123-456-789-0	2023-01-01 00:00:00	firstname1	lastname1	69.69	2023-01-01 00:00:00
4	3	123-456-789-0	2023-01-01 00:00:00	firstname11	lastname11	69.69	2023-01-01 00:00:01

Select Package

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SELECT A PACKAGE

Package A

Package B

Package C

Package D

PROCEED

Code:

You, 1 hour ago | 1 author (You) | ▶ Execute | JSON | Copy | Active Connection | ▶ Run on active connection | ⚙ Select block

```
✓ 1 CREATE OR REPLACE FUNCTION "select_all_package"()
2 RETURNS SETOF "Package" AS
3 $$
4 BEGIN
5   RETURN QUERY SELECT * FROM "Package";
6 END;
7 $$ LANGUAGE PLPGSQL; 40ms
8
9
```

Package X

Search results 1

Package Name: varchar(255)

Price: numeric

Package ID: integer

Cost: 85ms

Total 3

	Package ID	Package Name	Price	
1	1	Basic	50.00	
2	2	Standard	100.00	
3	3	Premium	150.00	

Code

```
src > sql > tables > membership > edit_user_package.sql > ...
    ▷ Execute | JSON | Copy | 🔒 Active Connection | ▷ Run on active connection | ⚡ Select block
1 CREATE OR REPLACE PROCEDURE "edit_user_package"(customer_id INT, package_id INT)
2 AS
3 $$
4 BEGIN
5     UPDATE "Membership"
6     SET
7         "Package ID" = package_id
8     WHERE "Customer ID" = customer_id;
9     COMMIT;
10 END;
11 $$ LANGUAGE PLPGSQL;
12
13 ▷ Execute | JSON
14 CALL edit_user_package(3);
```

Membership ×

⊕ 🔒 Search results 1 🔍 + + 🗑️ 🔍 Cost: 90ms < 1 > Total 2

	Membership ID	Customer ID	Package ID	Date Started
	integer	integer	integer	timestamp without time z
1	1	1	2	2024-01-01 00:00:00
2	2	3	1	2024-02-01 00:00:00

Before:

Membership

	Membership ID	Customer ID	Package ID	Date Started
1	1	1	2	2024-01-01 00:00:00
2	2	3	1	2024-02-01 00:00:00

After:

```
src > sql > tables > membership > edit_user_package.sql > ...
  ▷ Execute | JSON | Copy | 🔒 Active Connection | ▷ Run on active connection | ⚙ Select block
1 CREATE OR REPLACE PROCEDURE "edit_user_package"(customer_id INT, package_id INT)
2 AS
3 $$
4 BEGIN
5   UPDATE "Membership"
6   SET
7     "Package ID" = package_id
8   WHERE "Customer ID" = customer_id;
9   COMMIT;
10 END;
11 $$ LANGUAGE PLPGSQL;
12
13 CALL edit_user_package(3,2);  42ms
14
```

Membership ×

↳ 🔒 Search results 1 🔍 + + 🖌️ 🔍 Cost: 39ms 1 > Total 2

	Membership ID	Customer ID	Package ID	Date Started
	integer	integer	integer	timestamp without time zone
1	1	1	2	2024-01-01 00:00:00
2	2	3	2	2024-02-01 00:00:00

View User's Billing Details:

Codes And Results:

```
src > sql > tables > billing > get_billing_by_userid.sql > ...
    ▶ Execute | JSON | Copy | 🔒 Active Connection | ▶ Run on active connection | ⚙ Select block
1 CREATE OR REPLACE FUNCTION "get_billing_by_userid"(userid Int)
2 RETURNS SETOF "Billing" AS
3 $$
4 BEGIN
5     RETURN QUERY SELECT "Billing".* FROM "Billing"
6         INNER JOIN "User" ON "Billing"."Billing ID" = "User"."Billing ID"
7         WHERE "User"."User ID" = userid;
8 END;
9 $$ LANGUAGE PLPGSQL;
10
11 ▶ Execute | JSON
12 ✓ 11 SELECT get_billing_by_userid(4); 42ms
```

Result

Search results

get_billing_by_userid

	1	(1,1234567890123456,"2024-12-31 00:00:00",John,Doe,100.00,"2024-03-29 00:00:00")
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Summary

In this project, we designed a database to support a fitness center with multiple branches. The database includes tables for managing users, roles, memberships, packages, billing information, equipment, branches, staff, equipment types, and equipment companies. We also provided SQL scripts to create these tables and dummy data to populate them.

The database design allows for the management of customers, staff, equipment, and branches across multiple locations. Each branch can have its own staff members, equipment inventory, and customer base. Users can be assigned different roles, such as admin, manager, or employee, to manage various aspects of the fitness center.

To improve the design, we could consider adding more constraints and validations to ensure data integrity. Additionally, implementing more sophisticated authorization and authentication mechanisms would enhance security. Future improvements could also involve optimizing queries for better performance and scalability. The UI was not designed beautifully. There are definitely things that can be improved in that department.

Overall, the project demonstrates the process of designing a database for a multi-branch fitness center and provides a foundation for building a corresponding application. Collaboration through GitHub allowed team members to contribute effectively to the project.