



CSE464: Advance Database Systems

[Fall 2022]

Section: 01

Project SRS

Cash Transfer

Submitted by:

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Cash Transfer

Introduction:

Cash Transfer is a web-based application where a person can easily transfer or get cash easily.

People that have a large amount distance between them but need to transfer or receive cash can easily do it in the site.

Technologies:

We had use **Python (Django)** to develop this system because python is a very secure language and easy to use. For designing, we had use **HTML, CSS, JavaScript, Bootstrap**. We had use **Xampp Control Panel** as a main server because it is a locally created virtual server in which we can easily create **Apache MySQL** server for our project. Moreover, Xampp is free of cost and easy to use.

Trigger, Function and Procedure Commands:

```
--pl/sql for trigger, transactions and procedure
--1
DELIMITER $$
CREATE OR REPLACE TRIGGER check_user_amounts_while_transfer
BEFORE
    INSERT ON transactions_model
FOR EACH ROW
BEGIN
    DECLARE bala INT;
    SELECT balance INTO bala FROM users_model WHERE email = NEW.sender;
    IF bala < NEW.amount THEN
        SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'You don't have enough balance to post';
    END IF;
END $$
DELIMITER ;

--2
DELIMITER $$
CREATE OR REPLACE TRIGGER update_user_amounts_after_transfer
AFTER
    INSERT ON transactions_model
FOR EACH ROW BEGIN
    UPDATE users_model SET balance = balance - NEW.amount WHERE email = NEW.sender;
    UPDATE users_model SET balance = balance + NEW.amount WHERE email = NEW.receiver;
END $$
DELIMITER ;

--3
DELIMITER $$
CREATE OR REPLACE TRIGGER check_user_transfer_amounts_while_transfer
BEFORE
    INSERT ON transactions_model
FOR EACH ROW
BEGIN
    DECLARE bala INT;
    SELECT balance INTO bala FROM users_model WHERE email = NEW.sender;
    IF NEW.amount < 50 THEN
        SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Amount must be greater than or equal to 50';
    END IF;
END $$
DELIMITER ;

-- procedure
CREATE OR REPLACE PROCEDURE getTrxnHistory(IN userEmail varchar(40))
NOT DETERMINISTIC CONTAINS SQL
SQL SECURITY DEFINER
SELECT *
FROM transactions_model
WHERE sender = userEmail OR receiver = userEmail;
```

Fig: Trigger and Procedure Commands

Databases:

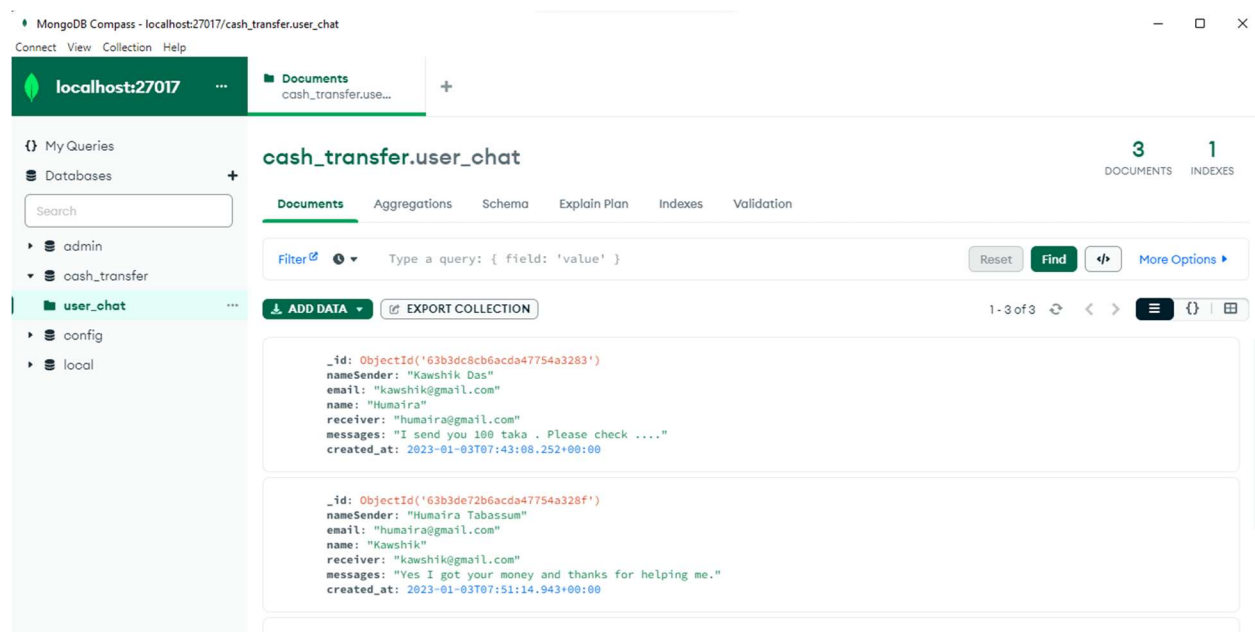


Fig1: MongoDB

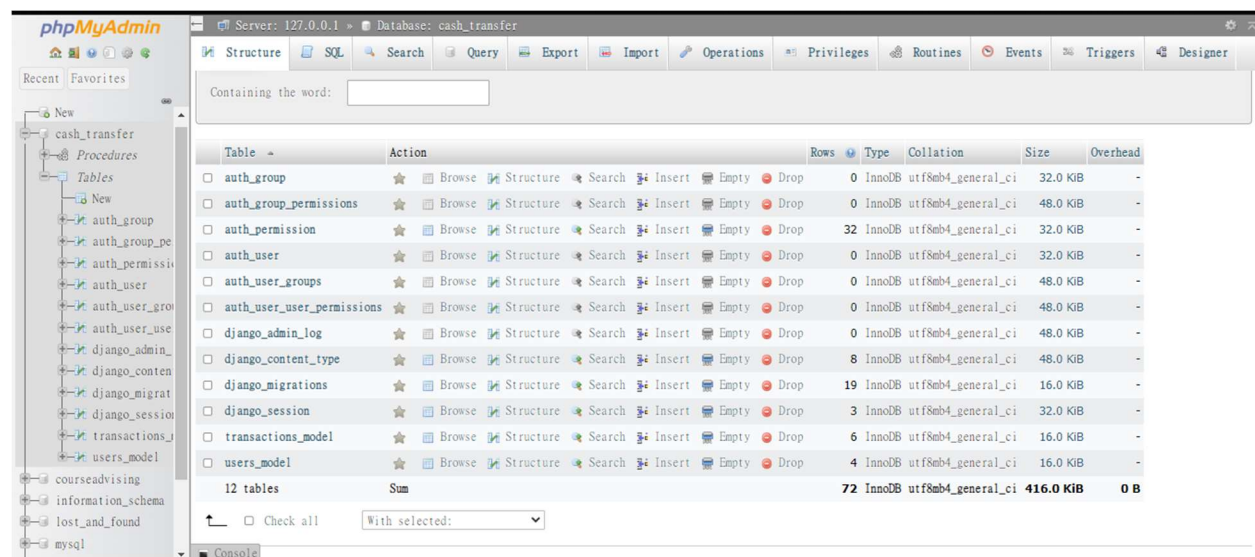
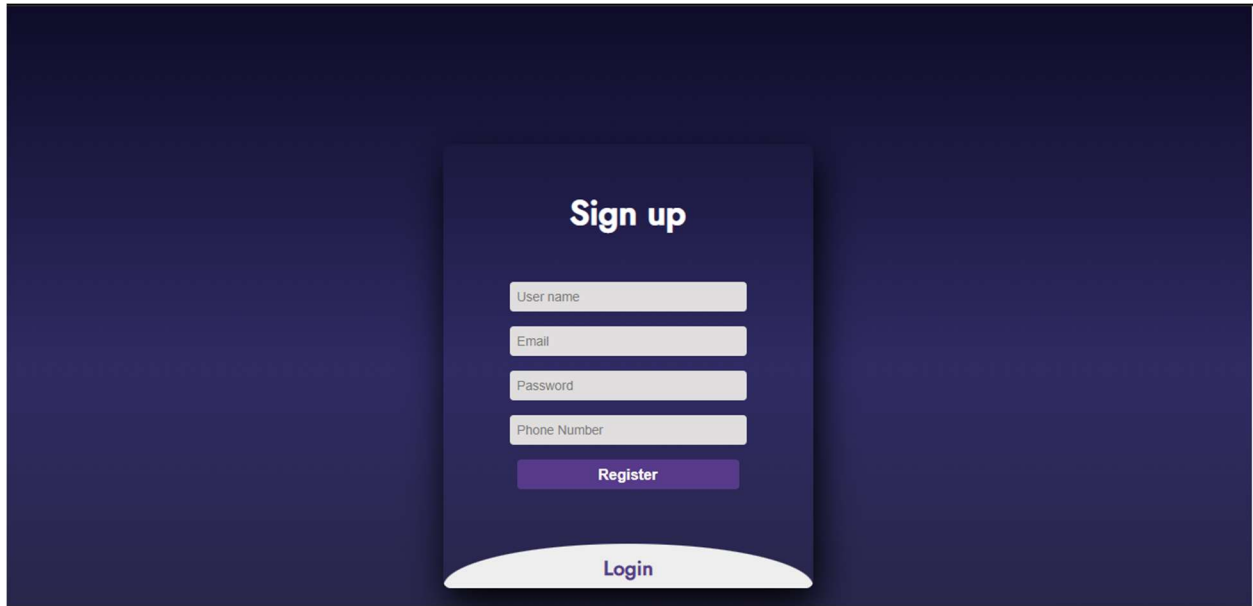


Fig1: MySQL

GUI Screenshots:



A screenshot of a 'Sign up' form on a dark blue background. The form is centered and has a white title 'Sign up'. Below the title are four input fields: 'User name', 'Email', 'Password', and 'Phone Number'. A purple 'Register' button is positioned below the input fields. At the bottom of the form, there is a white curved area containing the text 'Login' in blue.

Sign up

User name

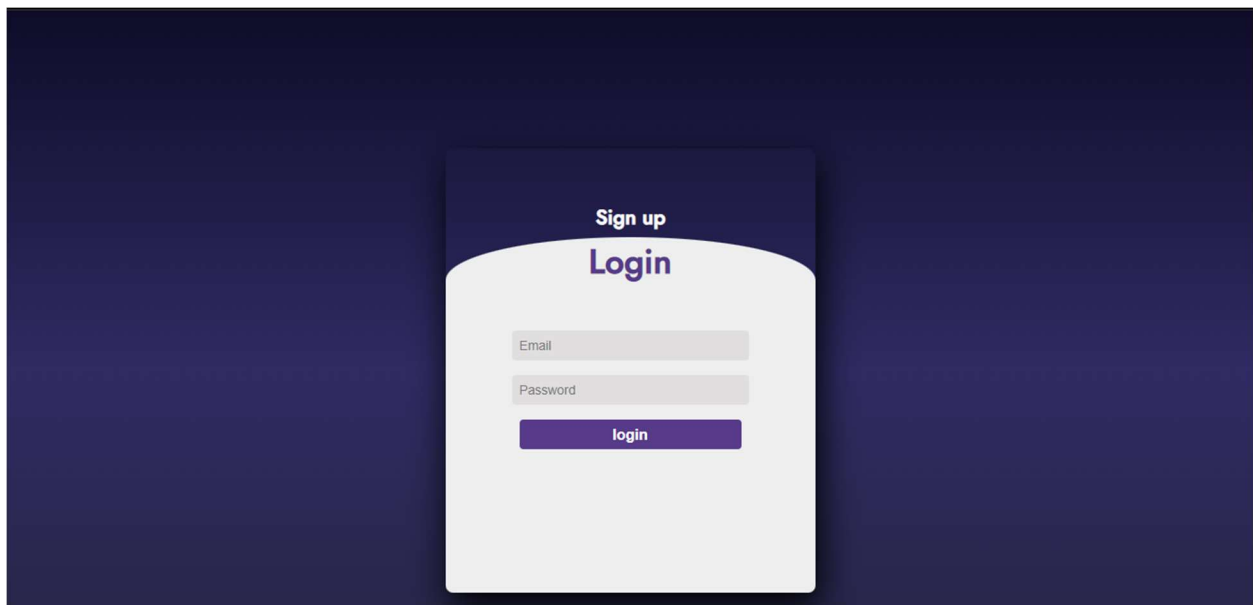
Email

Password

Phone Number

Register

Login



A screenshot of a 'Login' form on a dark blue background. The form is centered and has a white title 'Login'. Above the title is the text 'Sign up' in blue. Below the title are two input fields: 'Email' and 'Password'. A purple 'login' button is positioned below the input fields.

Sign up

Login

Email

Password

login



Humaira Tabassum

500TK

Name: Humaira Tabassum

Balance: 500TK

Email: humaira@gmail.com

Phone: 01733627713

Transaction

Sender:

humaira@gmail.com

Balance:

350

Receiver:


Amount (min: 50Tk):

Submit


Go back to Home

TRANSACTION HISTORY


#	Sender	Receiver	Amount	Date & Time
1	kawshik@gmail.com	humaira@gmail.com	100TK	Jan. 3, 2023, 7:40 a.m.
3	humaira@gmail.com	test@gmail.com	100TK	Jan. 4, 2023, 8:57 p.m.
4	humaira@gmail.com	kawshik@gmail.com	150TK	Jan. 4, 2023, 8:58 p.m.
5	tonima@gmail.com	humaira@gmail.com	100TK	Jan. 4, 2023, 9:02 p.m.
6	humaira@gmail.com	tonima@gmail.com	50TK	Jan. 4, 2023, 9:03 p.m.



Name
Humaira Tabassum



Phone
01733627713



Email
humaira@gmail.com

Send Your Message to Your Money Sender/Receiver

Send NowCancel

Received Messages

Name: Kawshik Das
Email: kawshik@gmail.com
Message: I send you 100 taka . Please check
Jan. 3, 2023, 7:43 a.m.

Name: test
Email: test@gmail.com
Message: hello
Jan. 4, 2023, 4:39 a.m.

Send Messages

Name: Kawshik
Email: kawshik@gmail.com
Message: Yes I got your money and thanks for helping me.
Jan. 3, 2023, 7:51 a.m.