CSE464: Advance Database Systems

[Fall 2022]

Section: 01

Project SRS

Blogger Spirit

Submitted by:

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2018-3-60-052	**Sourav Saha**

Project File: https://github.com/sabikrahat/blogger_spirit

Blogger Spirit

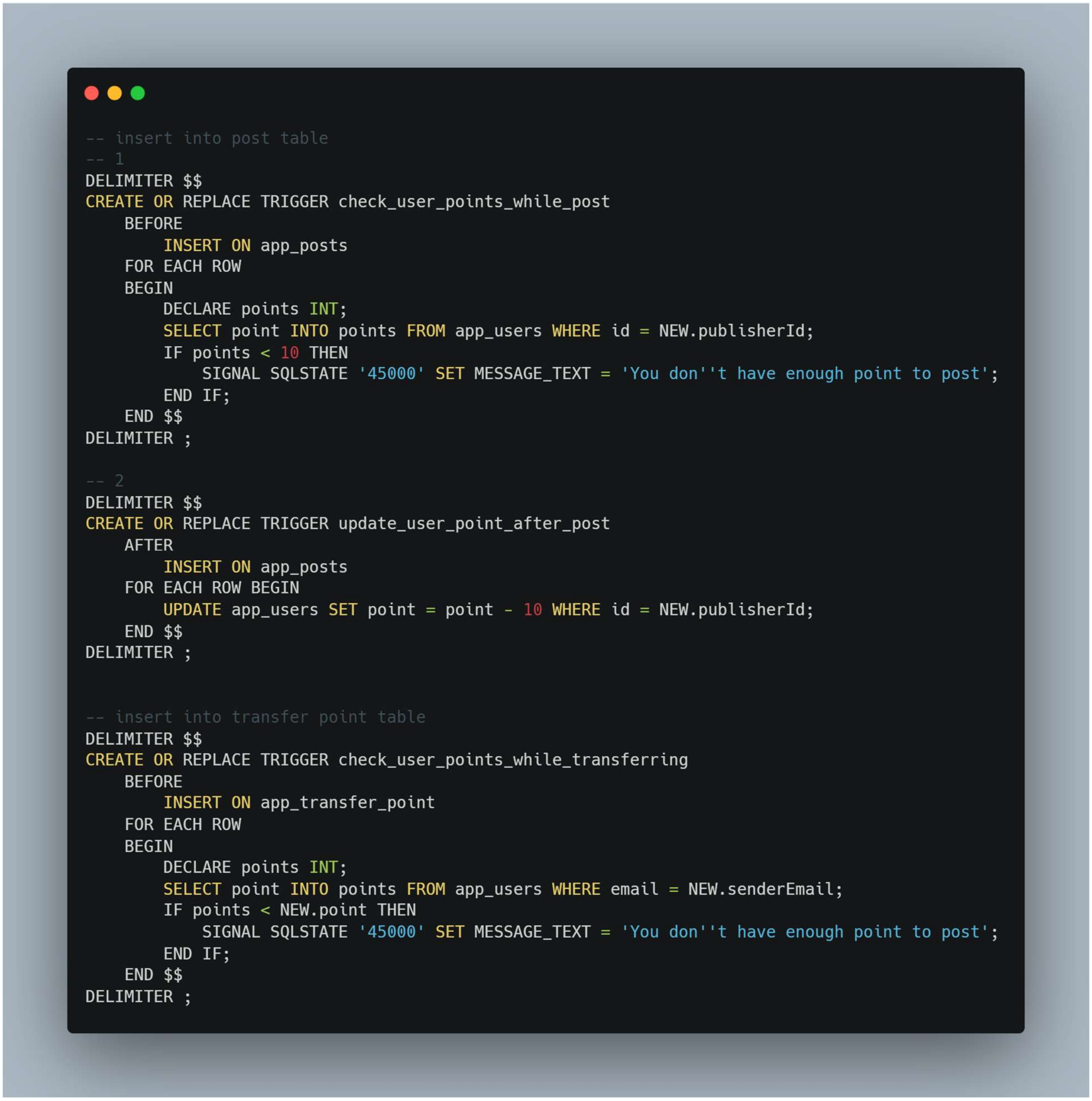
Introduction:

Blogger Spirit is a web-based application where a person can easily write his or her blog. For each post 10 points will be reduced. Users can also transfer point from one account to another. User can also see his transferred points and received points. Users can also give feedback and also see other feedbacks

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. We had also use **mongo dB** database to store users' feedbacks. Besides, we had use git version control to track our workflow neat and clearly.

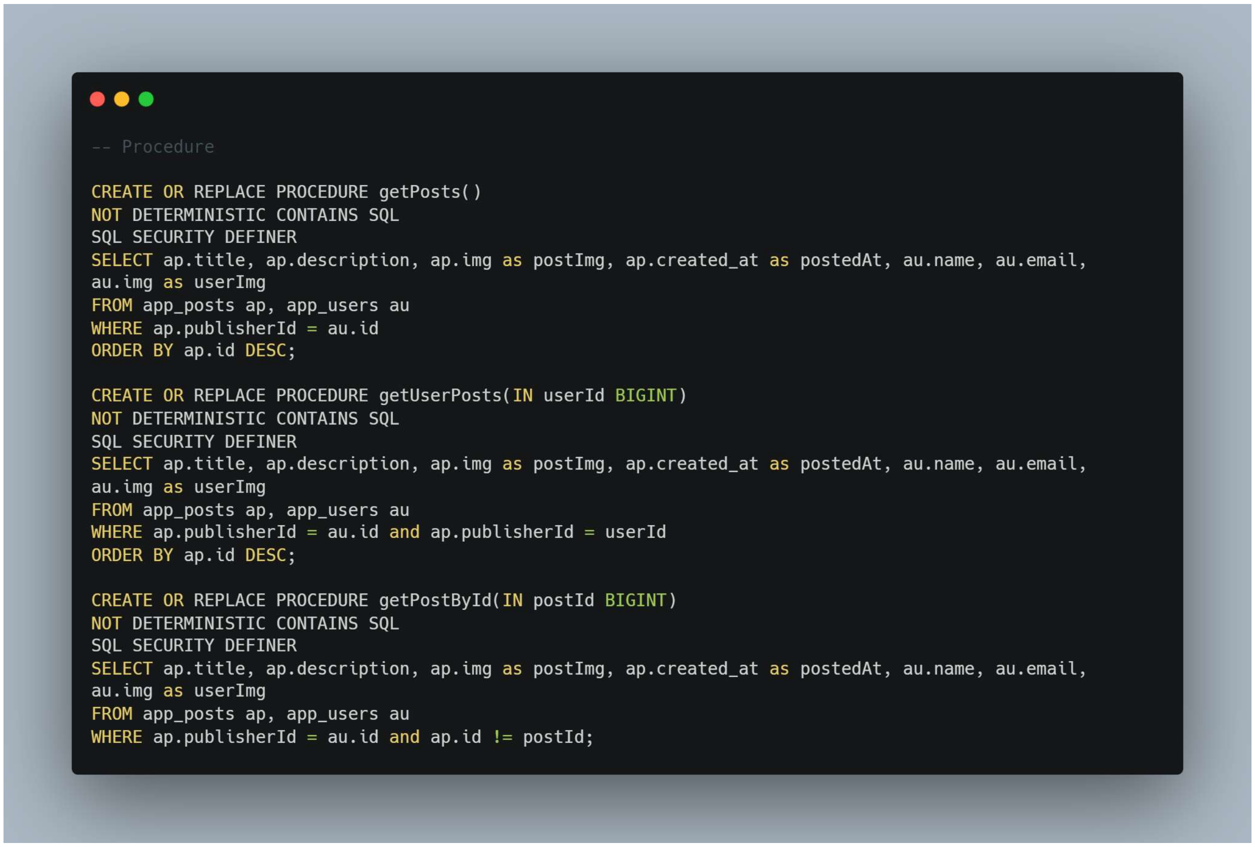
Trigger Commands:



```
-- insert into post table
-- 1
DELIMITER $$
CREATE OR REPLACE TRIGGER check_user_points_while_post
    BEFORE
        INSERT ON app_posts
    FOR EACH ROW
    BEGIN
        DECLARE points INT;
        SELECT point INTO points FROM app_users WHERE id = NEW.publisherId;
        IF points < 10 THEN
            SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'You don''t have enough point to post';
        END IF;
    END $$
DELIMITER ;

-- 2
DELIMITER $$
CREATE OR REPLACE TRIGGER update_user_point_after_post
    AFTER
        INSERT ON app_posts
    FOR EACH ROW BEGIN
        UPDATE app_users SET point = point - 10 WHERE id = NEW.publisherId;
    END $$
DELIMITER ;


-- insert into transfer point table
DELIMITER $$
CREATE OR REPLACE TRIGGER check_user_points_while_transferring
    BEFORE
        INSERT ON app_transfer_point
    FOR EACH ROW
    BEGIN
        DECLARE points INT;
        SELECT point INTO points FROM app_users WHERE email = NEW.senderEmail;
        IF points < NEW.point THEN
            SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'You don''t have enough point to post';
        END IF;
    END $$
DELIMITER ;
```

Fig: Trigger Commands

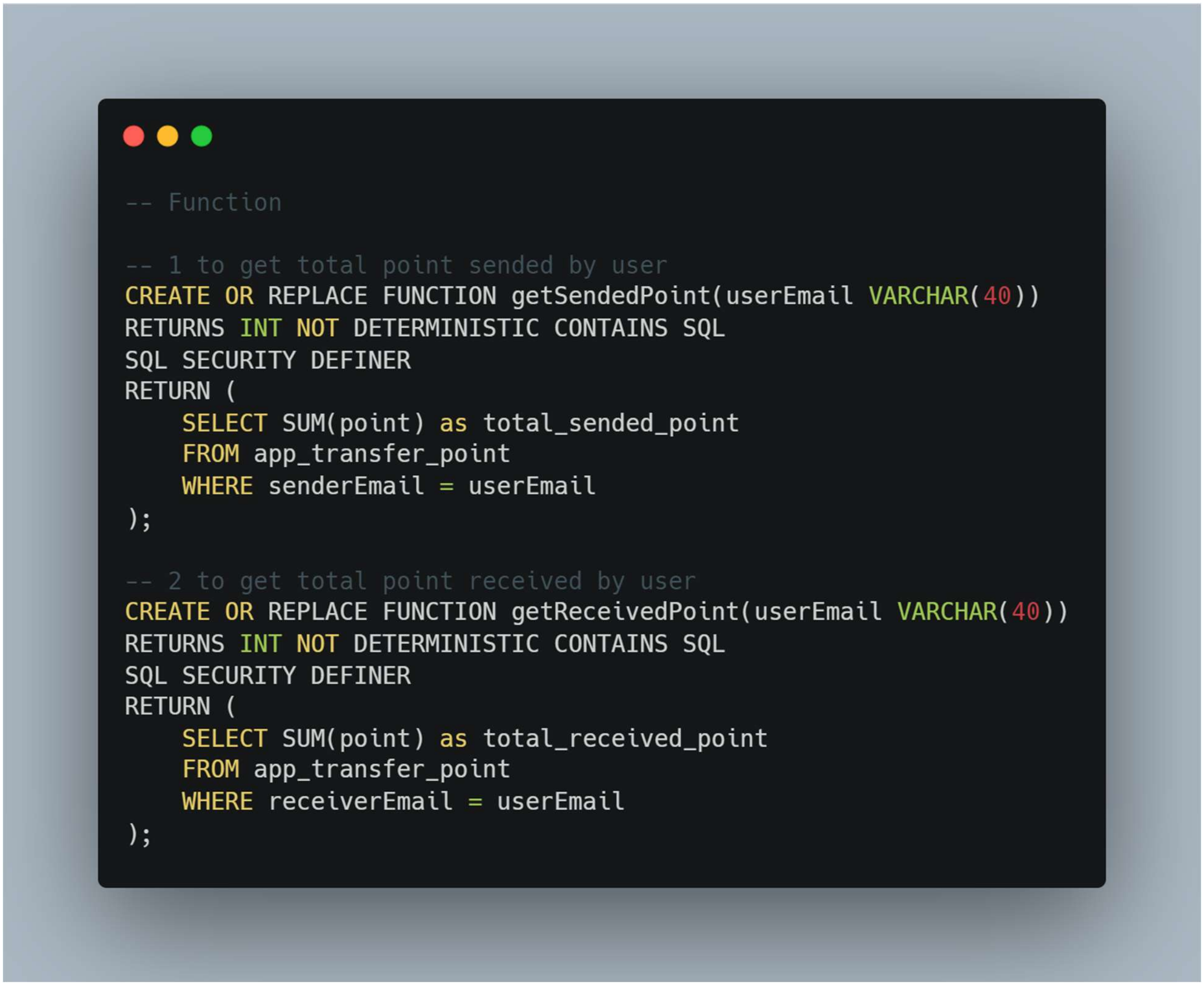
Procedure Commands:



```
-- Procedure

CREATE OR REPLACE PROCEDURE getPosts()
NOT DETERMINISTIC CONTAINS SQL
SQL SECURITY DEFINER
SELECT ap.title, ap.description, ap.img as postImg, ap.created_at as postedAt, au.name, au.email,
au.img as userImg
FROM app_posts ap, app_users au
WHERE ap.publisherId = au.id
ORDER BY ap.id DESC;

CREATE OR REPLACE PROCEDURE getUserPosts(IN userId BIGINT)
NOT DETERMINISTIC CONTAINS SQL
SQL SECURITY DEFINER
SELECT ap.title, ap.description, ap.img as postImg, ap.created_at as postedAt, au.name, au.email,
au.img as userImg
FROM app_posts ap, app_users au
WHERE ap.publisherId = au.id and ap.publisherId = userId
ORDER BY ap.id DESC;

CREATE OR REPLACE PROCEDURE getPostById(IN postId BIGINT)
NOT DETERMINISTIC CONTAINS SQL
SQL SECURITY DEFINER
SELECT ap.title, ap.description, ap.img as postImg, ap.created_at as postedAt, au.name, au.email,
au.img as userImg
FROM app_posts ap, app_users au
WHERE ap.publisherId = au.id and ap.id != postId;
```

Fig: Procedure Commands

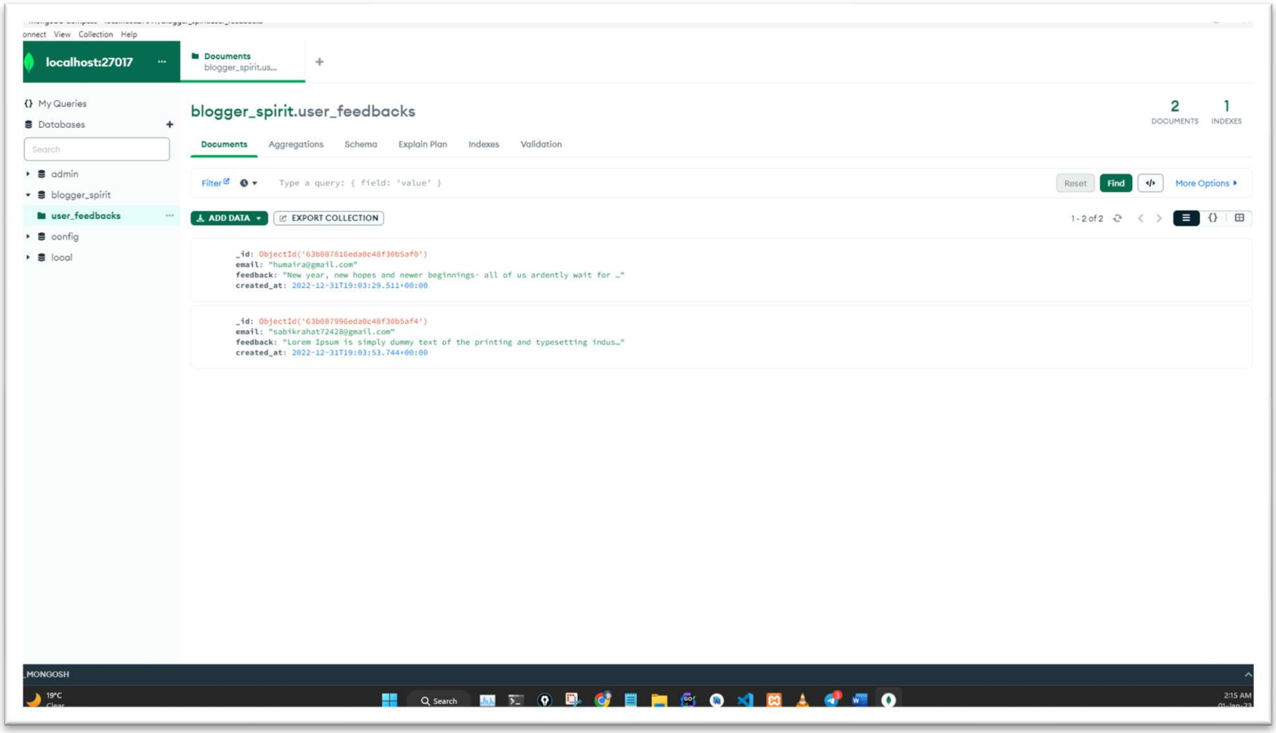
Functions Commands:



```
-- Function

-- 1 to get total point sended by user
CREATE OR REPLACE FUNCTION getSendedPoint(userEmail VARCHAR(40))
RETURNS INT NOT DETERMINISTIC CONTAINS SQL
SQL SECURITY DEFINER
RETURN (
    SELECT SUM(point) as total_sended_point
    FROM app_transfer_point
    WHERE senderEmail = userEmail
);

-- 2 to get total point received by user
CREATE OR REPLACE FUNCTION getReceivedPoint(userEmail VARCHAR(40))
RETURNS INT NOT DETERMINISTIC CONTAINS SQL
SQL SECURITY DEFINER
RETURN (
    SELECT SUM(point) as total_received_point
    FROM app_transfer_point
    WHERE receiverEmail = userEmail
);
```

Fig: Functions Commands

Databases:


localhost:27017
Documents
blogger_spirit.us...
My Queries
Databases
admin
blogger_spirit
user_feedbacks
config
local
blogger_spirit.user_feedbacks
2 DOCUMENTS
1 INDEXES
Documents
Aggregations
Schema
Explain Plan
Indexes
Validation
Filter
Type a query: { field: 'value' }
Reset
Find
More Options
ADD DATA
EXPORT COLLECTION
1 - 2 of 2
_MONGOSH

```
_id: ObjectId('63b087816eda0c48f30b5af0')
email: "humaira@gmail.com"
feedback: "New year, new hopes and newer beginnings- all of us ardently wait for …"
created_at: 2022-12-31T19:03:29.511+00:00
```

```
_id: ObjectId('63b087996eda0c48f30b5af4')
email: "sabikrahat72428@gmail.com"
feedback: "Lorem Ipsum is simply dummy text of the printing and typesetting indus…"
created_at: 2022-12-31T19:03:53.744+00:00
```

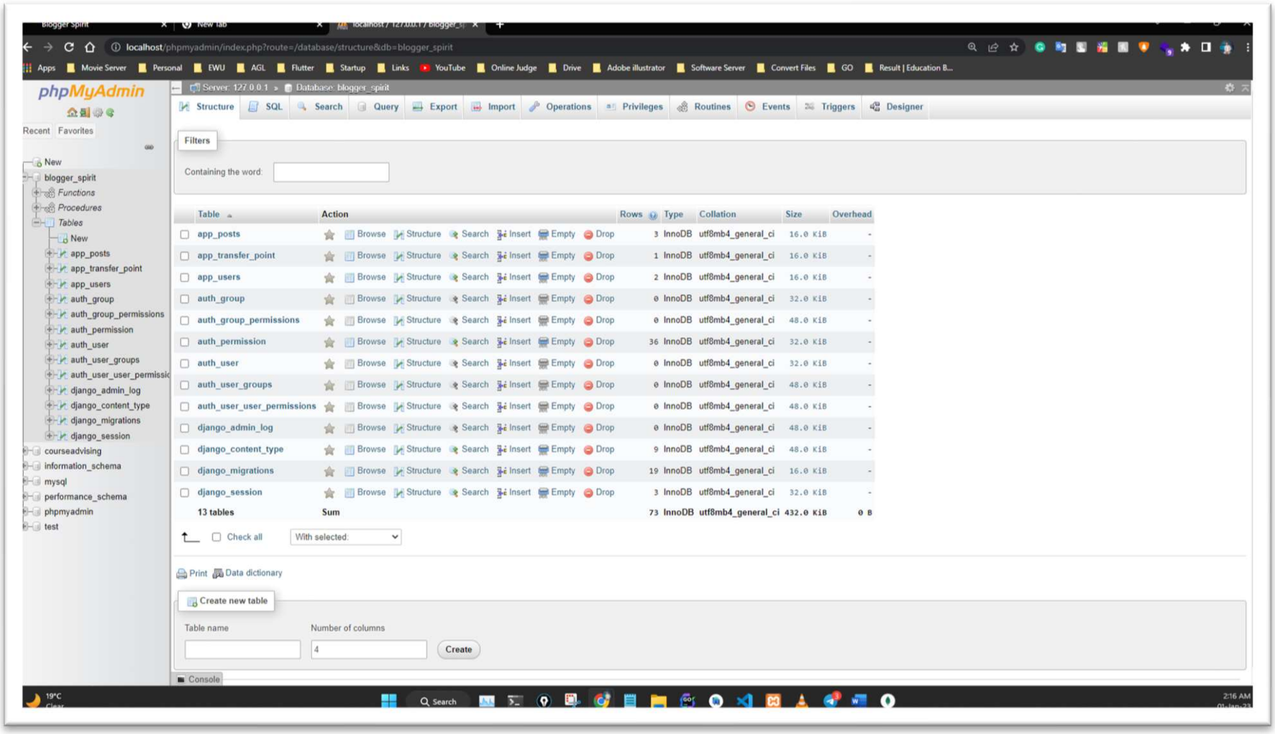

localhost/phpmyadmin/index.php?route=/database/structure&db=blogger_spirit
phpMyAdmin
Server: 127.0.0.1 » Database: blogger_spirit
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routines
Events
Triggers
Designer
Recent
Favorites
New
blogger_spirit
Functions
Procedures
Tables
courseadvising
information_schema
mysql
performance_schema
phpmyadmin
test
Filters
Containing the word:
Console

	Table	Action	Rows	Type	Collation	Size	Overhead
☐	app_posts	★ Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	app_transfer_point	★ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	app_users	★ Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	auth_group	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
☐	auth_group_permissions	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
☐	auth_permission	★ Browse Structure Search Insert Empty Drop	36	InnoDB	utf8mb4_general_ci	32.0 KiB	-
☐	auth_user	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
☐	auth_user_groups	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
☐	auth_user_user_permissions	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
☐	django_admin_log	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
☐	django_content_type	★ Browse Structure Search Insert Empty Drop	9	InnoDB	utf8mb4_general_ci	48.0 KiB	-
☐	django_migrations	★ Browse Structure Search Insert Empty Drop	19	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	django_session	★ Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	32.0 KiB	-
	13 tables	Sum	73	InnoDB	utf8mb4_general_ci	432.0 KiB	0 B

☐ Check all   With selected:

Print Data dictionary

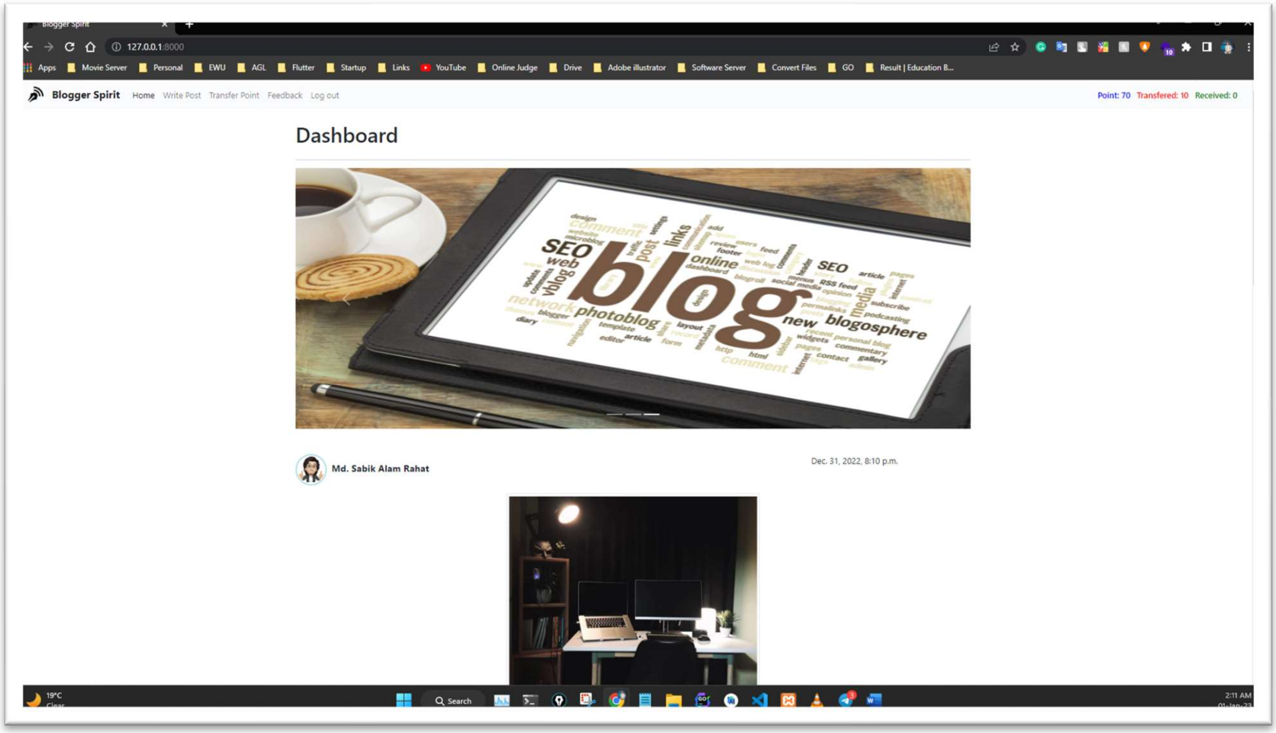
Create new table

Table name:

Number of columns: 4

Create

GUI Screenshots:

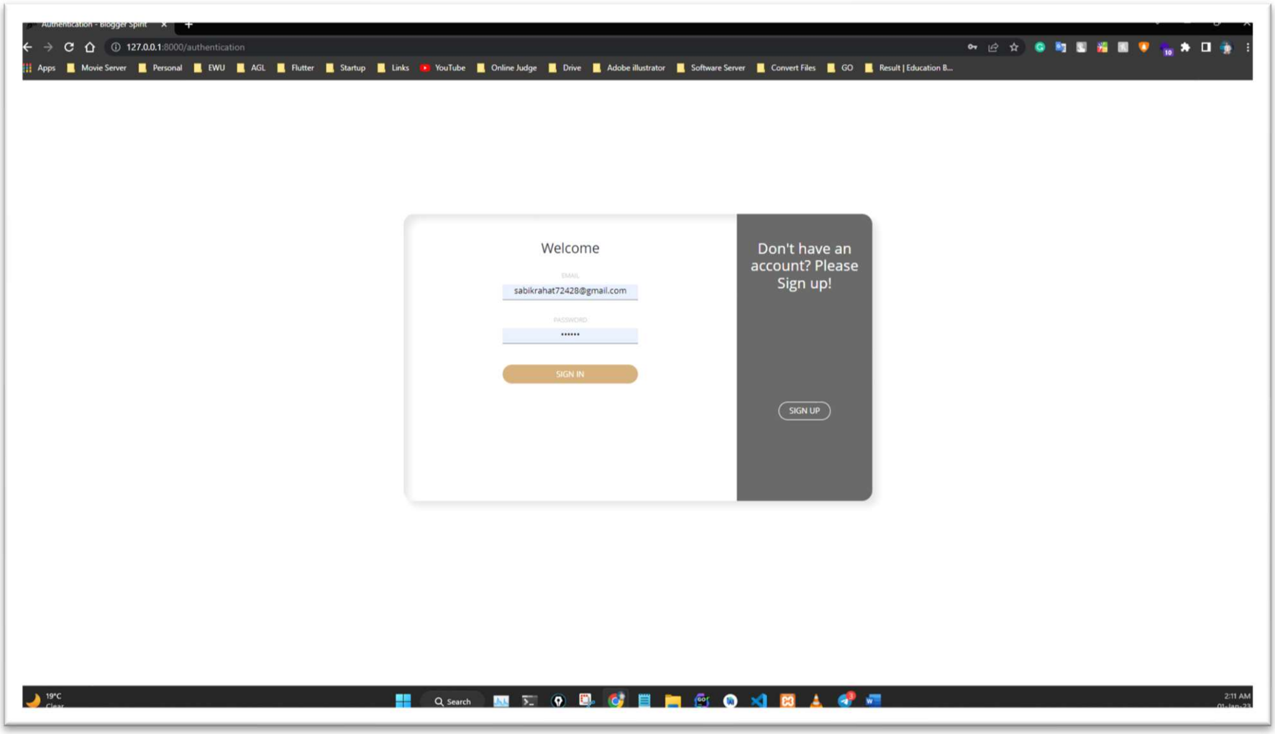

Blogger Spirit
127.0.0.1:8000
Apps
Movie Server
Personal
EWU
AGL
Flutter
Startup
Links
YouTube
Online Judge
Drive
Adobe illustrator
Software Server
Convert Files
GO
Result | Education B...
Blogger Spirit
Home
Write Post
Transfer Point
Feedback
Log out
Search
19°C

Point: 70 Transfered: 10 Received: 0

Dashboard

Md. Sabik Alam Rahat

Dec. 31, 2022, 8:10 p.m.

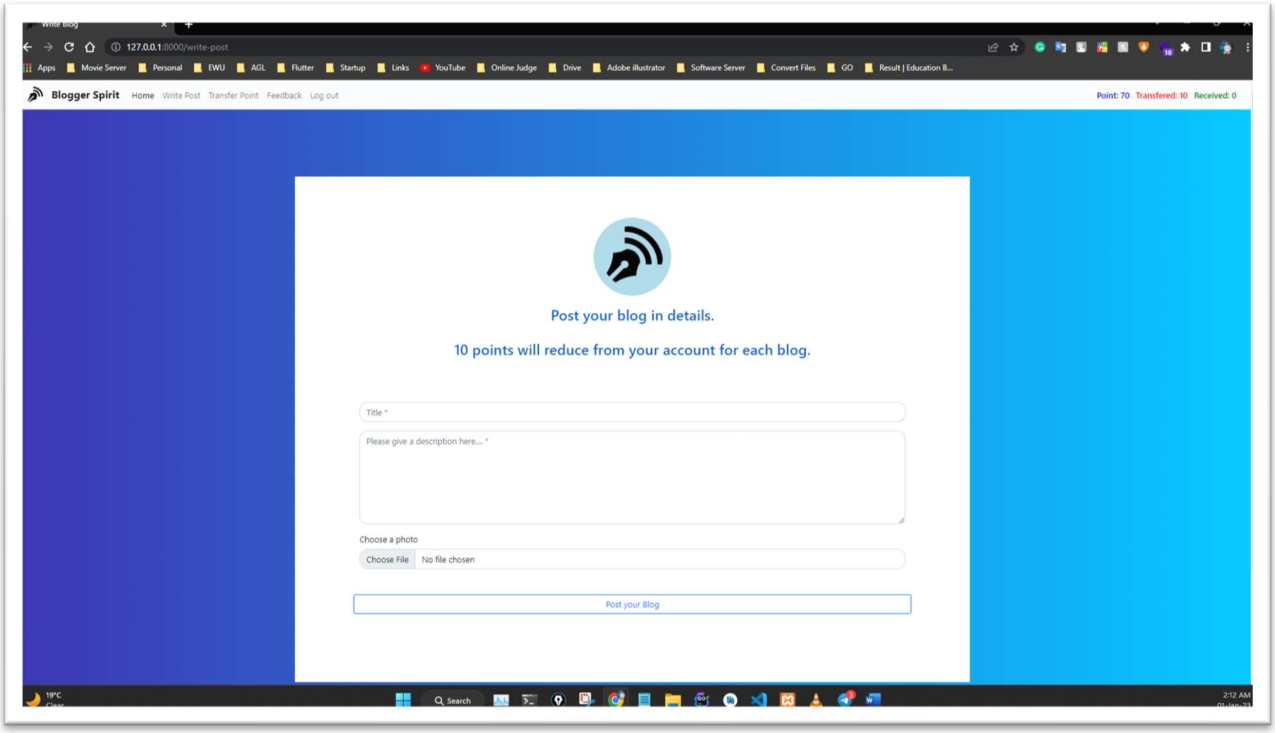

Authentication - Blogger Spirit
127.0.0.1:8000/authentication
Apps
Movie Server
Personal
EWU
AGL
Flutter
Startup
Links
YouTube
Online Judge
Drive
Adobe illustrator
Software Server
Convert Files
GO
Result | Education B...
SIGN IN
SIGN UP
Search
19°C

Welcome

EMAIL: sabikrahat72428@gmail.com

PASSWORD: ••••••

Don't have an account? Please Sign up!


127.0.0.1:8000/write-post
Blogger Spirit
Home
Write Post
Transfer Point
Feedback
Log out
Point: 70
Transfered: 10
Received: 0
Choose File
Post your Blog

Post your blog in details.

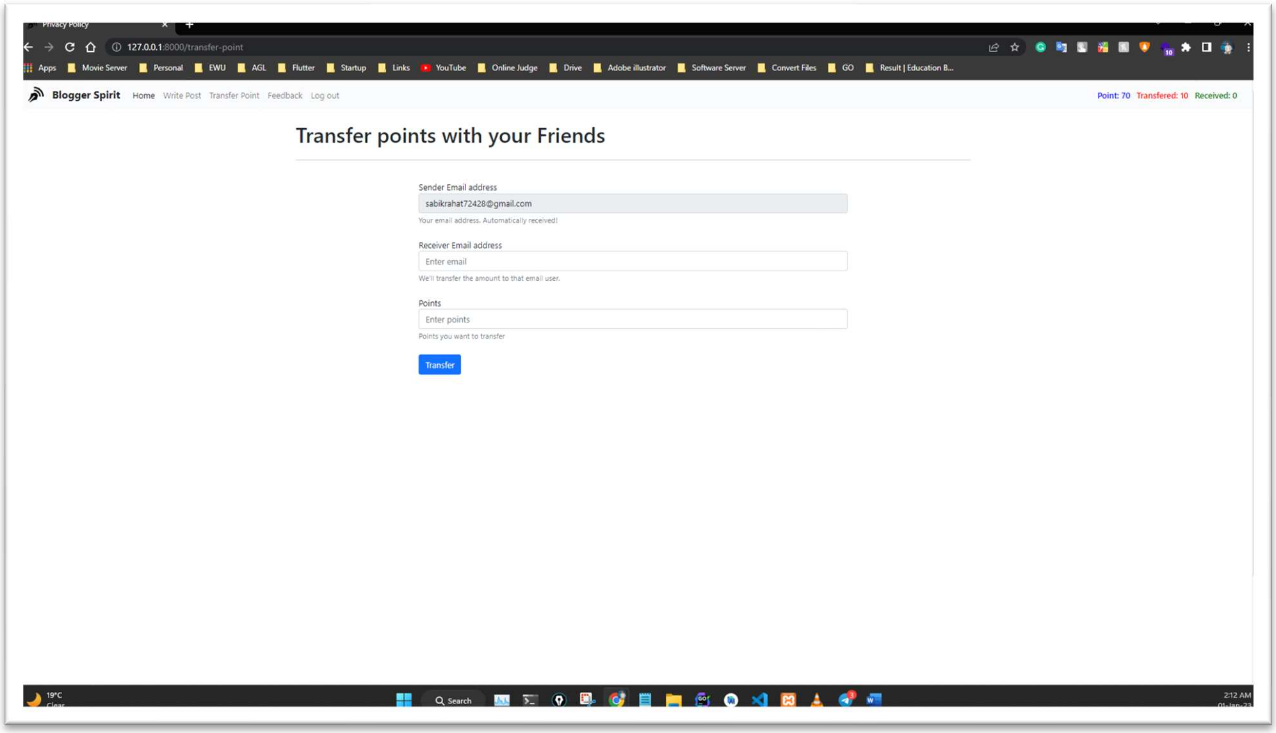
10 points will reduce from your account for each blog.

Title *

Please give a description here... *

Choose a photo

No file chosen


127.0.0.1:8000/transfer-point
Blogger Spirit
Home
Write Post
Transfer Point
Feedback
Log out
Point: 70
Transfered: 10
Received: 0
Transfer

Transfer points with your Friends

Sender Email address

sabikrahat72428@gmail.com

Your email address. Automatically received!

Receiver Email address

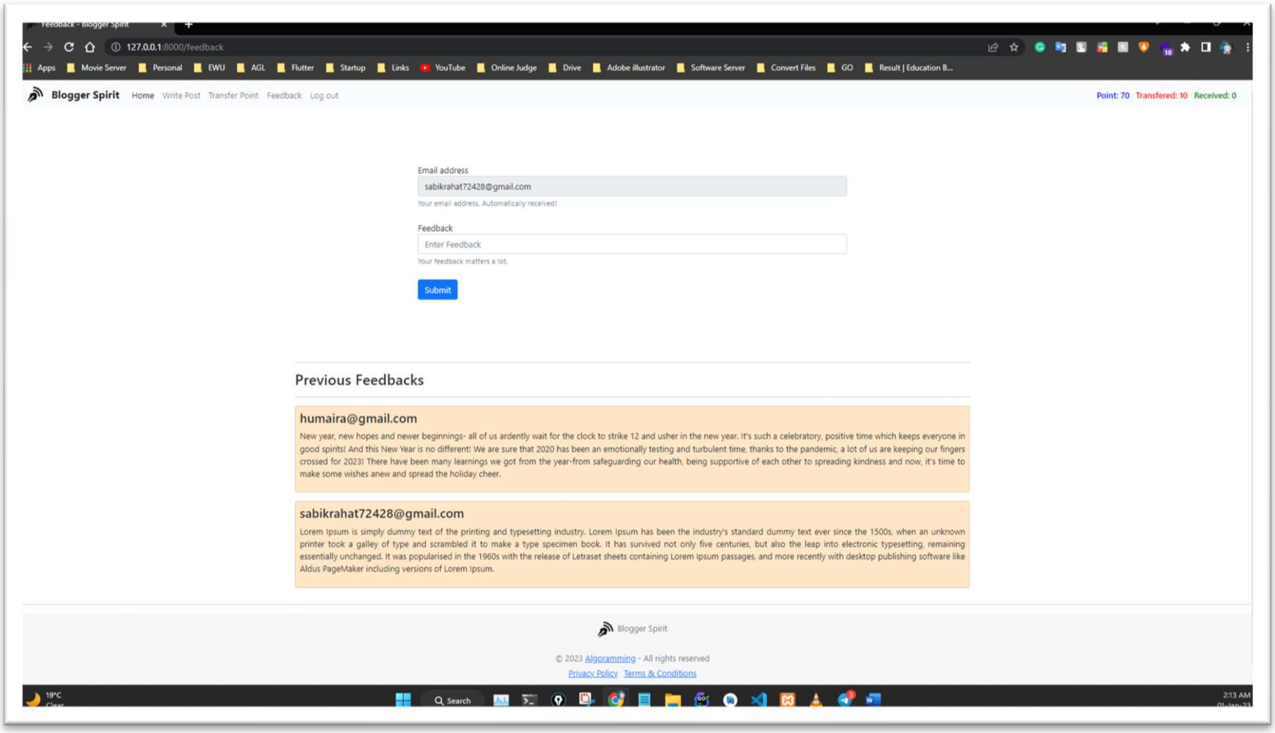
Enter email

We'll transfer the amount to that email user.

Points

Enter points

Points you want to transfer


Feedback - Blogger Spirit
127.0.0.1:8000/feedback
Apps
Movie Server
Personal
EWU
AGL
Flutter
Startup
Links
YouTube
Online Judge
Drive
Adobe illustrator
Software Server
Convert Files
GO
Result | Education B...
Blogger Spirit
Home
Write Post
Transfer Point
Feedback
Log out
Point: 70
Transfered: 10
Received: 0
Submit
19°C
Search
2:13 AM

Email address

sabikrahat72428@gmail.com

Your email address. Automatically received!

Feedback

Enter Feedback

Your feedback matters a lot.

Previous Feedbacks

humaira@gmail.com

New year, new hopes and newer beginnings- all of us ardently wait for the clock to strike 12 and usher in the new year. It's such a celebratory, positive time which keeps everyone in good spirits! And this New Year is no different! We are sure that 2020 has been an emotionally testing and turbulent time, thanks to the pandemic, a lot of us are keeping our fingers crossed for 2023! There have been many learnings we got from the year-from safeguarding our health, being supportive of each other to spreading kindness and now, it's time to make some wishes anew and spread the holiday cheer.

sabikrahat72428@gmail.com

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Blogger Spirit

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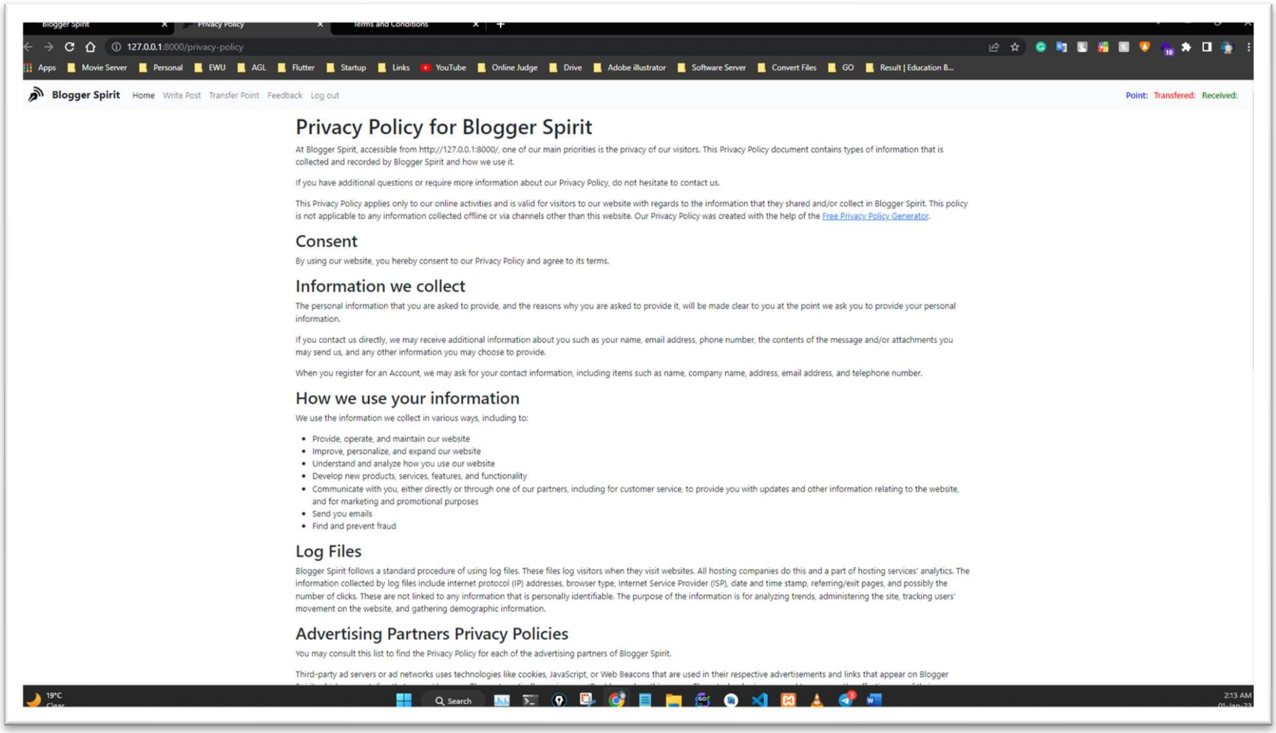
Blogger Spirit
Privacy Policy
Terms and Conditions
127.0.0.1:8000/privacy-policy
Apps
Movie Server
Personal
EWU
AGL
Flutter
Startup
Links
YouTube
Online Judge
Drive
Adobe illustrator
Software Server
Convert Files
GO
Result | Education B...
Blogger Spirit
Home
Write Post
Transfer Point
Feedback
Log out
Point:
Transfered:
Received:
19°C
Search
2:13 AM

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- Improve, personalize, and expand our website
- Understand and analyze how you use our website
- Develop new products, services, features, and functionality
- Communicate with you, either directly or through one of our partners, including for customer service, to provide you with updates and other information relating to the website, and for marketing and promotional purposes
- Send you emails
- Find and prevent fraud

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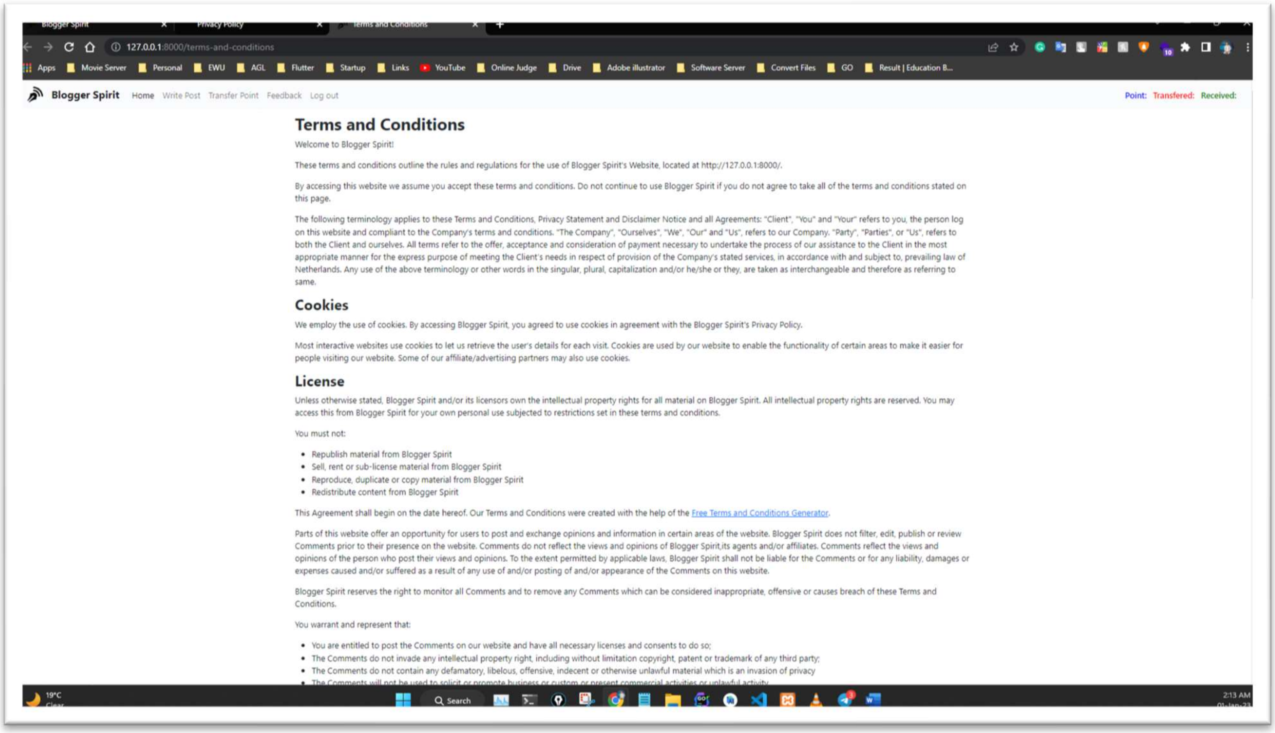

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- The Comments will not be used to solicit or promote business or custom or present commercial activities or unlawful activity.