“NULLBOX”
An Social Media Website Using Django Framework

BY

SHAMRAJ AFRIN MIM
ID:171-15-9008

This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

Supervised By

Ms. Rubaiya Hafiz
Senior Lecturer
Department of CSE
Daffodil International University

Co-Supervised By

Nusrat Jahan
Senior Lecturer
Department of CSE
Daffodil International University

DAFFODIL INTERNATIONAL UNIVERSITY
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APPROVAL

This project titled "**NULLBOX**" submitted by SHAMRAJ AFRIN MIM ID No: 171-15-9008 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on December 2021.

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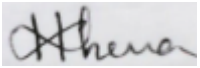

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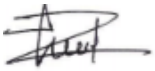

Internal Examiner

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Senior Lecturer
Department of Computer Science and Engineering
Faculty of Science & Information Technology
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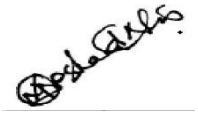


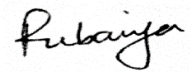
External Examiner

Dr. Md Arshad Ali
Associate Professor
Department of Computer Science and Engineering
Hajee Mohammad Danesh Science and Technology University

DECLARATION

I hereby declare that, this project has been done by us under the supervision of **Ms. Rubaiya Hafiz**, **Lecturer**, and **Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

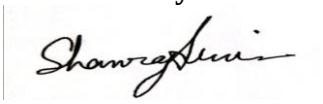
Supervised by:



_____

Ms. Rubaiya Hafiz
Senior Lecturer
Department of CSE
Daffodil International University

Submitted By



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Shamraj Afrin Mim
ID:171-15-9008
Department of CSE
Daffodil International University

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I grateful and wish our profound indebtedness to **Ms. Rubaiya Hafaize**, Lecturer, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of *"Mobile & Web Application"* to carry out this Project. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts, and correcting them at all stages have made it possible to complete this Project.

I would like to express our heartiest gratitude to Prof. Dr. Touhid Bhuiyan, Head of, Department of CSE, for his kind help to finish my Project and to other faculty members and the staff of the CSE department of Daffodil International University.

I would like to thank my entire course mate in Daffodil International University, who took part in this discussion while completing the course work.

Finally, I must acknowledge with due respect the constant support and patients of my parents.

ABSTRACT

My Project titled "NullBox" a Social Media Website created using Django aims for users to swiftly interact with each other as well as gather knowledge. I wanted to work on this idea as Social Media has enormous traction globally. Mobile applications make Social Media easily accessible. Social media is also used for crowdsourcing. As we know, People use social media to stay in touch and interact with friends, family and various communities. Businesses use social applications to market and promote their products and track customer concerns. In business, social media is used to market products, promote brands, connect to customers and foster new business. As a communication platform, social media promotes customer feedback and makes it easy for customers to share their experiences with a company. Businesses can respond quickly to positive and negative feedback, address customer problems and maintain or rebuild customer confidence. So we want to give the users their desired platform where they can swiftly interact with others and help them cope up with the developing world though sharing and gathering knowledge.

TABLE OF CONTENTS

LIST OF FIGURES

Figures **Page No.**

LIST OF TABLES

TABLES NO. **PAGE NO.**

CHAPTER 1

INTRODUCTION

1.1 Introduction

Social media is a collective term for websites and applications that focus on communication, community-based input, interaction, content-sharing and collaboration.

People use social media to stay in touch and interact with friends, family and various communities. Businesses use social media to market and promote their products and track customer concerns.

Social Media is hugely used to market products, promote brands, connect to customers and foster new business. As a communication platform, social media promotes customer feedback and makes it easy for customers to share their experiences with a company. Businesses can respond quickly to positive and negative feedback, address customer problems and maintain or rebuild customer confidence.

In our NullBox site we aim for users to swiftly communicate with each other through posting and sharing their thoughts and interact with others as well as gather knowledge about different sort of things.

For Front-end we have used HTML5, CSS3 and Bootstrap5.As for the Back-end part we have used the Django framework of Python. For the security of the users we have taken the help of Auth0.

1.2 Motivation:

Social media has enormous traction globally and mobile applications make these platforms easily accessible. Some popular examples of general social media platforms include Twitter, Facebook and LinkedIn. There are around 2.3 Billion users in Facebook, 1 Billion users in Instagram, 630 Million users in LinkedIn and 330 Million users in Twitter.

Social media is also used for crowdsourcing which benefits both individuals and businesses by gathering information, opinions, or work from a group of people, usually sourced via the Internet. Businesses use crowdsourcing to get ideas from employees, customers and the general public for improving products or developing future products or services.

Social media is everywhere. Individuals and businesses of all sizes and types use it for their own benefit. It's a critical resource for engaging with customers, getting customer feedback and expanding company visibility.

1.3 Objective:

In this modern age social media is everywhere. Most of the social media does the same work with a little bit of uniqueness. Therefore, we want some uniqueness of our own.

Therefore, we can describe these goals in a list like this:

- Develop the simplest and easiest interface in a website.
- Focus on maximum security of user's data.
- Fully responsive website.
- Adding the ability to fetch data from Wikipedia search results.
- Adding the ability to fetch data from Urban Dictionary search results.
- Adding the ability to fetch data from Stackoverflow search results.
- Easy to communicate and exchange ideas or content.

1.4 Expected Outcome:

'NullBox' is created to provide absolutely accurate and precise outcome. 'NullBox' aims to let people easily communicate and exchange ideas or content. Enable businesses to swiftly publicize their products and services to a broad audience. Help entrepreneurs and artists build an audience for their work. Help users to gather knowledge about the new trends and many more. Give a secure platform for users to share their thoughts.

1.5 Project Management and Finance:

As our project is more like a social media which has to deal with a huge amount of user data and require huge storage space, so for the time being we are using cloud storage to store all the data. As this is the beginning of this site, there won't be much users. So as the users increases we wish to upgrade the storage facility.

1.6 Report Layout:

In this project a full overview of our system and related work and terminologies are given gradually. We recently made a survey on this similar work and try to what is more scope to develop this existing project. In chapter 2 we will describe the challenges and facing problem which is make difficult to us. Another chapter 3 we will describe the three stage of background.

We also describe the requirement specification and try to disclose users demand. In, chapter 4 and 5 we will disclose how we solve the problem and what we use to implement the project.

Finally, in chapter 6 we will remark some concluding and suggestions for future works.

CHAPTER 2
BACKGROUND

2.1 Preliminaries:

NullBox site aims for users to swiftly communicate with each other through posting and sharing their thoughts and interact with others as well as gather knowledge about different sort of things. Here users can easily communicate with each other through posting their thoughts. By using the Tools section, Users can gather knowledge about different sort of things. Through the Wikipedia tool, Users can get a brief overview of the data that can be gained from the Wikipedia website. Through the Urban Dictionary Tool, Users can know about the ongoing meaning of different words which may help them improve their communication skills. Through the Stackoverflow Tool, Users can get the search results of Programming related questions asked by fellow programmers.

2.2 Related Works:

'NullBox' is a web based project where Users can interact with each other and develop their communication skills as well as gather knowledge about different other things. There are many web based projects which gives us the facility to communicate with other users. Every social media sites are unique in their own way, so is our site. Our site gives us the facility to do some unique things such as Wikipedia search, Urban Dictionary search and Stackoverflow search. These features are never seen in just one site.

2.3 Comparative Studies:

There are many social media websites in the world but with the unique idea, we are the first group to introduce it. With the use of the features that is provided by our site, Users can gather knowledge as well as improve their communication skills. We want to help the people who face problems in interacting with other people just because they can't cope up with the current trends, by providing them with necessary room to manoeuvre through the different features that we provide.

2.4 Scope of the problem:

The main objective of our project is to help Users swiftly interact with others. For this, a secure platform is needed which can store a huge amount of data. To insure the security of the Users we have used Auth0 for user authentication and securing the user information. As this is just the beginning of our journey to become a bigger platform we currently have a smaller database to store User's data compared to other big social media platforms. As our platform grows we plan to increase our database storage when it is required.

2.4.1 Business Analysis:

'NullBox' is mainly created to make social interaction of Users easier. As social media platforms have a huge number of users, Businesses of all sizes can get a huge audience. Different businesses can engage with the Users to get their feedback on resources that the users seem interested in.

2.4.2 Time Saving:

'Null-Box' helps the Users to save time while gathering knowledge and interacting with others. Time is a very valuable things. We try to minimize the time required to gather knowledge and interact with others.

2.4.3 Helping Hand:

'NullBox' is a social media platform so it helps the Users interact with others and help those who are facing communication problems through various facilities. Social media sites usually have a huge number of Users so businesses of different size can grow by engaging with the Users.

2.5 Challenge:

There are many popular social media sites with huge numbers of users. We are currently falling behind the race of gaining users as we started the race later than the others. People trend to stay on the platform where a huge number of people are involved. As we are doing a fresh start with a small number of users so very less number of people know that this site even exists. So it may take a while for us to gain massive Users.

CHAPTER 3

REQUIREMENT SPECIFICATION

A Requirement Specification is a collection of all the specifications to be implemented on the product's design and verification. The specification also includes other relevant details required for the product to be developed, verified and maintained. Specifications for requirements state what a device needs to do. The specification of specifications defines what needs to be achieved in order for the company to fulfill its mission.

3.1 Business Process Modeling

Business Process Model shows the utility of the project. In our project, most of the component shows. The Business Process Model is given below.

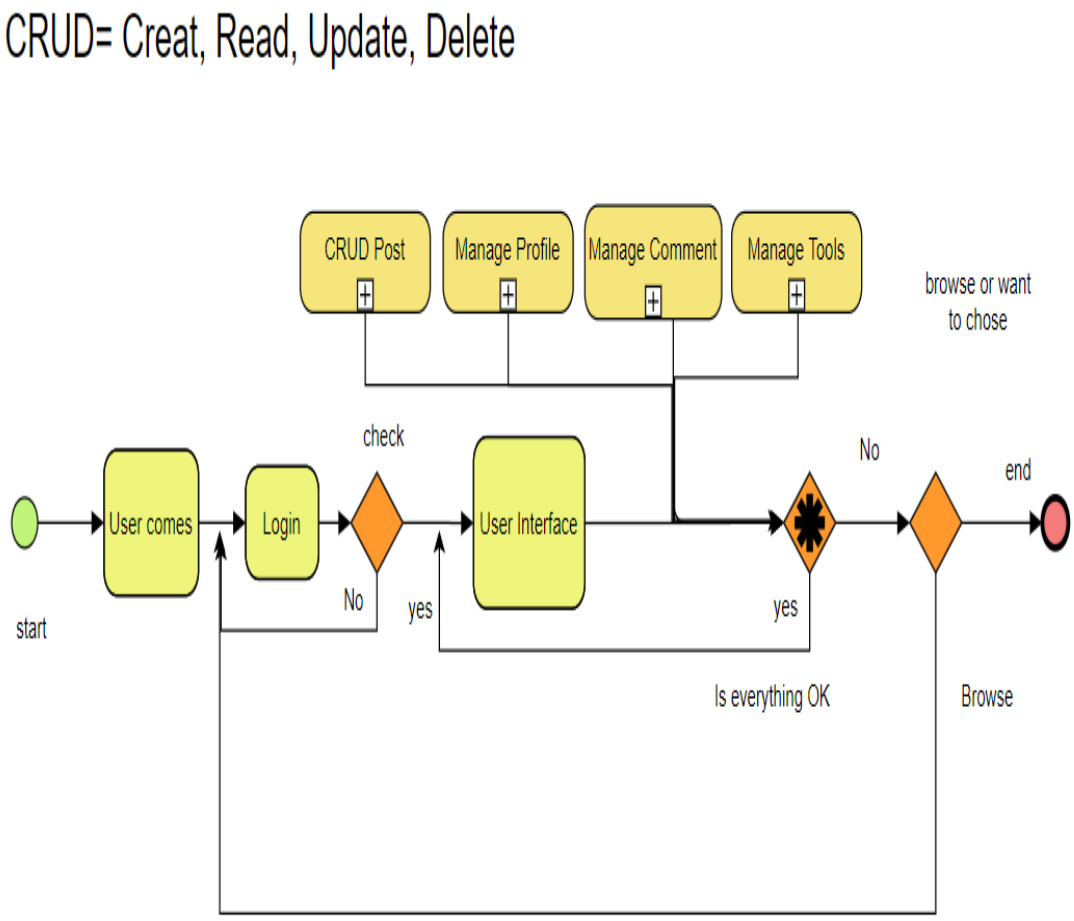

Figure 3.1.1: Business Process Modeling

3.2 Requirement Collection and Analysis

Analysis of requirements covers all activities that evaluate the needs or criteria to be met for a new or updated product or project, taking into account the different stakeholders' potentially contradictory requirements, evaluating, recording, validating and handling software or system requirements. Collecting specifications plays a key role when it comes to this form of project.

Collecting specifications is not only important for the project, but it is also important for the role of project management. The set of specifications is a project's most significant phase. If the project team does not capture all the required criteria for a solution, the project

would run a risk. In the future, this will lead to many conflicts and disagreements. Therefore, recognize the selection of specifications as a primary responsibility of the project team. So that our project specifications are obtained as soon as possible. We began our work then.
Requirements of the software are given below:

- Make the procedure easy for consumer.
- More user friendly for the customer.
- Keep updated with product.

3.2.1 Hardware and Software Requirements of Our System

First, you need to take care of the minimum hardware and software specifications in order to run this program. In addition, there are few software specifications for running this app nicely and effectively.
The system needs all the equipment and systems defined in the development process to improve the new system, such as

- IDE (Atom, Sublime, VS)
- Installed Django Version 3.1.7 on Desktop or Laptop

3.2.2 Analysis

After figuring out the project concept, I have the self-belief to increase this site absolutely. There is a self-belief to do this work as a new process. I researched a lot of the intently related social media apps and I determined to do an Android Application.

SOFTWARE DEVELOPMENT LIFE CYCLE (AGILE):

For its linear sequential criteria, the agile model is a common variant of the system development life cycle model, which means that before the next step starts, each phase must be fully completed. A analysis has been carried out at the end of each stage to assess if the project is on the right direction.
The creation of software is an organized, iterative process. No single "correct" way of doing Agile exists. - Business has its own definition of what constitutes a precious finished product delivered on time is what matters at the end of the day.

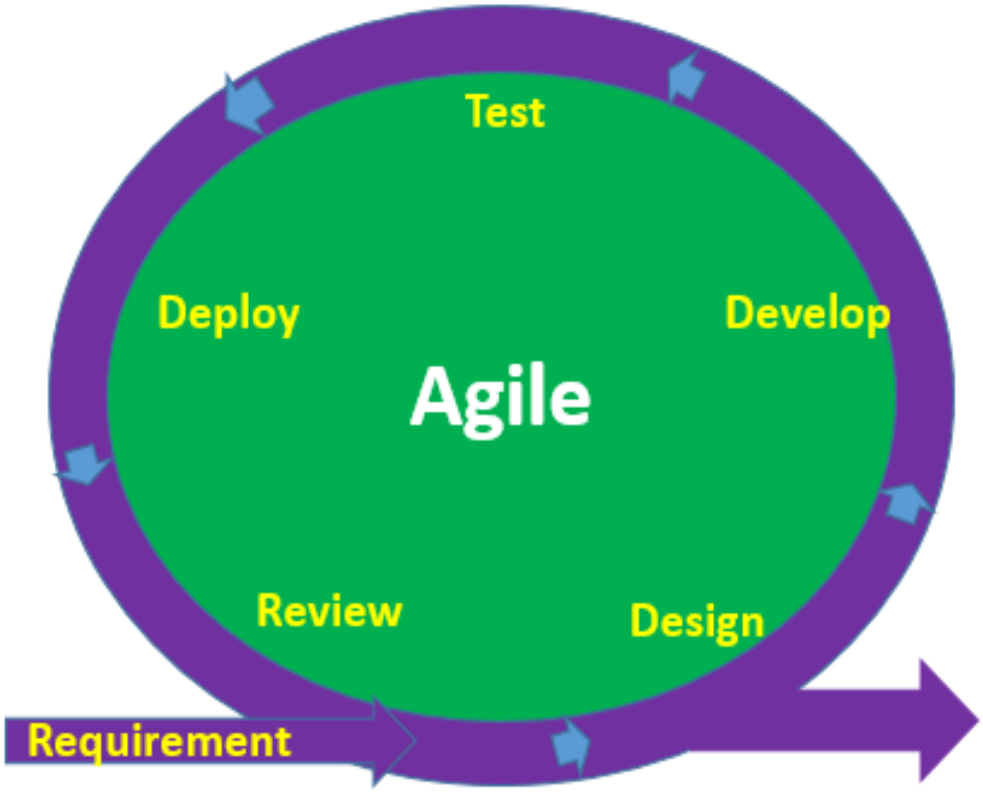

Figure 3.2.1: Software development life cycle (agile)

Flow Chart

A visual representation of measures is the flowchart. It visualizes steps in sequential order and is used extensively to present algorithm, workflow or process flow. In other words, flowchart displays the steps as boxes of different types and their order by linking them to arrows.

The processes of our “NULLBOX” given below:

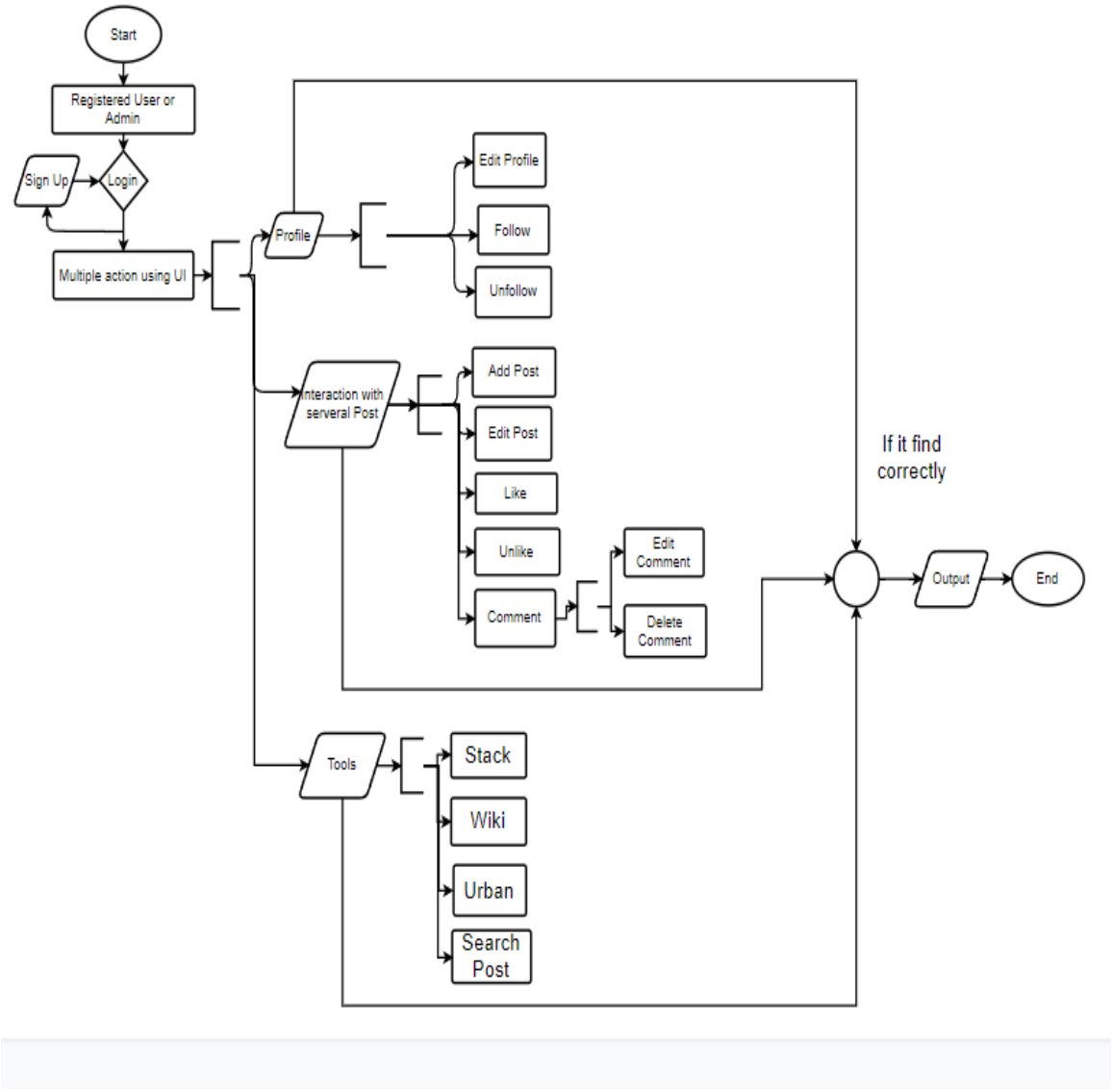

Figure 3.2.2: Flow Chart for NULLBOX

3.3 Use case modeling and description

The device was identified after careful study to be presented to the following actor. The actor involved are:

- User
- Admin

USE CASE FOR Customer

After login Customer can visit the whole area such as blog site, product list but for writing blog and add to cart product they must create their account, then he/she can eligible for that.

Table 3.3.1: Use case description

Use case name:	User
Actor	Admin, Visitor
Pre-condition	None
Primary Path:	Google Auth0
Exceptional Path:	Invalid Gmail

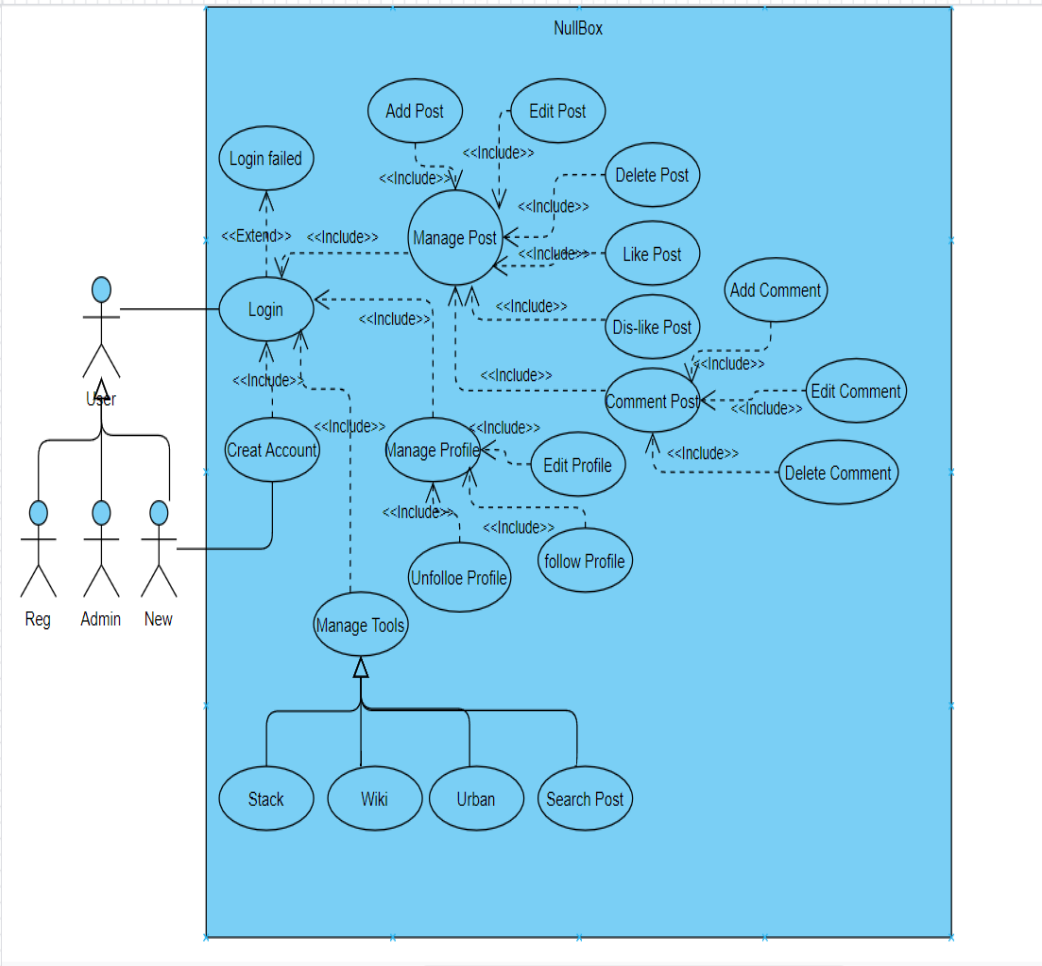

Figure 3.3.1: Use Case Diagram

3.4 Design Requirement

Systems design is the process of defining the architecture, components, modules, interfaces, and data of a system to satisfy specified requirements. In this chapter, where architectural design, use case diagram, flow chart and data flow diagram were included, the overall system design of our application was shown. The entire architecture of this project is user-friendly. New and updated methods of design have been employed for this project. To make it user-friendly, fresh ideas have also been considered. Any form of editing in the future is allowed as time permits.

Architecture Design

The design of the architecture of a system emphasizes the design of the system architecture that determines the structure, behavior, and more system and analysis views. Our application's architectural design are-

- User writes the web address of our application through the web browser.
- This link request goes to the web server.
- Python Files fetch the data from database and the web page is showed to the user.

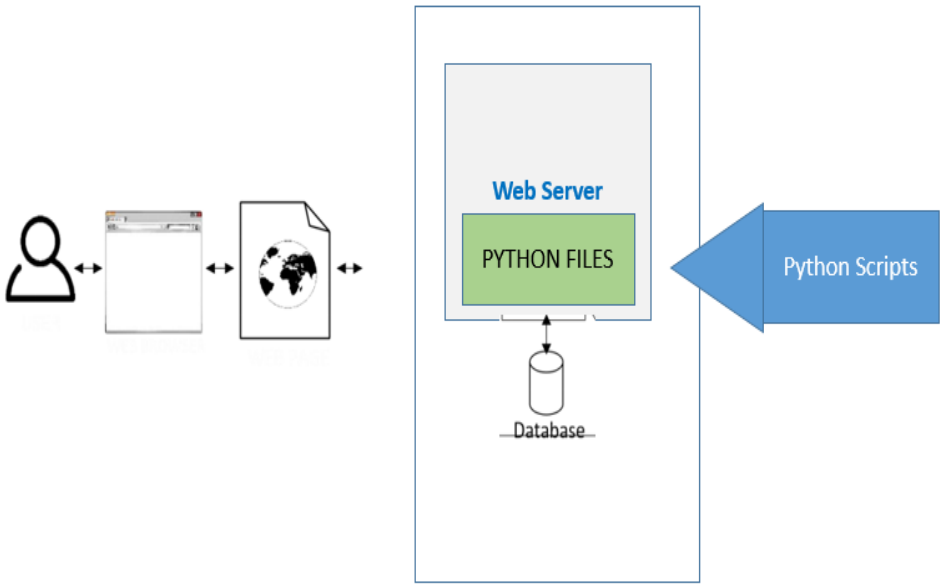

Figure 3.4.1: Architecture Design

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-End-Design

Front-End-Design is for user it is called user interface design. Create basic XML and Java presentation code that compiles the user interface. This design plays an important role for every application. When designing applications, we must consider the usefulness and user friendliness of each application. The design needs to be simple, easy and user friendly. The frontend design must be simple and easy to understand for anyone who visits the application. For the design purpose, we use raw coding in addition using any template or something else. The application Front-end design made by using HTML, CSS.

Front-end tools, which are used in developing our project) system, are given in the following-

- HTML5,
- CSS3,
- JAVA SCRIFT,
- Bootstrap

4.2 Back-end Design

Selecting a correct python-programming framework to build a web application for the business can be a very difficult task because we have so many options available from the past few days.

Value Coders use the system of Django on a daily basis. We use Django's support for SQLite 3.8.3 and later software in the backend architecture for our application. We do not need any configuration to define a path where the database file will be generated and stored.

Python version:

Table 4.2.1: Python Version

Python Version	Maintenance status	First Released	End of support	Release schedule
3.10	bugfix	2021-10-4	2026-10	PEP 619
3.9	bugfix	2020-10-05	2025-10-05	PEP 596
3.8	bugfix	2019-10-14	2024-10-05	PEP 569
3.7	security	2018-06-27	2023-06-27	PEP 537
3.6	security	2016-12-23	2021-12-23	PEP 494

2.7	End-of-lite	2010-07-03	2020-01-01	PEP 373

Django SQLite:

Table 4.2.2: Django SQLite Version

Release	General Availability
3.8.3	2018-06-27
3.8.2	2016-12-23

Django Version:

Table 4.2.3: Django Version

Release Series	Latest Release	End of mainstream support1	End of extended support2
3.1	3.1.4	April,2021	December 2021
3.2	3.0.11	August,2020	April,2021
2.2LTS	2.2.17	December 2,2019	April 2022

4.3 Interaction Design and UX

DESIGN

A big first step towards a good project is project design. In order to accomplish an objective, a project design is a strategic organization of concepts, resources and processes. To avoid pitfalls and provide guidelines to maintain critical aspects of the project, such as the timeline and the budget, project managers depend on a good design.
This project's whole architecture is user-friendly. For this project, new and modified design methods have been employed. Fresh ideas have also been considered to make it user-friendly. Any form of editing is permitted as time permits in the future.

Completion

This project will include details about the WSRS. Each panel will be updated at any moment.

RESOURCE ALLOCATION

Resource allocation is the process of assigning and managing assets in a manner that supports an organization's strategic goals. Resource allocation includes managing tangible assets such as hardware to make the best use of sifter assets such as human capital.

4.4 Implementation Requirements

Application is the implementation, implementation, or execution of a plan, a procedure, or any design, idea, model, specification, standard, or regulation for doing something. Usually, implementation (transition) specifications, specific statements of capabilities or actions are needed only to facilitate the transition from the current state of the organization to the desired future state, but will no longer be required thereafter.

System engineering and software engineering requirements analysis involves certain activities that specify the needs or criteria to be met for a new or altered product or project, taking into consideration the potentially contradictory requirements for the analysis, documentation, validation and management of software or system requirements by the various stakeholders.

NON-FUNCTIONAL REQUIREMENT

There are some non-functional specifications in our framework, which are listed below:

EFFICIENCY REQUIREMENT

Our website enables users to add value to their stakeholders in a targeted way, allowing them to communicate faster, more often and with greater relevance.

RELIABILITY REQUIREMENT

The system can provide consumers with a secure environment with their data kept safe.

USABILITY REQUIREMENT

Our NullBox scheme is planned to be user-friendly and very easy to use.

REQUIREMENTS FOR IMPLEMENTATION

Framework implementation for frontend implementation using Python, CSS, HTML, JAVASCRIPT. For database access, Python will be used. Moreover, DB SQLite 3.8.3 develops the database component. Sensitive web designing is used to render any form of secret compliant with the web application.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

This is the screenshot of our databases of our project. All the types of data, which will be recorded in our system is included. We work in Django supports SQLite 3.8.3 for our databases set.

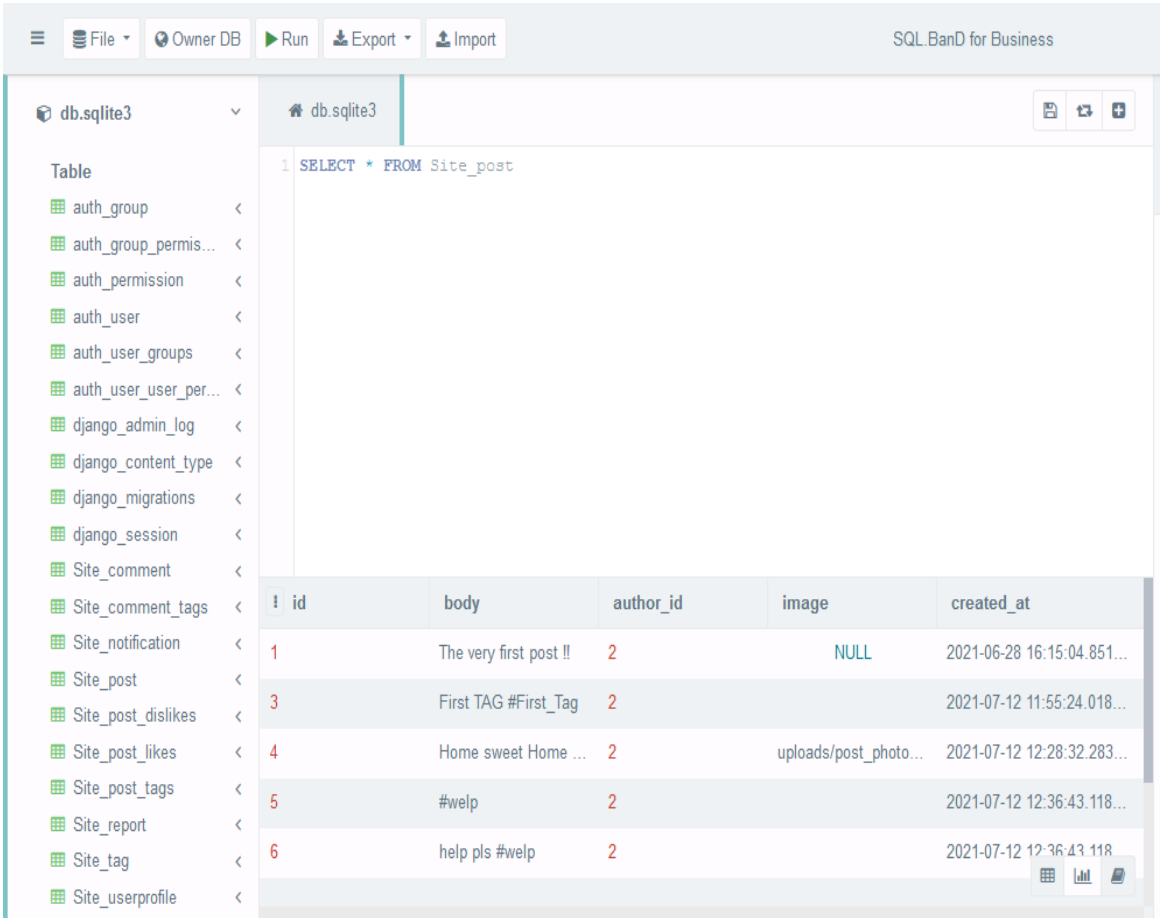

Figure 5.1.1: Screenshot of the database table of the Django supports SQLite 3.8.

5.2 Implementation of Front-end Design

To design the website all pages like unauthenticated homepage, authenticated homepage, post detail, user profile, edit profile and all other pages are given bellow:

UNAUTHENTICATED HOMEPAGE

This is the unauthenticated homepage of our project. This is the page that the unauthenticated users will view after they enter this website.

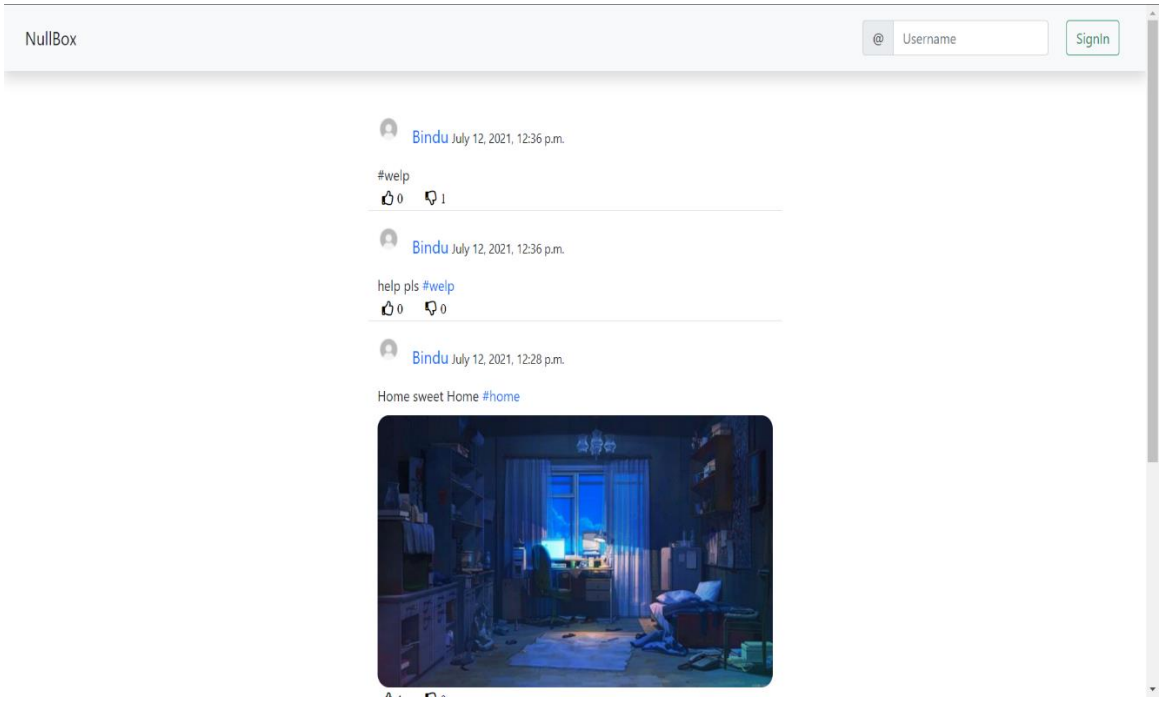

Figure 5.2.1: Screenshot of the unauthenticated homepage of the system

AUTHENTICATION USING AUTH0

This is the Google Auth0 where users can sign-up using their Gmail to get authenticated.

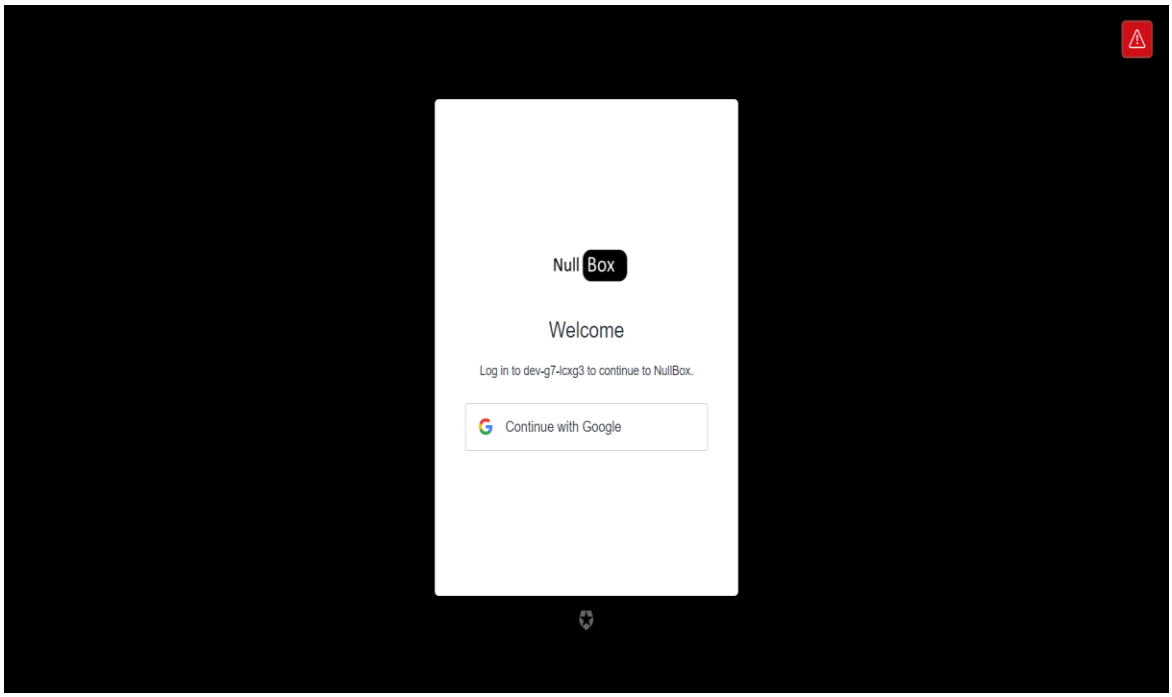

Figure 5.2.2: Screenshot of the Google Auth0 Authentication of the system

AUTHENTICATED HOMEPAGE

This is the Home page for Authenticated users. Here the authenticated users get additional features that unauthenticated users don't.

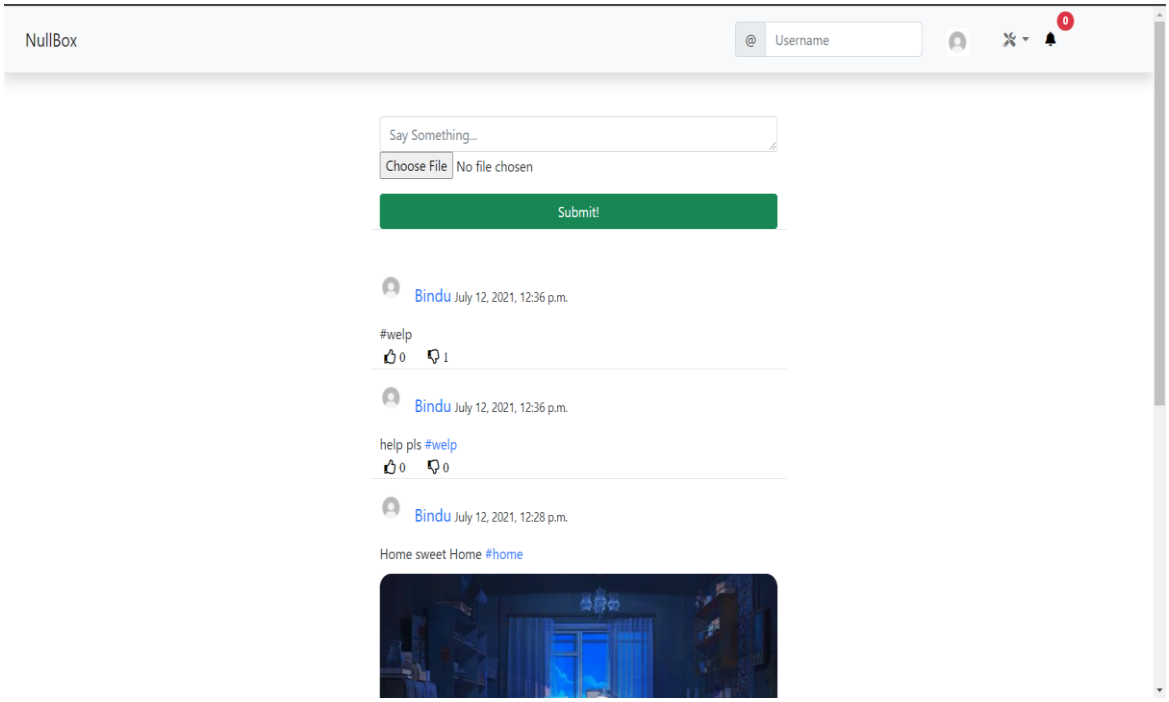

Figure 5.2.3: Screenshot of the authenticated homepage of the system

POST DETAIL

This is the page that is fetched after clicking on a post. This page shows the details of the post.

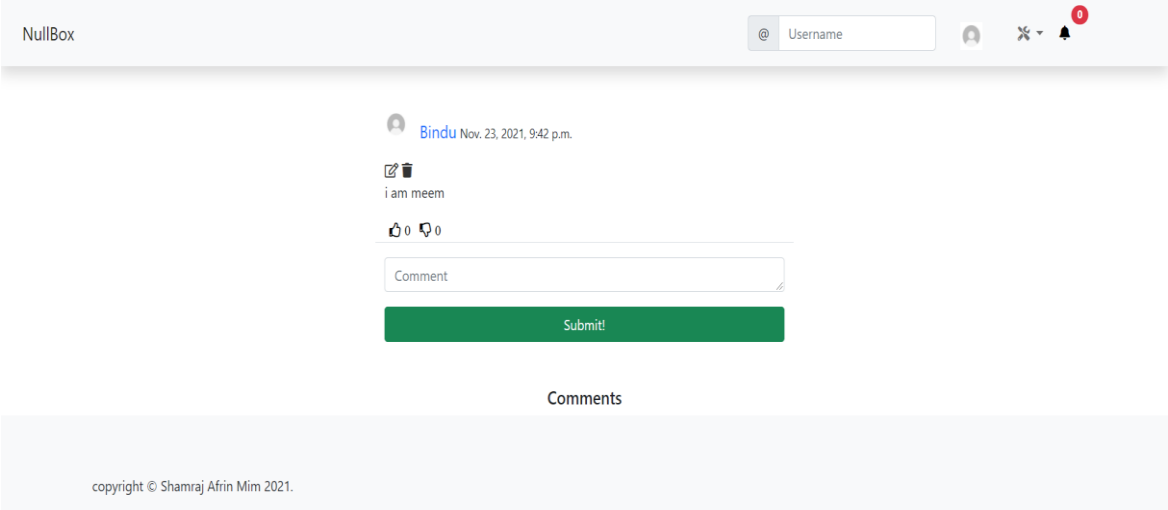

Figure 5.2.4: Screenshot of the Post Detail of the system

USER PROFILE

This page is the profile of a user where we can view the details of the user.

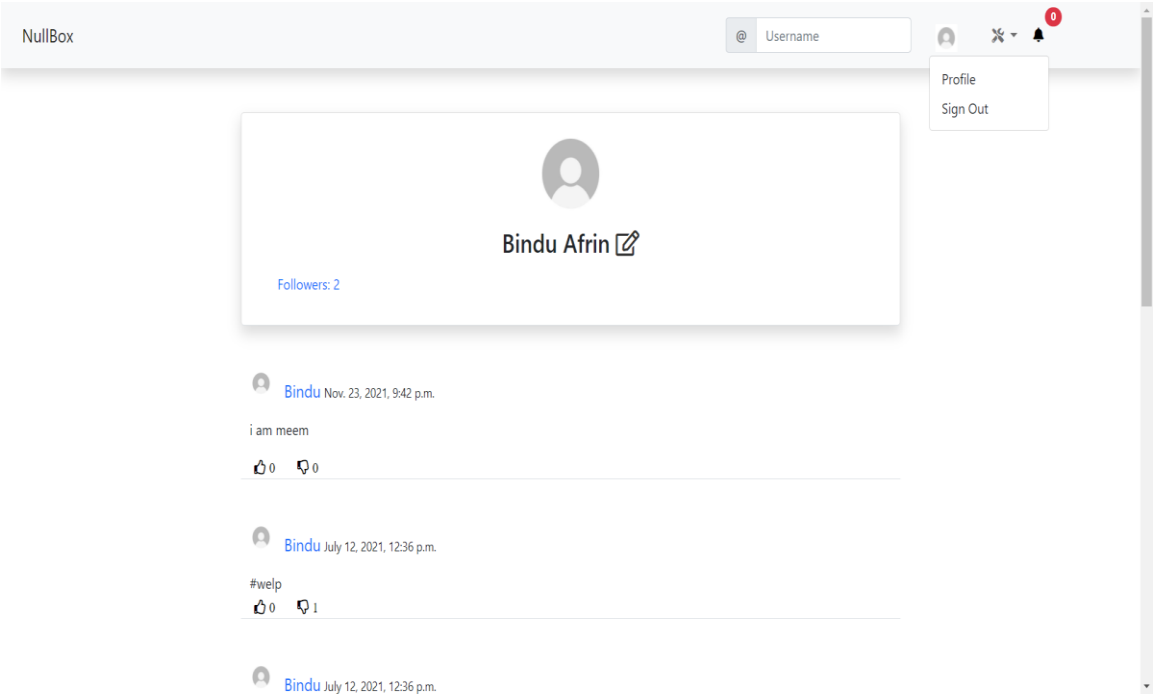

Figure 5.2.5: Screenshot of the User Profile of the system

EDIT PROFILE

This is the page where the user of the profile can edit their profile.

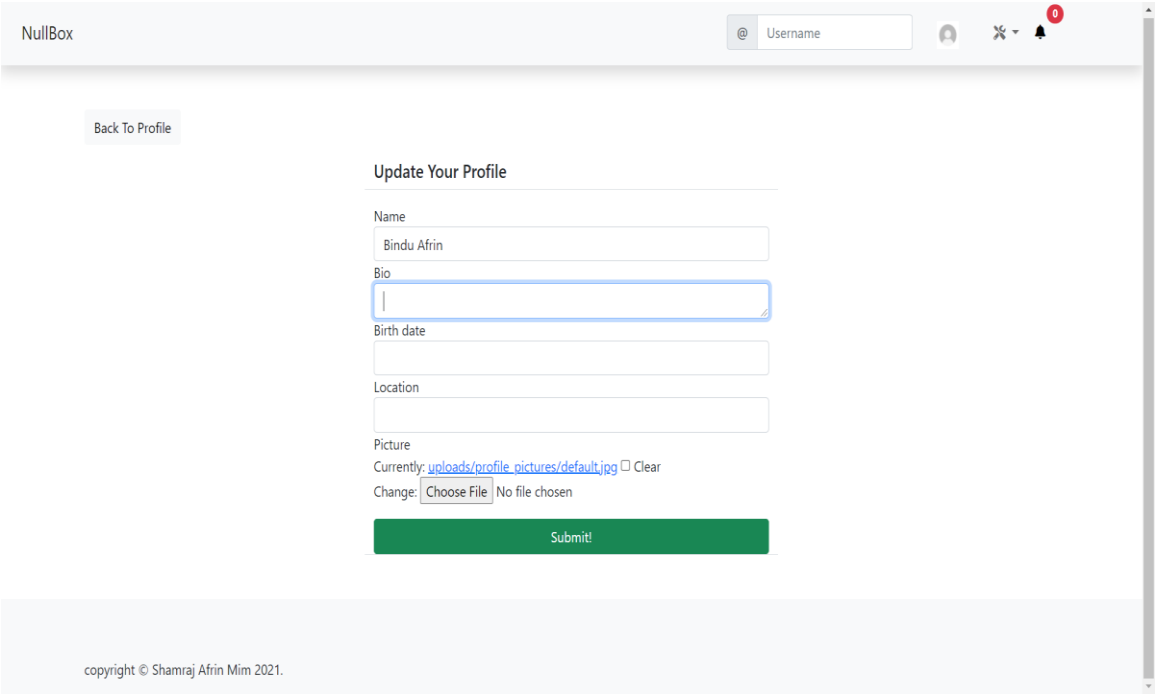

Figure 5.2.6: Screenshot of the Edit Profile of the system

STACKOVERFLOW SEARCH

This page is for the feature stackoverflow search. Here users can search and the results from the stackoverflow website will be viewed.

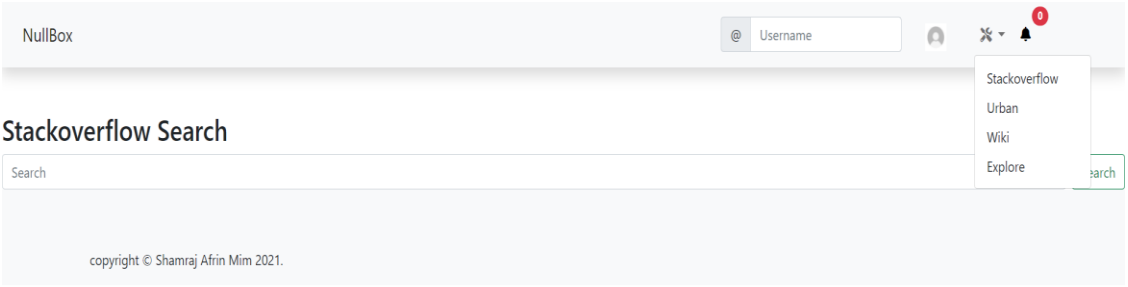

Figure 5.2.7: Screenshot of the Stackoverflow feature of the system

URBAN SEARCH

This page is for the feature urban search. Here users can search and the results from the urban dictionary website will be viewed.

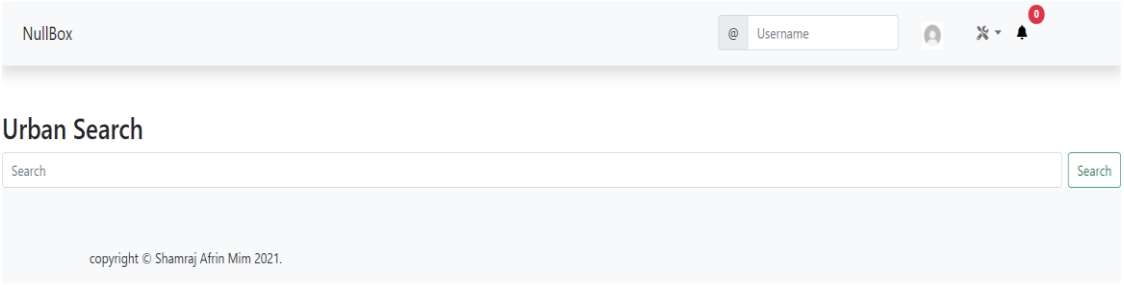

Figure 5.2.8: Screenshot of the Urban feature of the system

WIKIPEDIA SEARCH

This page is for the feature wikipedia search. Here users can search and a few sentences of the search results from the wikipedia website will be viewed.

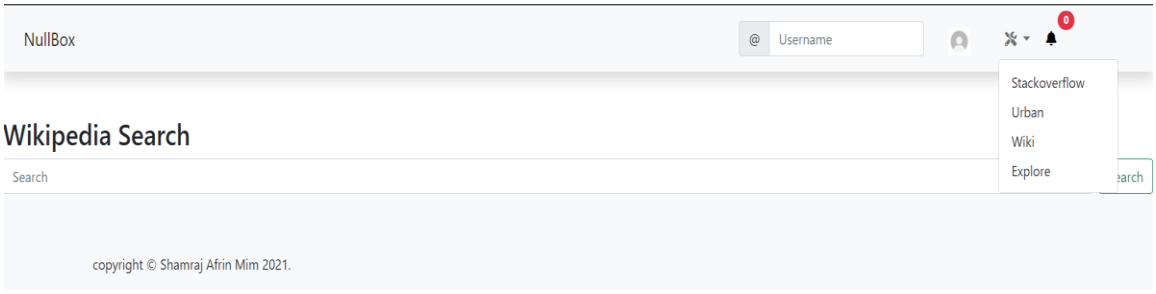

Figure 5.2.9: Screenshot of the Wikipedia feature of the system

EXPLORE

This page is for exploring the posts of different users. Here if we search something then the posts with those keywords in hashtags will be viewed.

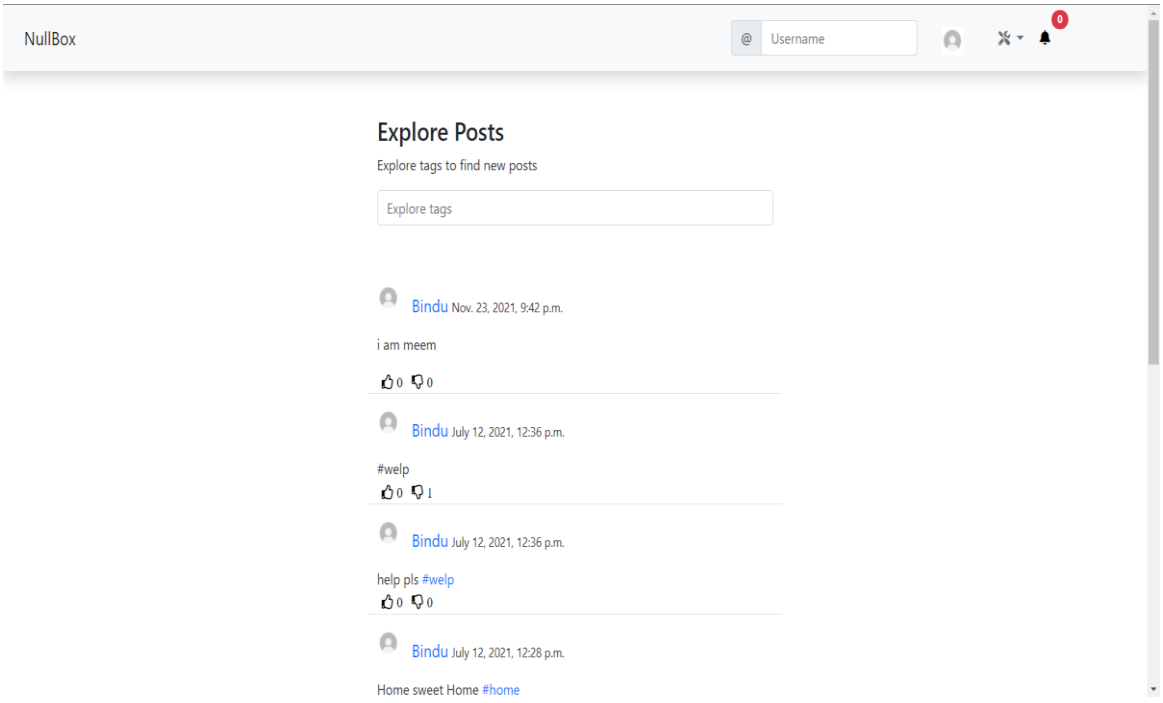

Figure 5.2.10: Screenshot of the Explore posts of the system

NOTIFICATION

The notification button on the navigation bar is for our notification system. By clicking on the notification button we can we the notifications that we received and by clicking on the notification we will be redirected to the location of that notification.

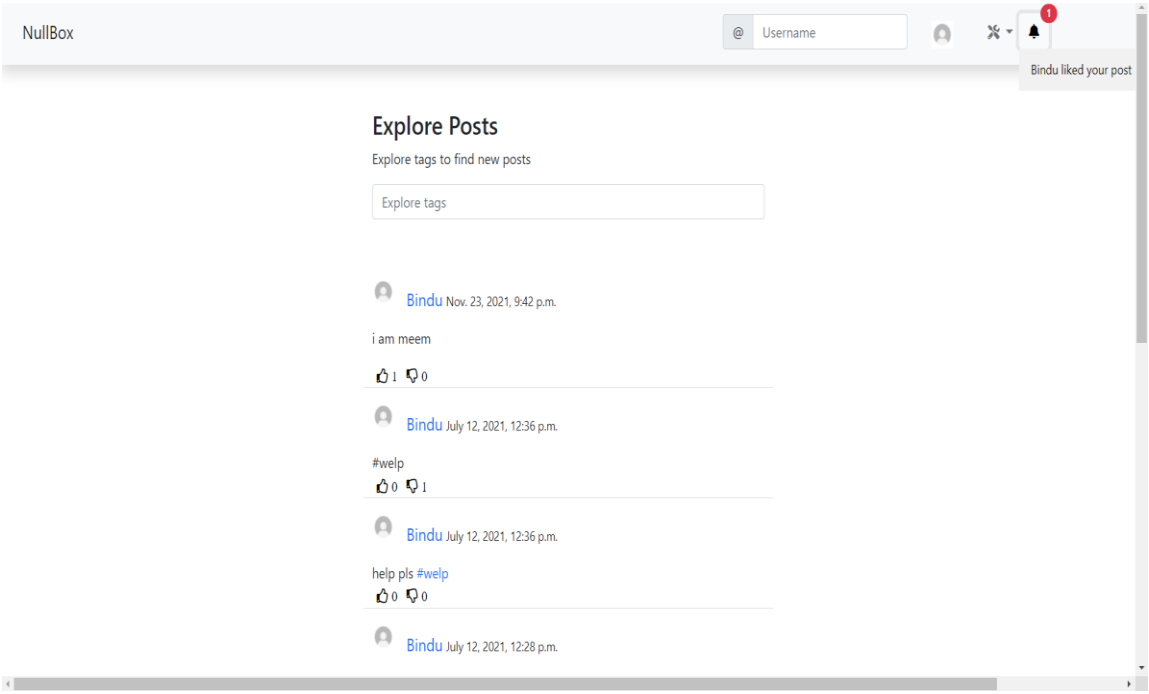

Figure 5.2.11: Screenshot of the Notification of the system

USER SEARCH

This page shows the users that exist with the username that has been searched for.

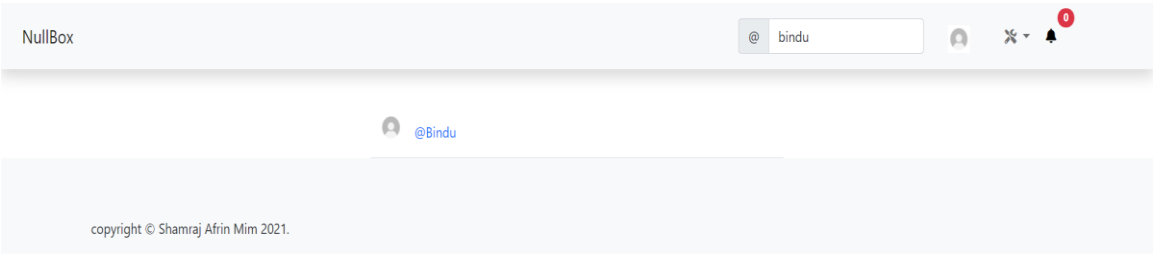

Figure 5.2.12: Screenshot of the User search of the system

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

We consider the "NullBox" system will be integrated helpful, supportable, comfortable, straightforward. This System is useful for users to interact with others and gain knowledge. Anyone can use this site for socializing and gaining knowledge.
We believe "NullBox" System can make a platform for users to cope up with the current trends. With that, they can gain sufficient knowledge to survive in the modern world. Social media usually aims for connecting people with each other. Our goal is to connect people with each other as well as provide them with sufficient knowledge.
I build a very efficient and simple application for everyone. I cheek that this system performs realistically well for the user to interact with others. Social media has enormous traction globally. Day by day peoples are using social media for mostly everything. From education to business everything can to done using social media. Social media is also used for crowdsourcing. As a result users can gain many benefits from it. It was a great journey for me. I learned many things while making this project.

6.2 Scope for Further Developments

Gradually, our project work will proceed. We are going to make an Android & IOS based software framework. This social media can be used very quickly as smartphone applications. We will upgrade our framework day by day and aim to post it online and make it easy for people to access this platform. Later on, we will add more features that users benefit from it. We are still going to try to overcome the extra tiny programs.

We may want to have carried out some more work; we need to maintain with it.

- Convert it into mobile both IOS and android Application by firebase, dart language and it framework flutter
- Give more security in future.
- Add more features that are interesting.
- Increased the accuracy of system performance.

6.3 Limitations

The limitation of our project are given below

- CSS design is limited.
- Limited Database facility

APPENDICES

Appendix A: Project Reflection

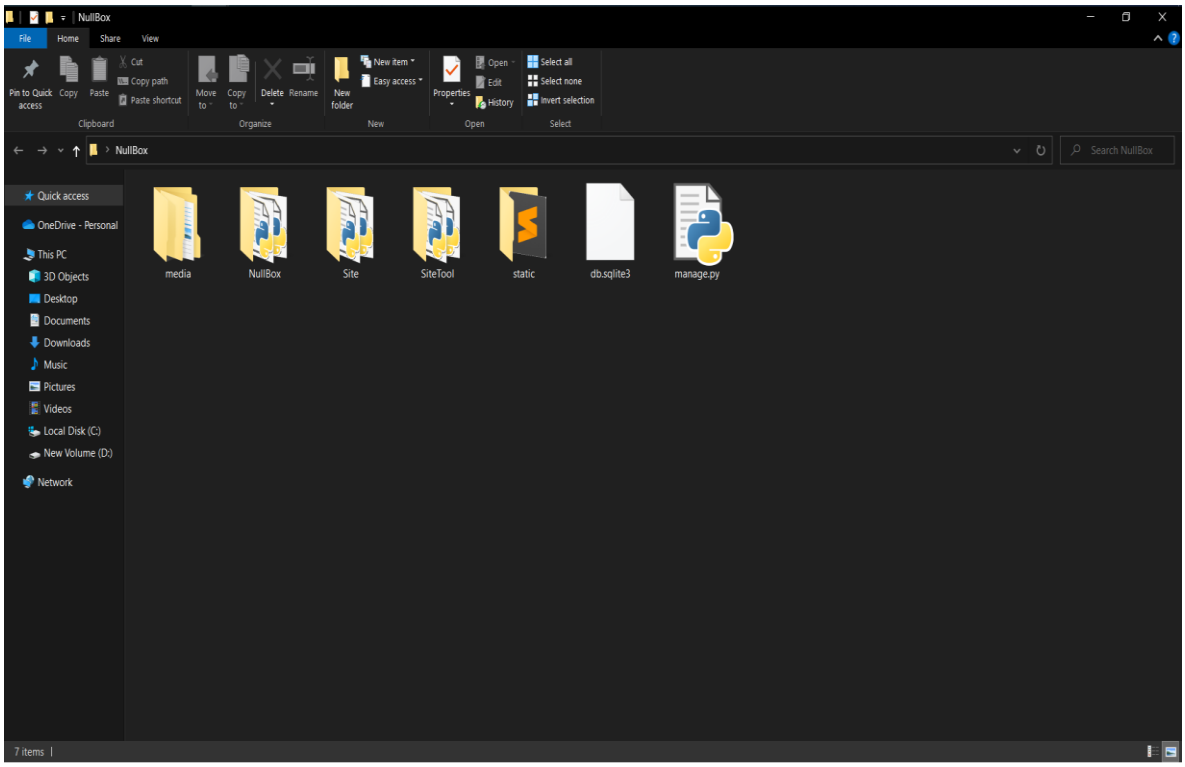

Figure A.1: Project Development Systematically

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"NULLBOX" An Social Media Website Using Django Framework BY SHAMRAJ AFRIN MIM ID:171-15-9008 This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering Supervised By Ms. Rubaiya Hafiz Senior Lecturer Department of CSE Daffodil International University Co-Supervised By Nusrat Jahan Senior Lecturer Department of CSE Daffodil International University DAFFODIL INTERNATIONAL UNIVERSITY DHAKA, BANGLADESH December 2021 APPROVAL This project titled "NULLBOX" submitted by SHAMRAJ AFRIN MIM ID No: 171-15- 9008 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on December 2021. BOARD OF EXAMINERS ---------- Prof. Dr. Touhid Bhuiyan Head of Dept. of CSE Department of Computer Science and Engineering Faculty of Science & Information