





# Republic of the Philippines CEBU TECHNOLOGICAL UNIVERSITY ARGAO CAMPUS

Ed Kintanar Street, Lamacan, Argao Cebu Philippines Website: http://www.argao.ctu.edu.ph Phone No.: (032) 485-8290/485-5109 loc 1700Fax. No.: (032)4858-290

#### Stack64

Question-and-answer Web-based Platform

Anuada, John Lyndo Vero Villarta, Lexter Cavan















#### **Introduction**

#### What is Stack64?

Stack64 is a question-and-answer web-based platform that users in perplexity may seek solutions to their programming questions from other users. Users may also share their programming questions by posting it within the platform.

#### Why Stack64?

Choosing the right platform name is a significant process for it represents the entire system. In order to achieve this, relevant terminologies must be observed.

A "stack" refers to a data structure that stores and manages a collection of items. Stacks are widely used in computer science and have various applications in algorithms, memory management, and parsing.

As for where 64 came from, 64-bit technology has become the standard for modern computing due to its ability to handle larger amounts of memory and perform more complex calculations. This represents improved performance and compatibility with modern software applications, making it a fundamental part of contemporary computer systems.

With that being said, Stack64 is a representation of fast management for collection of information.

#### What is the objective of Stack64?

Stack64 will serve as the bridge that will connect you to other users so that you will be able to not only find solutions to your programming questions but as well as be able to impart your knowledge to other users.

Stack64's goal is to provide authentic source of programming related information to all users as much as possible.

How will the developers address the authenticity of programming related information to all users?

Providing authentic source of information will be the major challenge for the developers since the developers has no full control to user's activity online. In order to address this issue, the developers will implement a system for all users called Reputation.

#### What is Reputation system in Stack64?

Reputation is a system in Stack64 that will determine user's behavior within the platform and in the community. Users can achieve good reputation by mainly gaining points from providing relevant and helpful solutions to the questions posted by users.

Users can gain certain points as follows:

- Achieving approves will give user's account +20 points
- Approved reports will give the reporter +15 points
- Commenting answer to a query will give user's account +15 points
- Posting a query will give user's account +10 points
- Purchasing items in the shop will give user's account +5 points

•

User who violates rules and regulations will cause their account to lose points as follow:

- Any violations (report) will deduct user's account reputation by 45 points
- Disapproves will deduct user's account reputation by 20 points

Certain accumulated points will unlock features and titles as follows:

- Reaching 10,000 points will allow users to report posts or comments and will be awarded with a Beginner title
- Users reaching 20,000 points will allow users to approve an answer and will be awarded with a bronze title
- Users reaching 40,000 points will allow users to post or take part to commissions and will be awarded with a silver title
- Points gained from approves will be doubled for all users over 70,000 points and will be awarded with a gold title
- Top 3 users reaching over 110,000 points will be included in the leaderboards (Learn from the best section) and will be awarded with a Stacked title

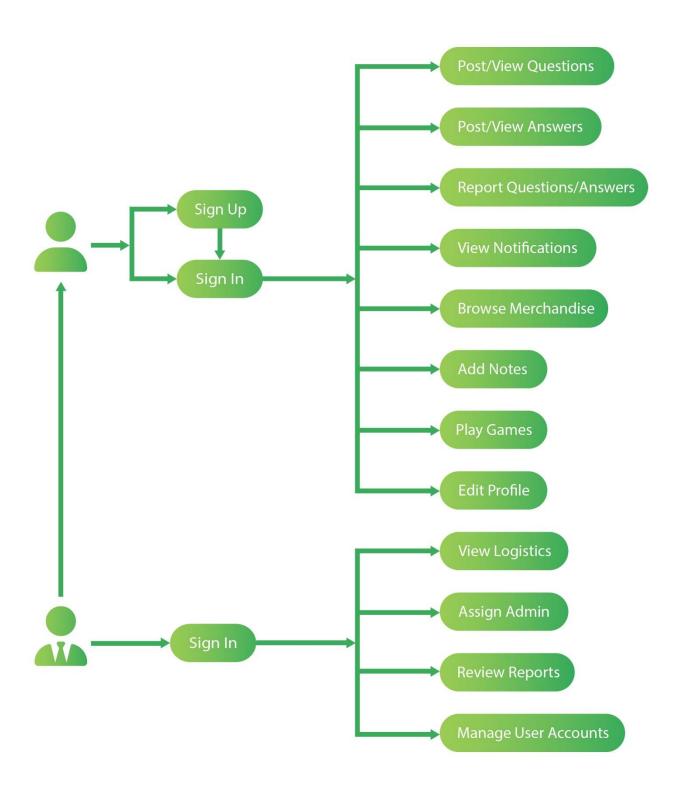
With this kind of system, authenticity of the information and a healthy and strong community will be assured.

#### Scope and Limitations of Stack64

This study will provide a platform to those users, especially among students, who are in perplexity.

The study includes in its scope such as asking and submitting questions and providing answer to a question but does not involve those private/direct messages and replies to answers.

### **Stack64 Use Case Diagram**



# **Functional Requirements**

Requirement	Description
Account Authentication	This part of the system allows user to create their own account and sign in within the platform.
Submitting Post and Answers	This section of the system allows user to ask and submit their programming related questions.
Reporting Posts and Answers	This part of the system allows user to submit a question or answer report in regards to the rules and violations of the platform.
User Account Management	This section of the system allows user to change their profile and account information.
Merchandising	This part of the system allows user to buy exclusive Stack64 products and Stackcoins (Website currency).
Study Space	This section of the system allows user to take down notes and check daily short quizzes.
Game	This part of the system allows user play games prepared by the developers of Stack64.
Reputation System	Reputation is a system in Stack64 that will determine user's behavior within the platform. Users can achieve good reputation by mainly gaining points from providing relevant and helpful solutions to the questions posted by users.
Admin Account Assignment	This part of the system allows admin to assign (create) new account for a Stack64 employee.
Review Reports	This section of the system allows admin to approve and disapprove reports submitted by the users.
Account Management	This part of the system allows admin to deactivate, activate, and delete user accounts.

#### **List of Modules**

Stack64 provides various of functionalities, these includes:

#### Admin & User:

1. Account authentication

#### User:

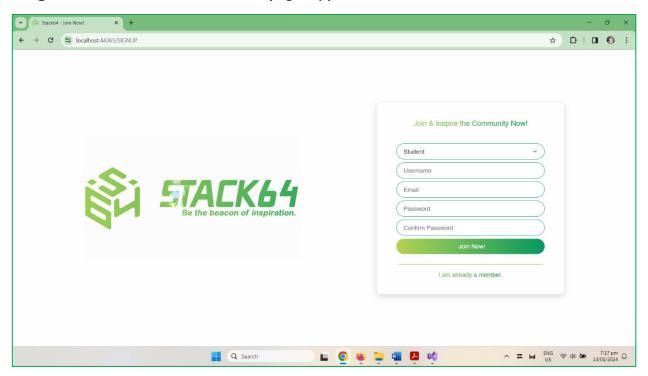
- 1. Users are able to see online accounts
- 2. Users are able to submit and answer questions.
- 3. Users are able to report questions and answers
- 4. User account management
- 5. Merchandising
- 6. Study Space
- 7. Game (Bird Flew)
- 8. Reputation System

#### Admin:

- 1. Activate/assign user admin
- 2. Manage accounts (Delete/deactivate user account)
- 3. Review and filter reports

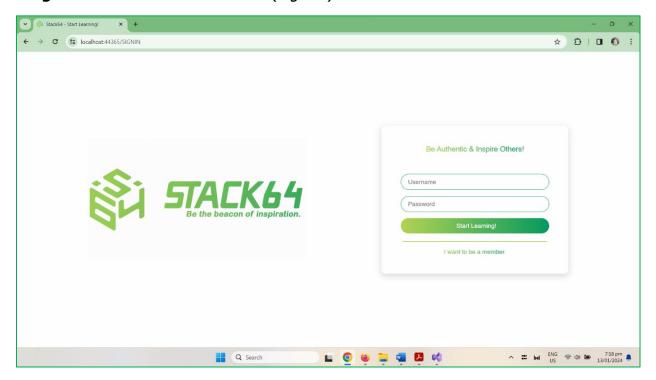
# **Output of the Study**

Figure 1. Account Authentication (Sign Up)



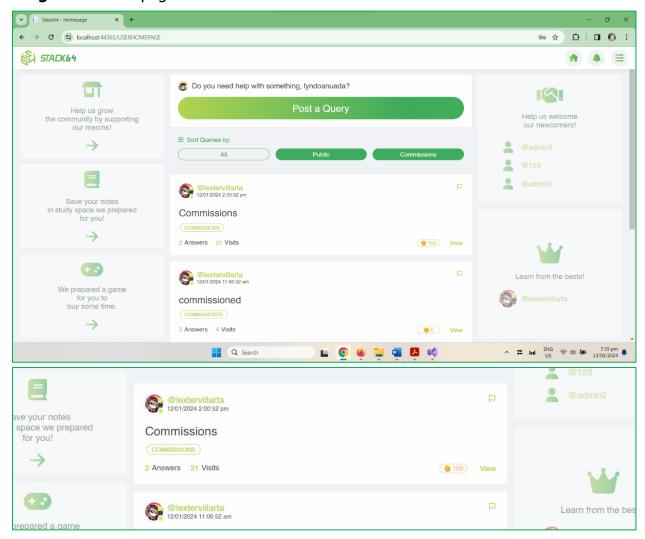
This part of the system allows user to create their own account to use within the platform.

Figure 2. Account Authentication (Sign In)



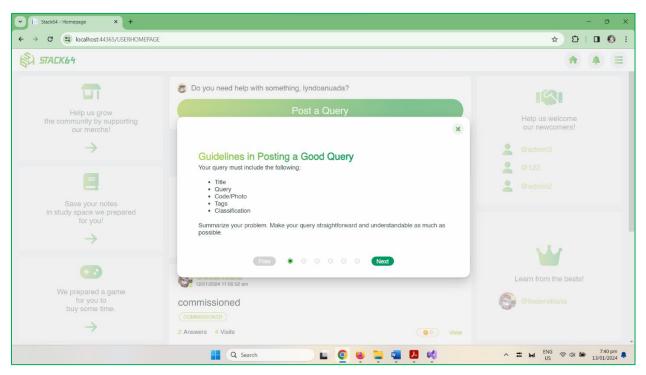
This section allows user to sign in their account within the platform.

Figure 3. Homepage



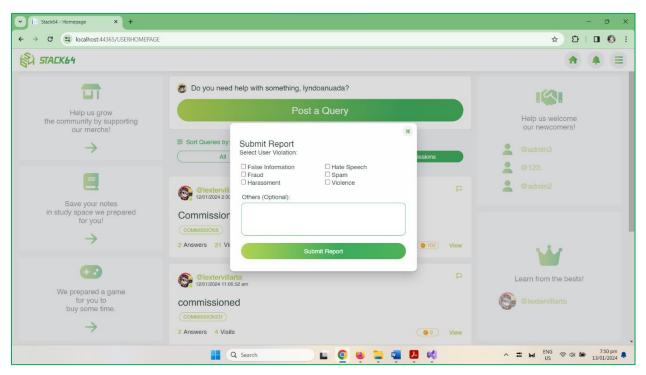
This part of the system allows user to go to different part of the platform, and enables user to see other user accounts being online.

Figure 4. Post a Query Window



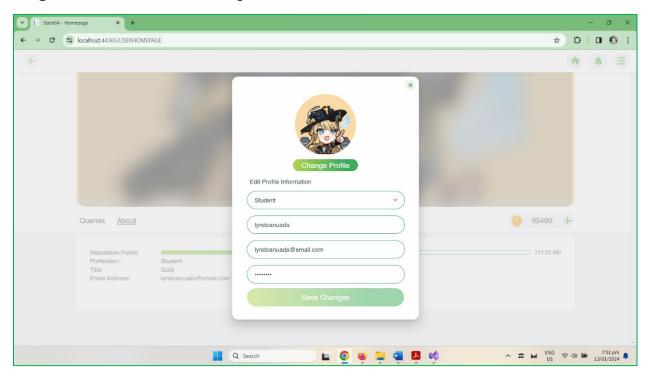
This section of the system allows user to ask and submit their programming related questions.

Figure 5. Submit Report Window



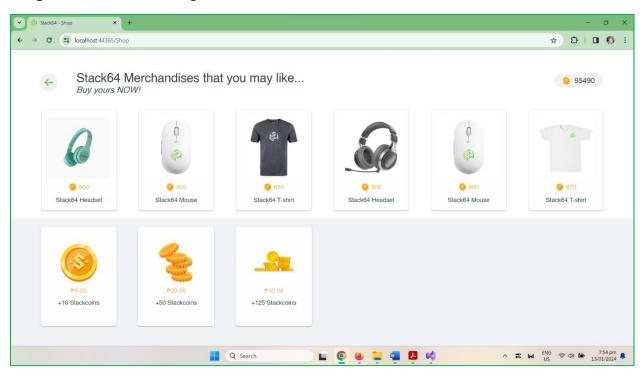
This part of the system allows user to submit a question or answer report in regards to the rules and violations of the platform.

Figure 6. User Account Management Window



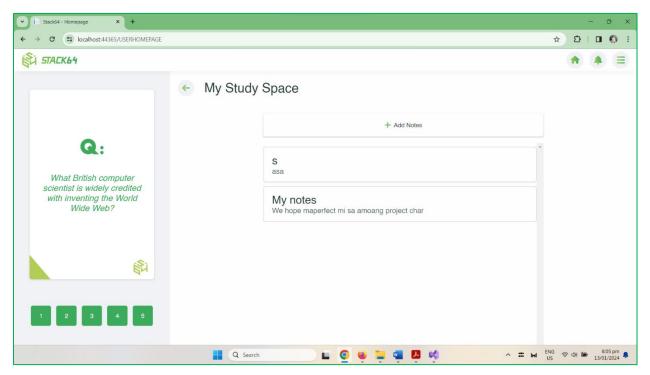
This section of the system allows user to change their profile and account information.

Figure 7. Merchandising



This part of the system allows user to buy exclusive Stack64 products and Stackcoins (Website currency).

Figure 8. Study Space



This section of the system allows user to take down notes and check daily short quizzes.

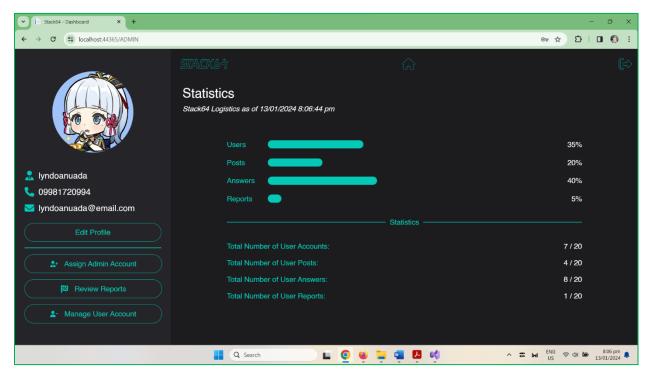
BIRD FLEW
Choose Bird Color, Yunov
Start Game

A 2 May 100 May

Figure 9. Games (Bird Flew)

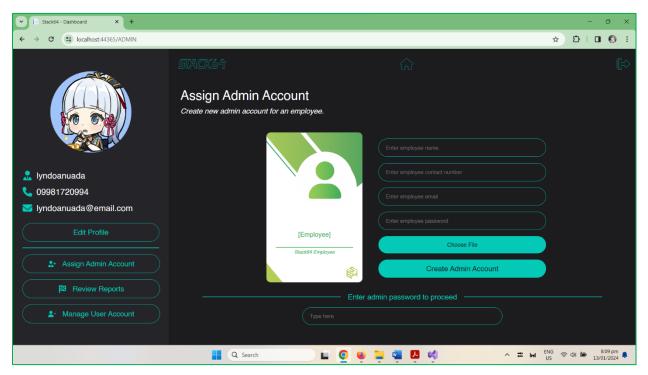
This part of the system allows user play games prepared by the developers of Stack64.

Figure 10. Admin Dashboard



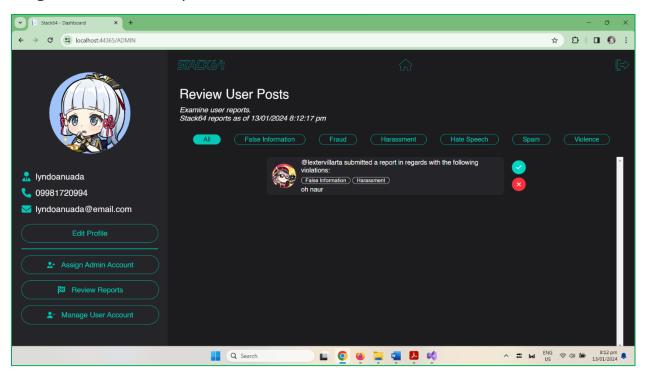
This section of the system allows admin to monitor Stack64 average logistics.

Figure 11. Admin Account Assignment



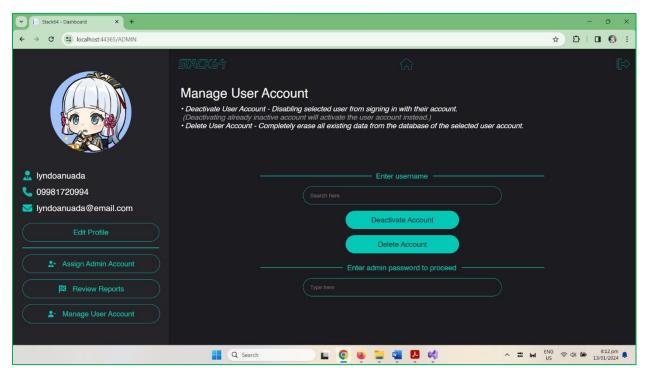
This part of the system allows admin to assign (create) new account for a Stack64 employee.

Figure 12. Review Reports



This section of the system allows admin to approve and disapprove reports submitted by the users.

Figure 13. Account Management



This part of the system allows admin to deactivate, activate, and delete user accounts.

### References

Prosus. (2008, September, 15). Stack Overflow. <a href="https://stackoverflow.co/">https://stackoverflow.co/</a>

OpenAI. (2022, Novermber, 30). ChatGPT. <a href="https://openai.com/chatgpt">https://openai.com/chatgpt</a>

#### **Developer's Profiles**



#### **Developer: John Lyndo Vero Anuada**

Age: 21

Address: Sabang, Sibonga, Cebu

Email Address: <a href="mailto:anuadajohnlyndo@gmail.com">anuadajohnlyndo@gmail.com</a>

Facebook Profile: Lyndo Anuada

Website: N/A

Tiktok: @kelvinstinct

Hobbies: Playing FPS (First Person Shooter), Playing MOBA (Multiplayer Online Battle

Arena), and Editing Videos.

Skills: Keen to Digital Arts (Adobe Photoshop, Adobe Premiere Pro)

# **Developer's Profiles (Cont.)**



#### **Developer: Lexter Cavan Villarta**

Age: 22

Address: P. Burgos Street, Carcar City, Cebu

Email Address: <a href="mailto:lextervillarta2001@gmail.com">lextervillarta2001@gmail.com</a>

Facebook Profile: Lexter Villarta

Website: N/A

Hobbies: Online Games

Skills: Can any take role in Online Games

#### BSIT 3B - JAVA

List of members:
John Lyndo Vero Anuada
Lexter Cavan Villarta

#### **First Semester**

Academic Year 2023-2024

PC 316 – Systems Integration and Architecture 1