



Subscription based chat application (Subscription Model)

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Internship Report

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Introduction

On March 13, 2020 based on an academic-industrial collaboration between Independent University, Bangladesh and Grameen Communication we started our internship journey.

In 1994, Grameen Communications initially started functioning as a Computer Services Unit under Grameen Trust, providing an automated MIS for Grameen Bank. Grameen Communications believes in quality performance, especially in the field of microfinance both in Bangladesh and abroad. Grameen Communications is a leading IT solutions provider in Bangladesh. With a strong track record in IT solutions development, proven corporate structure, standards and infrastructure, Grameen Communications provides IT solutions and support services to a wide range of users. Being able to work as an intern in reputed and leading IT solution company such as Grameen Communication will give a huge benefit in our carriers.

After starting our internship as software developing intern, we were assigned a task to develop a subscription-based chat application for the internal use of Grameen Communication. The chat applications will enable user to chat with one another using internet service. Later on, were divide into two groups. Our group was assigned to develop the features of the chat application. Features include designing and developing landing page, login page, dashboard, subscription management, payment gateway integration, designing database and backend programming.

Purpose of this Internship

The purpose of this internship is so that we the interns can get a flavour of the industry. This internship will help us to further develop our skills and develop new ones. These skills include,

- Learning how largescale projects are managed, developed, and handed over to clients on time
- Getting used to office culture
- Working in teams
- Improving communication skills
- Better time management
- Building a professional network

All these skills will help us in our future career.

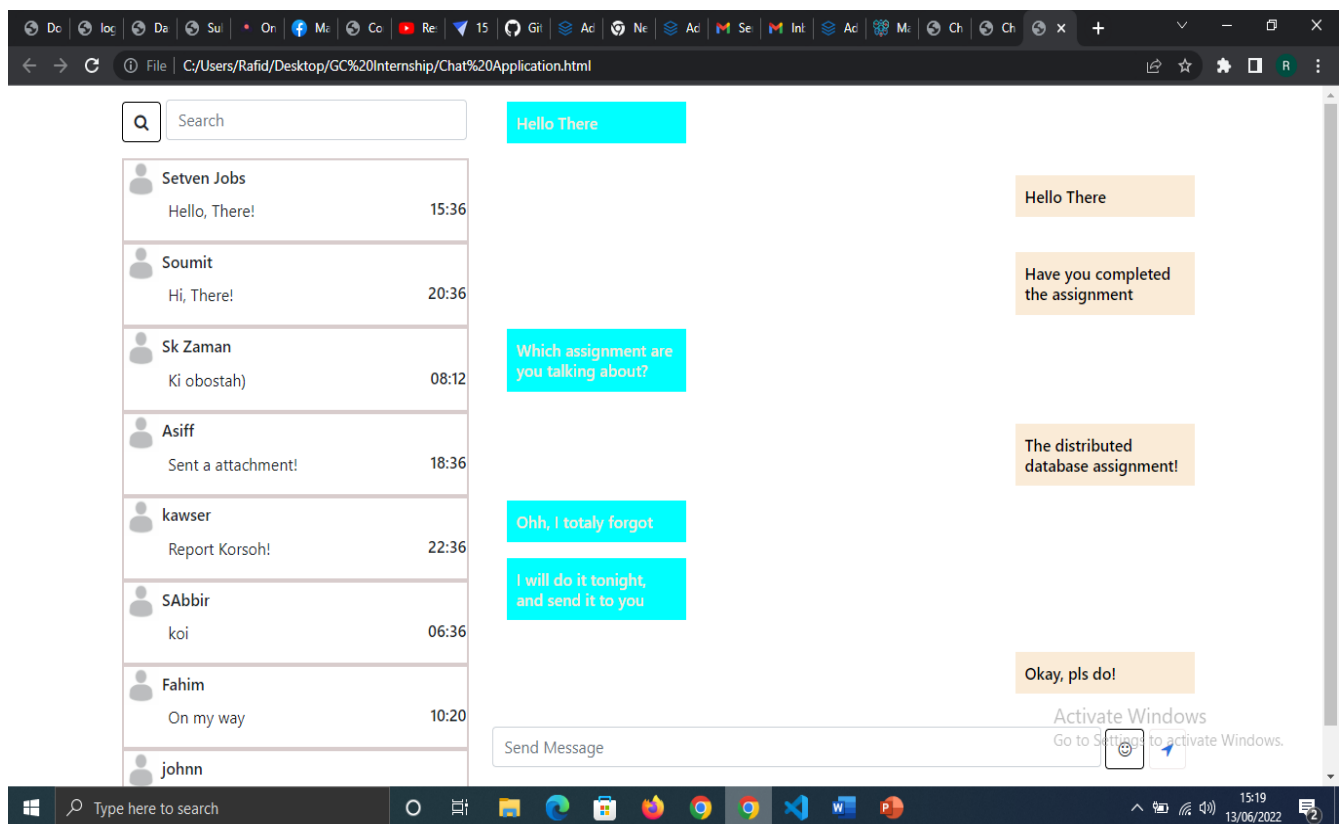
What we have learned so far

Firstly, after joining our supervisor Saidul Sir assigned us a task in excel sheet. Our task was to write a brief description and syntax of all the technologies used for software development. A screenshot of the excel sheet is provided below. Also this is the link for the excel sheet for all members of the software development team -

https://docs.google.com/spreadsheets/d/1gk6eOnR_PEkJsQmhA7dq_jcWBZO9WTjCgaKukrJr3a4/edit?fbclid=IwAR1LCA0vYHTi8DcVTRulqJJ2ir2RFnjtVSi4WCzWNU0eHzZWfPYF1ldxABY#gid=271676484

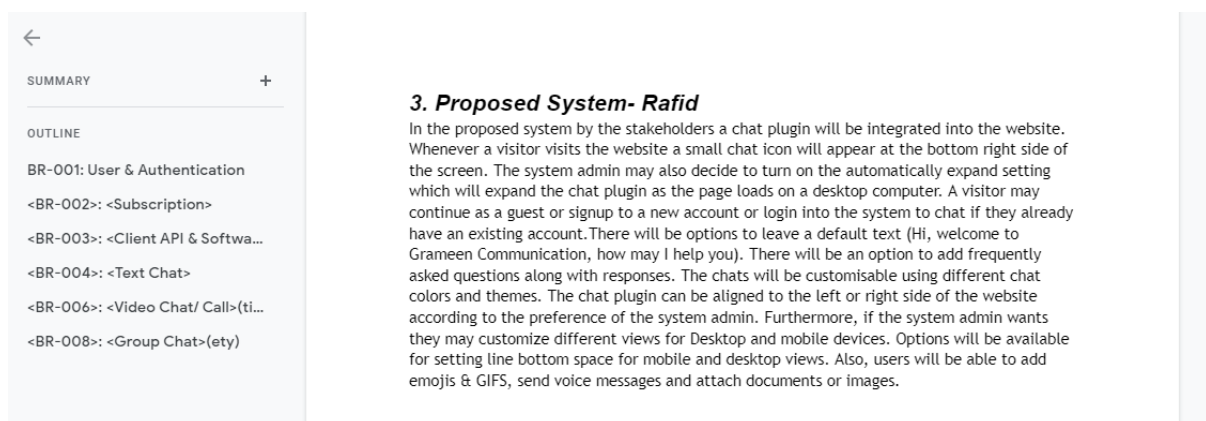
SI	Category	Terms	What is it	Why	Basic Syntax
1	1 Front-end	HTML	HTML is Hyper Text Mark Up Lanuage.	It is used for making the structure of web	<p></p> Paragraph syntax.
2		CSS	CSS is Cascading Style sheet	It defines how elements should be placed	background-color: green;
3		Javascript	It is an programming language	It is used for adding interactivity to website	console.log('Hello World')
4		TypeScript	It is an object-oriented programming langu	It enables static typing	console.log('Hello World')
5		Node JS	It's a runtime enviroment used for running	Used for server side scripting	console.log('Hello World')
6		Express	It's a open source web application framew	It is used for designing and building web	console.log('Hello World')
7		Bootstrap	it is an open source css fornt-end framewo	used for making websites responsive	<div class="container"></div>
8		React Js	It is a jopen source avascript library	Used for building user interfaces	console.log('Hello World')
9		Vue Js	It is a front-end frame work	Is used for making single page applicatio	console.log('Hello World')
10		Angular Js	It's a structural front-end frame work	Used for making dynamic web apps	console.log('Hello World')
11	2 Back-end	PHP	It is an server-side programming language	It is used for server side scripting, dynam	echo("Hello world")
12		LARAVEL	It is a PHP based open source framework	makes we development easire by easing	echo("Hello world")
13		CodeIgniter	It is a PHP MVC framework	Makes it easy to build large scale web ap	echo("Hello world")
14		CakePHP	Is a open sourcePHP framework	Makes development process faster and si	echo("Hello world")
15		Python	It is a programming language	Is used to build software and websites, a	print('Hello World')
16		Django	It is a open-source high end python framew	It is used for buliding websites and highl	print('Hello World')
17		Flutter	Is an open-source python framework	Used for creating high performance mobil	print('Hello World')
18		Java	It is a programming language	Used to build applications for a wide rang	System.out.println("Hello World");
19		Spring Boot	Is an open source java based framework	Used for create standalone applications	System.out.println("Hello World");

This task was a brainstorming for us. Later we were assigned the task for developing and designing the Graphical User Interface of the chat application using HTML5, CSS3, Bootstrap5. The screenshot of the graphical user interface is provided below.



After finishing all this work, Saidul Sir assigned us the task to complete the Business Requirement Documents (BRD) for the subscription-based chat application. Each of the software development team members wrote certain sections of the BRD. The link for the BRD - https://docs.google.com/document/d/1I-qM2Pi51Vsr-bV5PmlkeqfN-yA8tT2XKJaDxS0U7u4/edit?fbclid=IwAR13yZ3UIS6bDWrbFinRCzI_Bj0-orbj5uBqH0oPhFbzKa9T9imPZFQNGPs

Here is a screenshot of the BRD



1.3 Reference- Ety

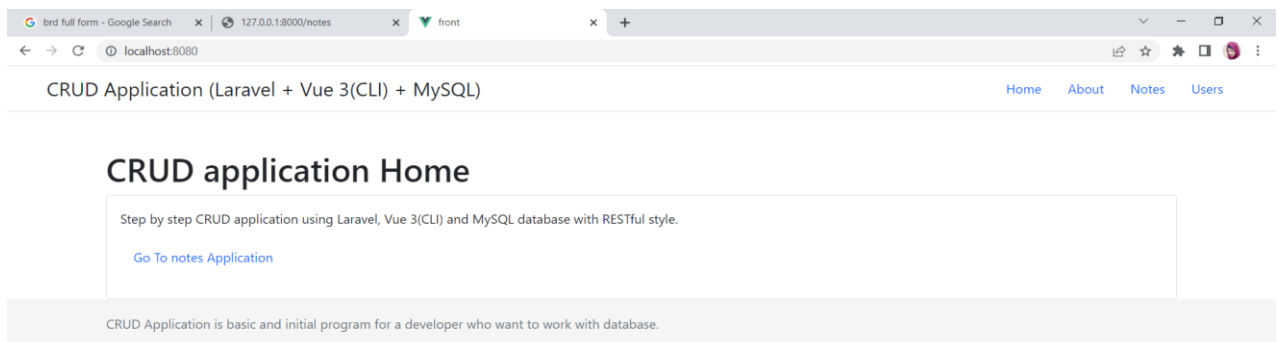
SL No.	Document Name / Description	File Name/ Ref. No	Document Source	Publishing Organization	Date of Accept
1.	SUBSCRIPTION TO FEE-BASED ONLINE SERVICES	Journal of Electronic Commerce Research, VOL 6, NO.4	https://www.researchgate.net/publication/242405012_Subscription_to_fee-based_online_services_What_makes_consumer_pay_for_online_content	Journal of Electronic Commerce Research	January 2005
2	Chat application	https://www.slideshare.net/MuhammadAshiqurRahma/chat-application-full-documentation	https://www.slideshare.net/MuhammadAshiqurRahma/chat-application-full-documentation	slideshare.net	Apr. 18, 2017
3	Examining satisfaction with the experience during a live chat service encounter- Implications for website providers	Computers in Human Behavior 76:494-508	https://www.researchgate.net/publication/318990296_Examining_satisfaction_with_the_experience_during_a_live_chat_service_encounter_Implications_for_website_providers	researchgate.net	August 2017

2. Current System-Tiasha

Grameen communication does not have its own online chat service. So, we have to implement it. Office employees now use third party social media applications such as whatsapp, messenger, skype etc. This allows their chat server to link between the website and their software in order to communicate instantly.

We want to implement a "Subscription Based Chat Application". A chat application based on this allows users to communicate with one other in a seamless manner. This chat application is described in detail in the purpose section.

After completing the BRD we are asked to learn the front-end frame Vue.js and back-end framework PHP-Laravel framework. We learned how to perform CRUD operations in this framework. Since we didn't host this project online, we are unable to provide a link. However, few screenshot have been provided below.



brd full form - Google Search x 127.0.0.1:8000/notes x front x +

localhost:8000/notes

CRUD Application (Laravel + Vue 3(CLI) + MySQL)

[Home](#) [About](#) [Notes](#) [Users](#)

[Add Note](#)

Notes

Date	Note Number	Title	Action
2022-05-25 12:40:43	13	ety	Edit Delete
2022-05-25 12:36:16	54321	bolbona	Edit Delete

CRUD Application is basic and initial program for a developer who want to work with database.



brd full form - Google Search x 127.0.0.1:8000/notes x front x +

localhost:8000/notes/add

CRUD Application (Laravel + Vue 3(CLI) + MySQL)

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Add Note

Note number

Note Title

Date time

Description

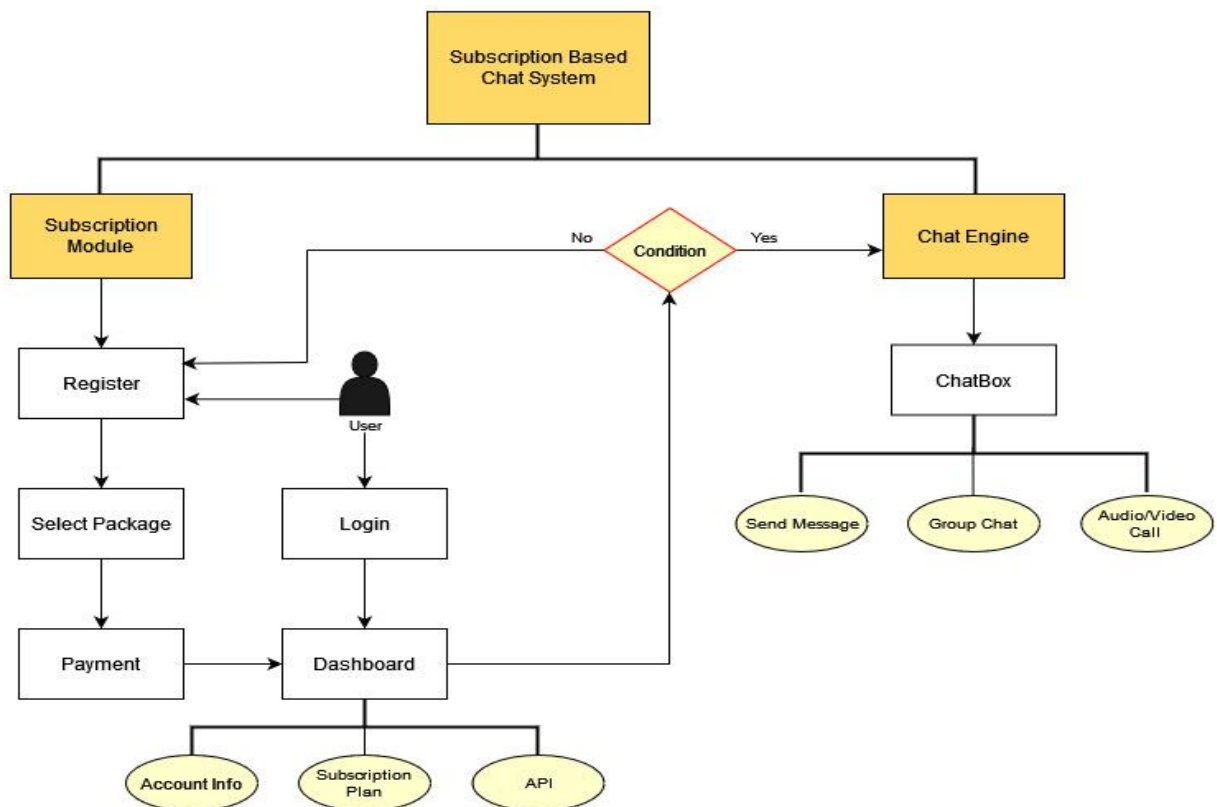
Involved person

Location



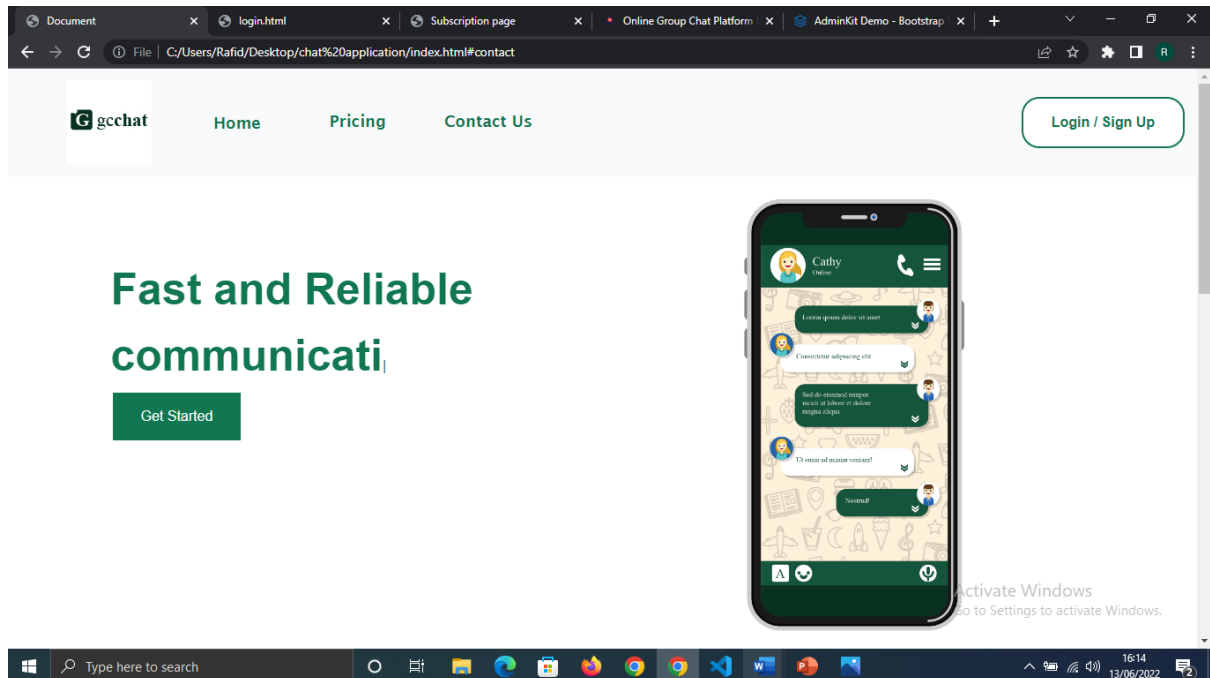
```
brd full form - Google Search x 127.0.0.1:8000/notes x +
127.0.0.1:8000/notes
[
  {
    "id": 3,
    "uid": "",
    "note_number": "13",
    "title": "ety",
    "date_time": "2022-05-25 12:40:43",
    "description": "hyf",
    "involved_person": "t",
    "location": "hc",
    "created_at": null,
    "updated_at": null
  },
  {
    "id": 2,
    "uid": "",
    "note_number": "54321\r\n",
    "title": "bolbona",
    "date_time": "2022-05-25 12:36:16",
    "description": "no need",
    "involved_person": "no",
    "location": "no need to tell",
    "created_at": null,
    "updated_at": null
  }
]
```

After completing this task, we were divided into two groups. Our group was tasked to develop and design the features of the chat applications such as – Landing Page, Login and Sign-up page, Dashboard, Subscription plan management, Payment gateway integration, Designing Database and programming the backend for all features. Here is the process flow diagram

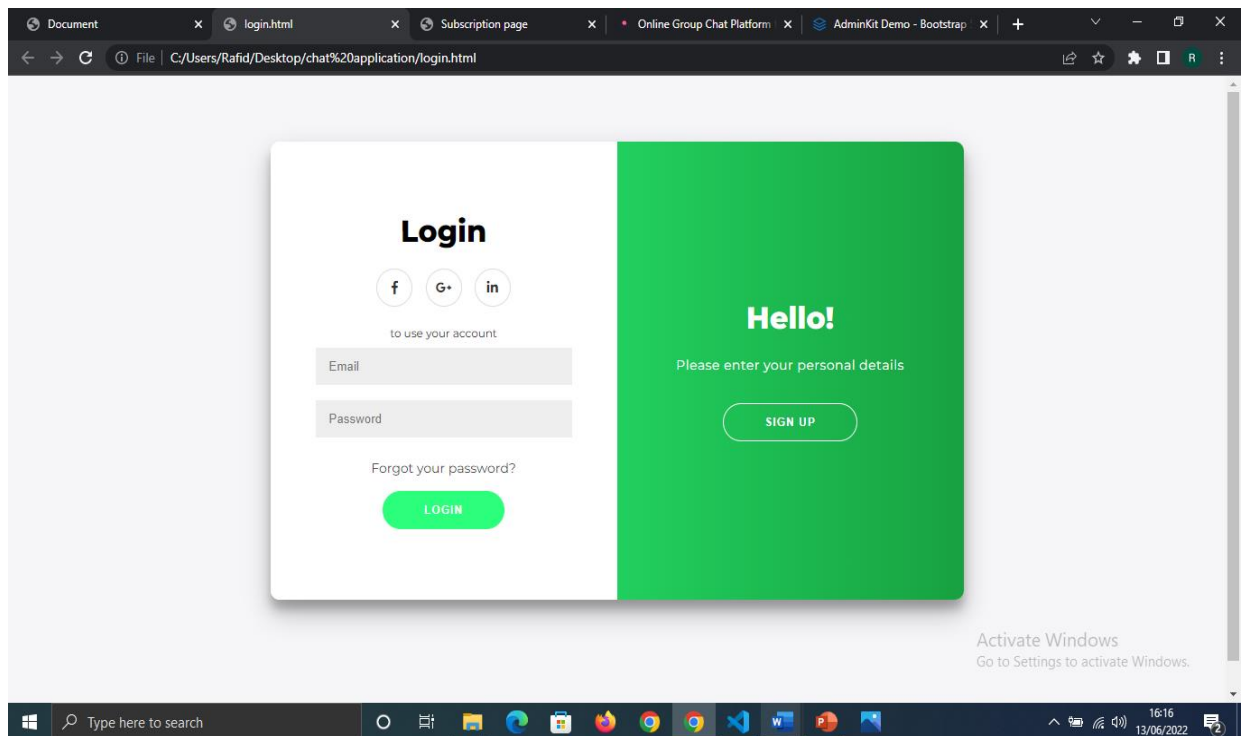


Everything in the subscription model has been design and developed by us. Screenshot of all the pages made by use is provided below

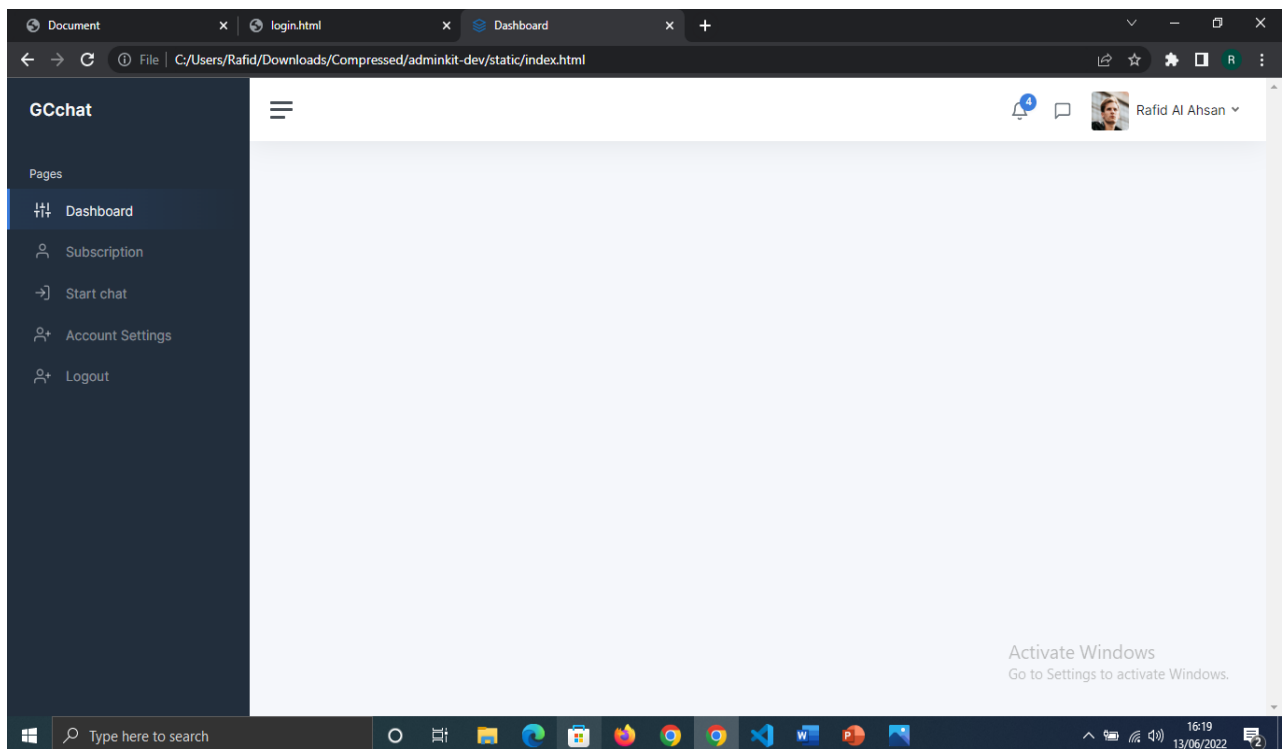
Landing Page:



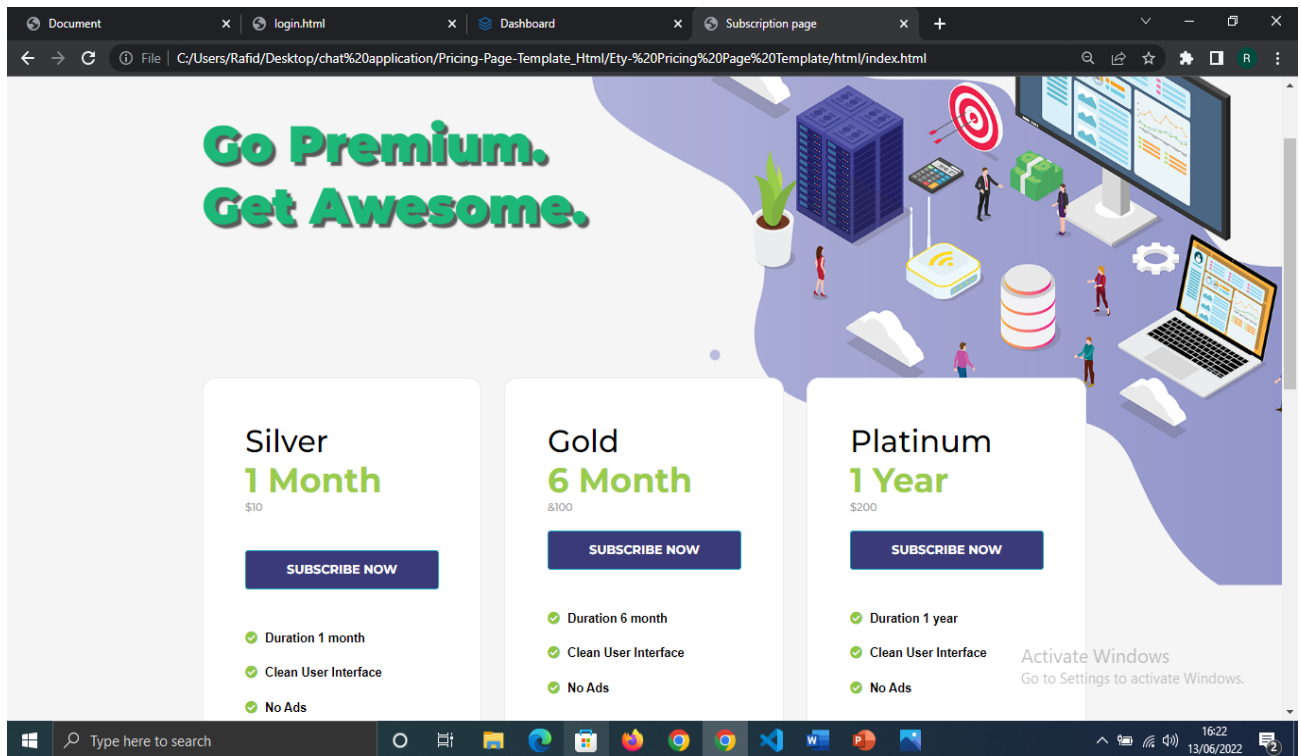
Login and Sign-Up Page:



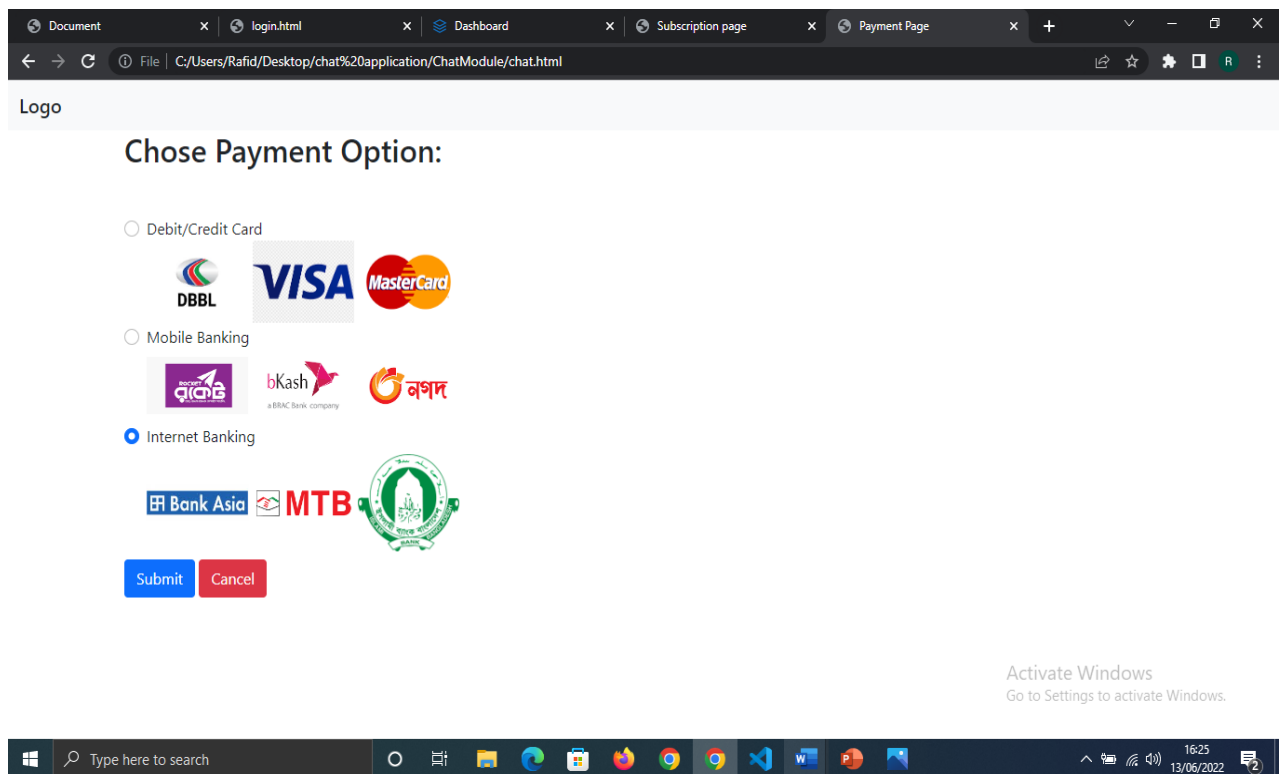
Dashboard:



Subscription Page:



Payment Page:



This was most of the work we performed during our three-month internship. Also, we did attend hardware classes.

Final Outcome

After this chat application is fully developed users will be able to chat with one another. The speciality of this chat application is that it is light-weight and has a beautiful looking, easy to use Graphical User Interface. The chat application is also very secure has it has login and signup verification. Initially it will be used for internal purposed of Grameen Communication and later, be released as a commercial software.

Conclusion

After successful completion of this internship, we have got used to the office culture. We know how to better manage and handle a project in teams. We have got far better in time management and communication skills.

This experience that we have gathered during the internship will help us further in our future careers for finding jobs and working in corporate places.