

# Final Report

Project Title: Post Pioneer

Course: COSC 4P02

Date: April 27, 2025

Group Number: 8

Group Members:

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## Introduction

The project is a SaaS web application, utilizing JavaScript/HTML/REACT/Flask and Python, that allows users to create personalized social media posts.

The software enables users to streamline content generation by leveraging AI to produce relevant content and generate images and text.

The user can customize content for different platforms—for instance, Twitter or LinkedIn.

Users can set the frequency of the post generation bot, choosing between daily, weekly or monthly. The application will provide a centralized dashboard that provides analytical insights.

## System Architecture

- Frontend
    - **React.js** – Component-based UI development
    - **Tailwind CSS** - For styling UI Components
    - **Material UI (MUI)** – Modern, responsive UI components
    - **Recharts** – Data visualization (engagement graphs)
  - Backend
    - **Flask (Python)** – Lightweight API for post generation logic
    - **Deepseek (Ollama) and Stable Diffusion (Diffusers)** – AI-driven content generation
    - **Firebase Authentication** - User Authentication
    - **Firebase Realtime Database** – JSON-based NoSQL database for storing user inputs, posts, and settings
  - Integration
    - **RESTful API (Flask ↔ React)** – Smooth communication between backend and frontend
    - **Firebase SDK** – Authentication and Realtime DB connection
    - **Custom Scheduling Logic** – To manage post frequency (daily/weekly/monthly)
-

## Swe Processes + Design and implementation

### Agile Methodology in Our Project

- Agile Framework
  - Adopted **Scrum** to enable iterative development and continuous improvement
- Sprint Structure
  - Followed a **2-week cycle**
  - Included **sprint planning**, **sprint reviews** and **retrospective** to align on goals, review progress, and reflect on improvements
- Team Collaboration
  - Initially conducted daily standups, which evolved into weekly **check-ins** and were later integrated into main team biweekly team meetings
  - Practiced **Pair Programming** to enhance code quality and knowledge sharing amongst team members

### Agile Methodology in Our Project

- Task/workflow management
  - Used **JIRA** to manage user stories, track tasks, and monitor sprint progress
  - Each User Story was broken down into actionable tasks ("taskified")
- Version Control
  - Codebase has been hosted on **GitHub**
- Feedback Loop
  - Agile allowed regular meetings with stakeholders (TA and Professor) for **continuous feedback** and **iterative refinement** of the project.
- Documentation
  - Maintained **internal documentation** for development clarity
  - Provided user installation guides in the GitHub **README** for ease of use

Link to Jira : [4P02 Scrum Project](#)

Link to Github : [rc21mj/COSC4P02](#)

# Design and Implementation

## Architectural Patterns

- **Producer-Consumer Pattern:**
    - Utilized for handling scheduled posts — the **Producer** creates scheduled content, which is then processed and displayed by the **Consumer (Dashboard)**.
  - **Client-server Architecture**
    - Used to separate concerns — the **Client** handles the user interface and interactions, while the **Server** manages logic, data, and API communication.
  - **Version Control**
    - **Git** was used for source control, with **GitHub** as the remote repository to enable collaboration, branching, and pull requests.
  - **Licensing**
    - The project is open-source and released under the GNU General Public License v3.0
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## Features

- Account creation
- Social media account linking
- Post generation
- With image generation
- With uploaded image
- Post analytics dashboard
- Post editing functionality
- Post deletion functionality

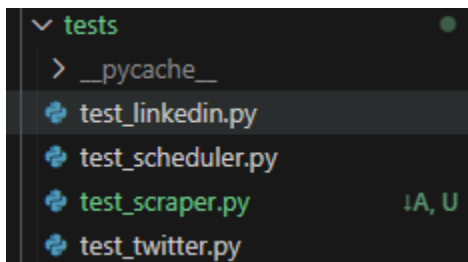
# Testing

## Automated Testing

- Automated testing was performed on functional requirements using the pytest library
- Focused upon testing basic functionality using mock data
- Aim to cover the parts of the code that interact with social media APIs, i.e. Twitter, LinkedIn, as well as the code responsible for interacting with Firebase db for scheduling.
- Tests are located within COSC4P02/PostPioneer/backend/tests

## Manual testing

- Manual testing for functional requirements was done
- A document that details all manual test cases recorded (see below table)
- Test Description, Precondition, Test steps, Expected Results, Pass/Fail
- Manual testing for the front-end was carried out here as well. (For instance, login and register functionality)
- Testing was done by Developers of the team and third party testers
- Manual testing was done quite often
- Tested some Edge Cases as well
- Non-Functional testing was out of the scope of our testing as things like Availability and Reliability testing took too much scale to test



```
plugins: anyio-4.9.0, cov-6.1.1
collected 27 items

tests\test_linkedin.py .....
tests\test_scheduler.py .....
tests\test_scraper.py .....
tests\test_twitter.py .....

===== tests coverage =====
coverage: platform win32, python 3.13.2-final-0

Name          Stmts  Miss  Cover
-----
mergedApp.py   292    66    77%
TOTAL          292    66    77%
```

```

===== tests coverage =====
coverage: platform win32, python 3.13.2-final-0
-----
Name           Stmt% Miss Cover
-----
webScraper.py    78     5   94%
-----
TOTAL            78     5   94%

```

Test Description	Preconditions	Test Steps	Expected Result	Pass/Fail	Comments
Verify Home button navigates to homepage	N/A	Click the Home button in the navbar	User is redirected to homepage	Pass	
Verify Dashboard navigation	N/A	Click the Dashboard button	Dashboard page loads	Pass	
Verify Generate a Post page loads	User is logged in	Click on the Generate a Post! button	User is redirected to form to generate a post	Pass	
Verify Payment Plan page loads	User is logged in	Click the Payment Plan button	User is redirected to payment plan page	Pass	
Verify Settings page loads	User is logged in	Click the Settings button	User is redirected to Settings page	Pass	
Verify Sign out button logs user out	User is logged in	Click on Sign out	User is redirected to home page and session is cleared	Pass	Login session is cleared

Verify User Login button navigates to login screen	User is logged out	Click on User Login	User is redirected to the login page	Pass	
Check responsive layout on smaller screens	Device width < 768px	Resize browser window	Layout stays clean and items on web app adjust accordingly	Pass	
UI consistency for navbar on all pages	User is on any page	Observe navbar layout and style	Navbar is present, buttons are spaced evenly, contrast is good, hover states work	Pass	
Submit login with empty email	User is on login page	Click "NEXT" with empty email field	Error message shown: "Enter your email address to continue"	Pass	
Submit login with invalid email format	User is on login page	Enter invalidemail and click "NEXT"	Error message shown: "That email address isn't correct"	Pass	

Submit login with valid unregistered email and valid password	User is on login page Email not in Firebase	1. Enter valid@example.com, click NEXT 2. Write password like test123, click SAVE	Create account workflow is entered and then user is navigated to homepage	Pass	User is added to firebase and user is signed in
Submit login with valid unregistered email and invalid password	User is on login page Email not in Firebase	1. Enter valid1@example.com, click NEXT 2. Write password like test1, click SAVE	Error is shown "Strong passwords have at least 6 characters and a mix of letters and numbers"	Pass	
Submit with valid registered email and valid password	User is on login page Login details in Firebase	1. Enter valid@example.com, click NEXT 2. Write password test123, click SIGN IN	Sign in workflow is entered and user is navigated to homepage	Pass	User is signed in
Submit with valid registered email and invalid password	User is on login page Login details in Firebase	1. Enter valid@example.com, click NEXT 2. Write password test1234, click SIGN IN	Error is shown "The email and password you entered don't match"	Pass	



Submit valid support message	User is on Support page	1. Enter a topic in "Your Topic" 2. Enter a valid email in "Your Email" 3. Type a message 4. Click SEND MESSAGE	User is redirected to <a href="https://formsubmit.co/form/submit">https://formsubmit.co/form/submit</a> with a link back to the main website	Pass	An email should be received at the support email address, in this case rockheadrush@gmail.com
Submit with invalid email format	User is on Support page	Enter text like test@ in "Your Email" field and click SEND MESSAGE	Error shown for invalid email input	Pass	
Submit with empty fields	User is on Support page	Click SEND MESSAGE with all fields empty	Error shown for empty fields	Pass	
Submit a generate post	User is logged in User is on Generate a Post page	Click generate post with any fields (preferably default)	A post is generated and the user is redirected to the edit posting page	Pass	
Submit an edited post	User is logged in User has generated a post	Click submit a post	The user is redirected to the home page	Pass	A post is now added to the specified platform
Scheduler generates post	Hourly scheduled post is in database	1. Open backend 2. Wait for scheduler trigger	Post generation should trigger automatically	Pass	

		3. Check console logs			
Press Delete Account button	User is logged in User is on Settings page	Click the DELETE ACCOUNT button	User should be logged out	Pass	The user account is removed from Firebase
Press the Sign Out button on the settings page	User is logged in User is on Settings page	Click the sign out button	User should be logged out	Pass	
Press the Add LinkedIn button	User is logged in User is on Settings page	1. Click the Add LinkedIn button 2. Proceed through LinkedIn proprietary authorization flow 3. Submit	User should be redirected back to Settings page	Pass	LinkedIn credentials are added in database
Press the Remove LinkedIn Button	User is logged in User is on Settings page	Click the Remove LinkedIn button	User should be redirected back to Settings page	Pass	LinkedIn credentials are removed from database
Press the Add Twitter Button	User is logged in User is on Settings page	1. Click the Add Twitter button 2. Proceed through LinkedIn Twitter authorization flow 3. Submit	User should be redirected back to Settings page	Pass	Twitter credentials are added in database

Press the Remove Twitter button	User is logged in User is on Settings page	Click the Remove Twitter button	User should be redirected back to Settings page	Pass	Twitter credentials are removed from database
Generate Post without an Image	User is logged in and User is on the Generate a post page	1. Fill out the entire post form 2. Select "None" for add image 3. Click submit	Users should not see an image in the edit post form.	Pass	An image is not generated or used if not requested.
Generate Post with an Uploaded Image	User is logged in and User is on the Generate a post page	1. Fill out the entire post form 2. Select "Upload" for add image 3. Upload an image 4. Click submit	Users should be able to upload an image and see that uploaded image on the edit post form.	Pass	The uploaded image is displayed and can be posted.
Generate Post with a generated Image	User is logged in and User is on the Generate a post page	1. Fill out the entire post form 2. Select "Generate" for add image 4. Click submit	Users should see the generated image after some time in the edit post page	Pass	The image has been generated and can be posted.
Display weekly, daily and monthly engagement stats on user dashboard	User is logged in and User is on the Dashboard page	1. Select daily, weekly and monthly on the graph.	Users should be able to see the difference in time frames.	Pass	The data is different for each timeframe.

Delete scheduled post	User is logged in and on the dashboard	1. Find post to delete 2. Select delete button	Users should see the post disappear from the list	Pass	Delete function is working
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## User, technical, and installation manuals

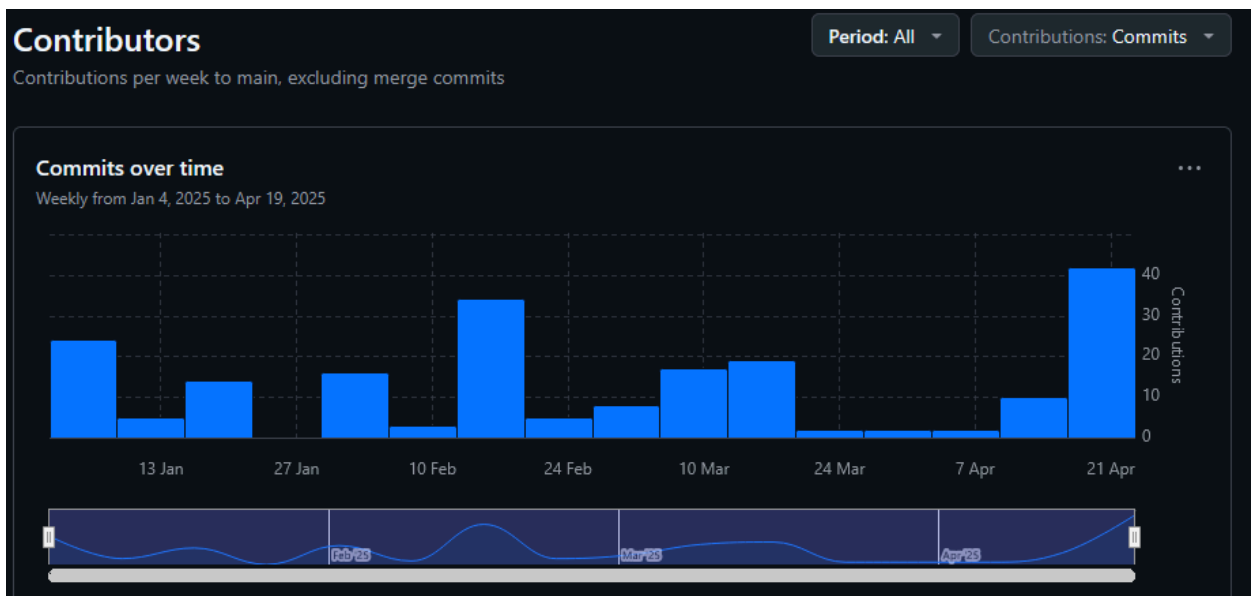
### Internal Documentation

<https://github.com/rc21mj/COSC4P02/blob/main/Internal%20Documentation.pdf>

### Instructions To Run

- Install Ollama
- 'pip install ollama'
- 'pip install diffusers'
- 'pip install torch'
- 'pip install transformers'
- 'ollama serve'
- Install DeepSeek (currently using 1.5b)
  - Before your first run use the command: `ollama run deepseek-r1:1.5b`
  - For other versions change the postfix in the commandline (currently 1.5b) and change the model field to that model in Save.py
  - For running timyllama, use command 'ollama run tinyllama'
- To run the front end, open your command line and navigate to `PostPioneer/frontend`
  - Have `npm` installed
  - Run `npm install react-scripts` and `npm install firebaseui`
  - Run `npm start`
- To run the back end, open your command line and navigate to `PostPioneer/4p02 testing/postpioneer`
  - Have `python` and `pip` installed
  - Run `pip install firebase-admin`, and `pip install ollama`
  - Run `py mergedApp.py`

# Each member’s work + GitHub logs



## Charmvir:

- Text Generation (Deepseek & Ollama to run locally)
- Image Generation (Stable Diffusion, tried other models but this was the most compatible)
- Scheduling (APScheduler with Flask)
- Authentication, Account deletion (Firebase)
- Support form (formsubmit.co)
- Firebase Setup (Authentication and Realtime Database)
- Initial Database Design, Database management & rewriting reads and writes to work with database instead of CSV (Firebase Realtime Database)
- Jira Management (Setting up sprints, moving stories)
- Internal Documentation (I worked with most core features so it made sense for me to write)
- Manual Test Cases (Primarily for functionality but also checked boundary values)
- Misc front-end (Described in further Detail on GitHub)
- Video Generation (not integrated in the final product as I could not test on my AMD hardware and needed NVIDIA)

Commits on Apr 24, 2025

### Dashboard editing functionality implemented

- Ability to edit posts and then post the generated ones has been added

6d51369

cg20gj committed 3 days ago

### Fixed Scheduler and Added Dashboard Features

- Logical error caused by a previous deleting whitespace caused a long debugging process but finally fixed it  
- Added logic to frontend buttons to deal with backend endpoints

c466a13

cg20gj committed 3 days ago

Commits on Apr 23, 2025

### Added backend for dashboard buttons

- Added backend to cancel scheduled post  
- Added backend to change scheduled post

8cd83bf

cg20gj committed 4 days ago

### Fixed scheduler to post to a static field

-Want each post generator to act as a producer that has each generated post overwritten when necessary, this was changed to work in backend

7c43dd5

cg20gj committed 4 days ago

### Merge branch 'main' of <https://github.com/rc21mj/COSC4P02>

cg20gj committed 4 days ago

26ec863

### Updated dashboard to read from backend

- Dashboard now reads post data from backend  
- Added API endpoint for it there too

1f3590f

cg20gj committed 4 days ago

### Readded team's Editposting and MakeAPost Changes

- Readded editposting and makeposting changes  
-Also fixed an error causing generation to fail

2c97132

cg20gj committed 4 days ago

### Re-added navbar changes, added support form fix

-As the title suggests, we lost old navbar changes, I reimplemented them while also fixing the support form

71876d1

cg20gj committed 4 days ago

### Fixed UI routing to old generation page

- When readding old UI, routing was bugged, had to fix it.

83e218b

cg20gj committed 4 days ago

### Fixed settings page not receiving requests error

- Backend was not receiving requests properly anymore so after some debugging changed port on backend

0825ac9

cg20gj committed 4 days ago

Commits on Apr 18, 2025	
<b>Added image upload frontend, fixed form css</b> <small>new</small> - Added custom image upload functionality on front-end, simple addition on backend to accept this - Removed disparate font and background specific to this page cg20gl committed last week	5d59223
<b>Changed Layout and Added Dashboard to Navbar</b> <small>new</small> - Now the footer contains all secondary pages, reducing navbar clutter and making the footer a secondary navbar in a sense - Feel free to change this if you don't like my layout cg20gl committed last week	c533d80
<b>Provided Internal Documentation</b> <small>new</small> - So we can finish the project together I provided a knowledge transfer document, main project functionality knowledge is included - This should be enough that anyone on the team can pickup and understand enough about the project to make meaningful additions cg20gl committed last week	f034ce1
Commits on Apr 10, 2025	
<b>Added sample dashboard page</b> <small>new</small> - To get our work going on the dashboard I implemented a simple UI for what the dashboard could look like - The analytics and post sections can be replaced with individual components that we implement in their own files and export them as components but this work in progress version should be a good proof-of-concept cg20gl committed 2 weeks ago	adf06dc
<b>Added back-end dashboard scheduling placeholders</b> <small>new</small> - Designed so that the front-end team can call without needing to worry about the logic behind them - When the front-end is implemented for the dashboard I can glean into the logic there and take care of this back-end - Call these via a user input on each scheduled post where these functions will take care of the rest cg20gl committed 2 weeks ago	7b07866
Commits on Apr 3, 2025	
<b>Added Hashtags front end, fixed Edit Form</b> <small>new</small> - Simple front-end fix to form for custom hashtags - Fixed Data= in edit form - Reverted DeepSeek to smaller version for testing purposes post demo as well as reverted to cpu based version cg20gl committed 3 weeks ago	3ab8f2e
Commits on Mar 23, 2025	
<b>Added a Video Generation Test File</b> <small>new</small> I cannot run the video generation on my machine so I need someone to run this with me so I can debug this cg20gl committed on Mar 23	8ed787a

## Karan

- Frontend Design and Development
- Registration to the application
- Twitter Authorization (Saving of Twitter logins)
- Twitter Posting Logic
- Twitter Analytics Logic
- Basic vs Pro User Logic
- Payment Plan Logic (Google payment Integration)
- Database Setup
- Manual Testing
- Documentation
- Repository Management

## Nadine

- Frontend Design and development
- Refinement of home/landing page
- Making a uniform look across the platform
- Generate a post form
- Edit post form
- Documentation
- Repository management

### Commits

main

Nadine-Hoda

All time

Commits on Apr 24, 2025

Update mergedApp.py to add custom hashtags to our output

Nadine-Hoda authored 4 days ago

Verified

4810231

<>

Update MakeAPost.js to update form titles

Nadine-Hoda authored 4 days ago

Verified

3e4f798

<>

Commits on Apr 20, 2025

Update Layout1.js matched style to other page, updated format and look

Nadine-Hoda authored last week

Verified

4b3718d

<>

Update MakeAPost.js changed style, added new layout formats and backgrounds + buttons

Nadine-Hoda authored last week

Verified

8ce7a85

<>

Commits on Apr 19, 2025

Update App.js

Nadine-Hoda authored last week

Verified

b094aea

<>

Commits on Mar 15, 2025

Update DeepseekSave.py to return postID

Nadine-Hoda authored on Mar 15

Verified

efaae59

<>

Update TinyllamaSave.py to return post ID

Nadine-Hoda authored on Mar 15

Verified

e8c8ada

<>

Update PreferencesForm.js to redirect the generated post to editing

Nadine-Hoda authored on Mar 15

Verified

cea4e90

<>

Commits on Feb 16, 2025

Merge pull request #3 from rc21mj/nh22dt















Nadine-Hoda authored on Feb 16

Verified




ccf404d

<>
























<b>Merge pull request #3 from rc21mj/nh22dt</b>   Nadine-Hoda authored on Feb 16	 ccf484d  <>
<b>created react frontend</b>  Nadine-Hoda committed on Feb 16	9927749  <>
<b>Merge pull request #2 from rc21mj/nh22dt</b>   Nadine-Hoda authored on Feb 16	 9ea22fa  <>
<b>Testing</b>  Nadine-Hoda committed on Feb 16	89de18e  <>
<b>Updated README file</b>  Nadine-Hoda committed on Feb 16	c8247c5  <>

Commits on Feb 3, 2025

<b>Update tone.go</b>  Nadine-Hoda authored on Feb 3	 cae9247  <>
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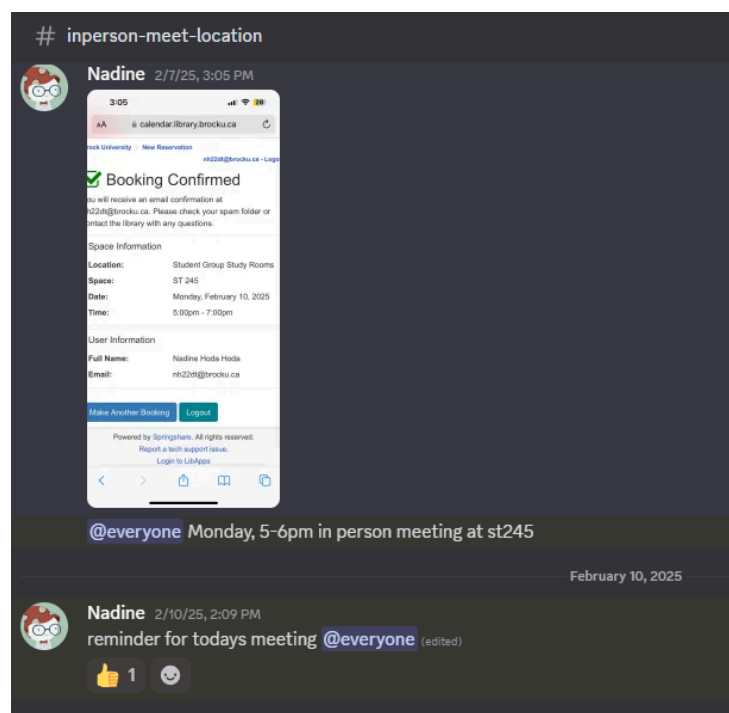
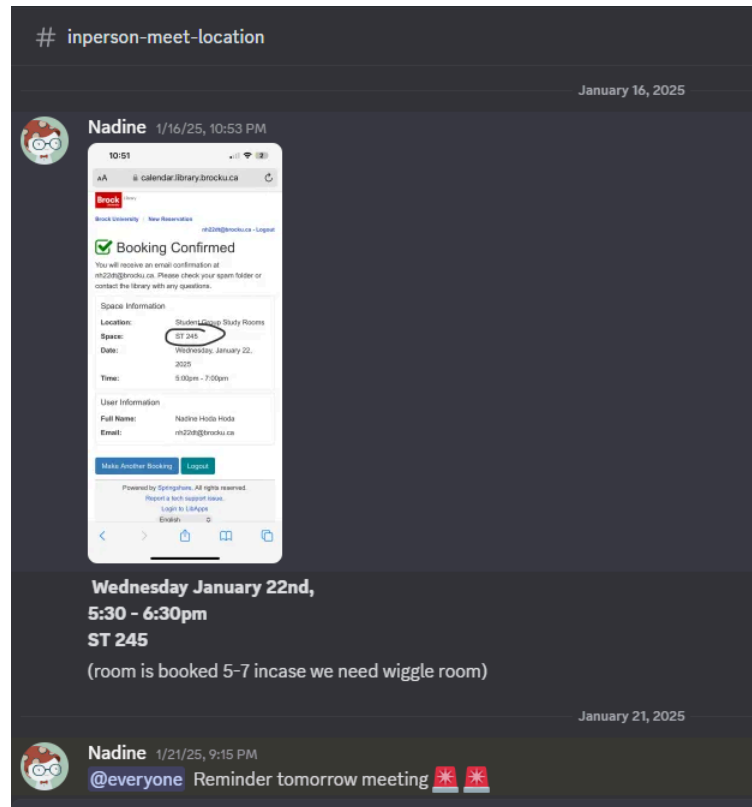
Commits on Jan 9, 2025

<b>Create Project Proposal</b>  Nadine-Hoda authored on Jan 9	 31f26b9  <>
<b>Update README.md</b>  Nadine-Hoda authored on Jan 9	 e79b11b  <>
<b>Update README.md</b>  Nadine-Hoda authored on Jan 9	 fb47234  <>
<b>Create placeholder</b>  Nadine-Hoda authored on Jan 9	 b68229c  <>
<b>Update README.md</b>  Nadine-Hoda authored on Jan 9	 e8f48f8  <>
<b>Update README.md</b>  Nadine-Hoda authored on Jan 9	 cd45a31  <>
<b>Update README.md</b>  Nadine-Hoda authored on Jan 9	 daa548f  <>

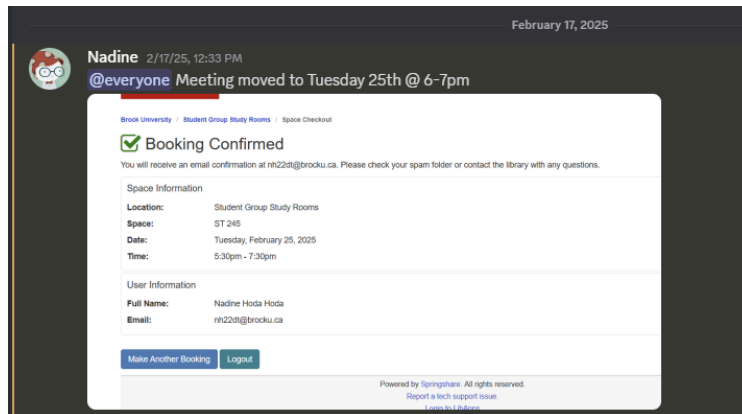
Aside From implementation I took on a key role in team management and took on the following responsibilities to help with the teams organization and time management :

- Conducted meetings twice a week

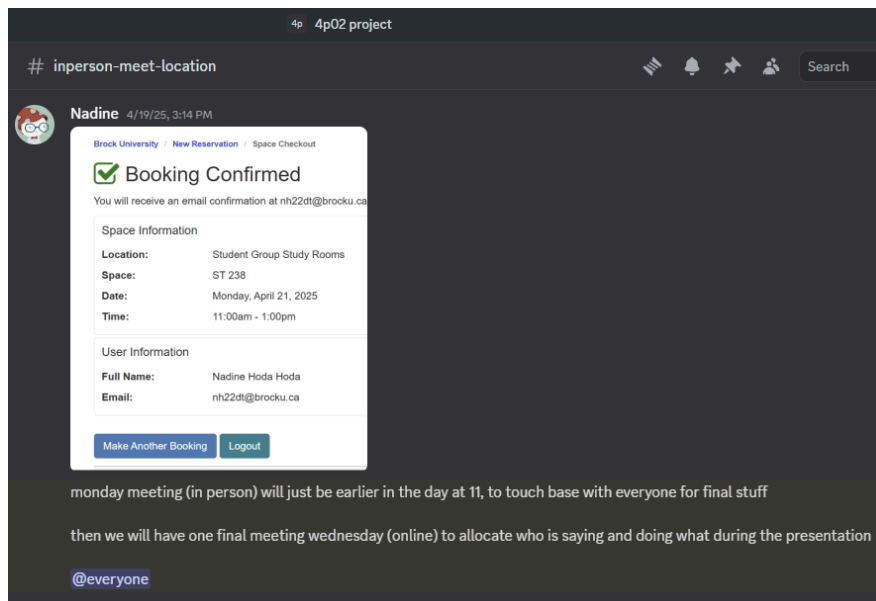
Below is evidence of the channel I created to remind everyone of the team meetings that I took the initiative to book (time + location) and conduct



Also an example of me taking responsibility to move around the meetings and accommodate for when things came up




- Reviewed progress in each meeting +
- Set and adjusted goals for the team accordingly, see example below of last two points, I conducted an additional meeting where necessary



- To make sure goals that were being set in the meetings I conducted were being met I suggested the idea of a weekly stand up in our discord channel so we could watch each other progress

# weekly-standup

 **Nadine** Today at 5:36 PM  
Week of March 10th

Monday: In person meeting with team to discuss progress and upcoming tasks


Tuesday: Started Scrum 38, reviewing posts

Wednesday: Continued to work on scrum 38

Thursday: Made commits on scrum 38, online meeting with group to check in with everyone

Friday: Buddy system with Ritika, peer reviewed each other's work

H: None (edited)

 **Shihab** Today at 5:37 PM  
Week of March 10th:


Monday: refined webscraper, added more to pool of sites

Tuesday: tried to implement cohesive UI design and integrate with back end

Thursday: team meeting, further ui design

Friday: ollama experimentation with deepseek

Saturday: further deepseek model testing

 **Ritika** Today at 5:41 PM  
Week of March 10th


Monday: In person meeting with team for current progress report and upcoming tasks

Tuesday: Started on scrum 99, view and store posts

Wednesday: Researched bug fixes for problems ran into

Thursday: Online team meeting, discussed my progress and go teams input

Friday: Buddy system with Nadine, Peer reviewed each other's work and worked together to improve each other's work

 **Karan** Today at 5:42 PM  
Week of March 10th


Monday: Meeting with the team to discuss progress.

Tuesday: Created and integrated layout component into each reach page.

Wednesday: I researched how react functionality works due to an error in the code from react.

Thursday: fixed UI for the home page, and updated issues with login functionality

Friday: Style changes in the css file, integrated the payment plan page into the react component, fixed sign-out functionality within the UI and etc.

 **Will** Today at 5:42 PM  
Week of March 10th

Monday: Team meeting to check current progress, frontend developments


Tuesday: Continued to work on frontend implementation, adding more pages to the site

Wednesday: Edited setting page, adding linkedin token remove/add function

Thursday: Further configured linkedin token adding to frontend/backend

Friday: Successfully finished implementation and tested with various flows.

H: None

 **Charmvir2** Today at 5:50 PM  
Week of March 10th:

Monday: Got a rough settings outline in the react frontend

Tuesday: Setup logic for translation

Wednesday: Test so limited time but looked into scheduling

Thursday: Test so limited time but looked into scheduling

Friday: Assignment so limited time but looked into fixing old flask frontend with our new react

Weekend: Finished scheduling logic and translating an existing post text body logic, also created a merged login and settings page logic file with the main app.

H: None (was a busy week for tests and assignments outside the class so I put extra time over the weekend to make up for it, will meet with team to push these changes to resolve potential conflicts first) (edited)

- Practicing the above structure I suggested to the team helped me see if anyone needed us to step in right away and call a meeting or if it could wait till the meeting day

- I was able to call meetings if anyone was struggling through this and helped to contribute to the team's management and success

## Ritka

- Generate Post Form
- Edit Post Form
- Backend logic for handling user preferences
- Interacted with Firebase Database to save and fetch user data/posts
- Experimented with OpenAI and TinyLlama for generating text
- Documentation
- GitHub Repository Creation and Management

main	rc21mj	All time
Commits on Apr 23, 2025		
Update mergedApp.py to save scheduled post to database	Verified	ba72f7a
rc21mj authored 4 days ago		
Update mergedApp.py to save posts to database	Verified	539ceF4
rc21mj authored 4 days ago		
Commits on Apr 22, 2025		
Update mergedApp.py to fix indentation error	Verified	22ce419
rc21mj authored 5 days ago		
Update mergedApp.py	Verified	66f17e0
rc21mj authored 5 days ago		
Commits on Apr 20, 2025		
Update Home.js to change frontend look	Verified	03ba88a
rc21mj authored last week		
Updated frontend functionality	Verified	31fa110
rc21mj authored last week		
Commits on Apr 19, 2025		
Update MakeAPost.js to create animated dots indication a post is generating	Verified	1f3b965
rc21mj authored last week		
Update README.md to inform how to run tinnyllama	Verified	bbFe108
rc21mj authored last week		
Update README.md to write how to start ollama server	Verified	4ed1fe2
rc21mj authored last week		
Update and rename PreferencesForm.js to MakeAPost.js	Verified	b6ad79f
rc21mj authored last week		
Update PreferencesForm.js to include drop down option for topic	Verified	2f1bd3b
rc21mj authored last week		

Commits on Mar 18, 2025

Update PreferencesForm.js to allow user to edit their post

rc21mj authored on Mar 18

Verified

4bbfd89

📄 <>

Update EditPosting.js to allow user to edit their post

rc21mj authored on Mar 18

Verified

d24eb07

📄 <>

Update App.js to call EditPost.js

rc21mj authored on Mar 18

Verified

dfb22a5

📄 <>

Commits on Mar 15, 2025

Create TinyllamaSave.py doing web scraping using tinyllama

rc21mj authored on Mar 15

Verified

a39dd24

📄 <>

Rename Save.py to DeepseekSave.py

rc21mj authored on Mar 15

Verified

226afbb

📄 <>

Update README.md to run deepseek

rc21mj authored on Mar 15

Verified

389e2c5

📄 <>

Update App.js

rc21mj authored on Mar 15

Verified

66c8883

📄 <>

Add files via upload

rc21mj authored on Mar 15

Verified

1f0f6eb

📄 <>

Commits on Feb 18, 2025

Delete frontend directory

rc21mj authored on Feb 18

Verified

9b723d8

📄 <>

Merge pull request #4 from rc21mj/databaseConnection

rc21mj authored on Feb 18

Verified

9638853

📄 <>

Merge branch 'main' into databaseConnection

rc21mj authored on Feb 18

Verified

4753f7b

📄 <>

Commits on Feb 17, 2025

Update Edit function

Verified

743f27b

📄 <>

added edit functionality before posting rc21mj committed on Feb 16	dee431d		<>
added edit functionality before posting rc21mj committed on Feb 16	f2fb5a0		<>
added edit option for user preferences rc21mj committed on Feb 16	fe56744		<>
Changed preferenceForm.js rc21mj committed on Feb 16	c88e4a0		<>
Pushing Sprint 2, Scrum 38 rc21mj committed on Feb 16	7ec3cc2		<>

Commits on Feb 15, 2025

Updating Scrum 66 rc21mj committed on Feb 15	689cc61		<>
Changed frontend to React from Fiber rc21mj committed on Feb 15	476a7b5		<>

Commits on Feb 3, 2025

Update tone.go rc21mj authored on Feb 3	Verified	70d99b3		<>
Update Save.py rc21mj authored on Feb 3	Verified	c4ed348		<>
Update LLMintegration.py rc21mj authored on Feb 3	Verified	3a9e3e4		<>

Commits on Feb 2, 2025

Changed tone.py to save user preferences rc21mj committed on Feb 2	9237634		<>
User topic/tone selection rc21mj committed on Feb 2	03c4120		<>

main

rc21mj

All time

Commits on Jan 25, 2025

Delete Sprint1/Scrum66/h rc21mj authored on Jan 25	Verified	5807c2b		<>
Add files via upload rc21mj authored on Jan 25	Verified	8bc3f5b		<>
Create h rc21mj authored on Jan 25	Verified	6321ad2		<>
Delete userPreference.html rc21mj authored on Jan 25	Verified	377b941		<>

<b>Delete savingToDb.py</b> rc21mj authored on Jan 25	Verified 3db4de7		<>
<b>Delete Sprint1notes.pdf</b> rc21mj authored on Jan 25	Verified f57516a		<>
<b>Delete LLMintegration.py</b> rc21mj authored on Jan 25	Verified 1998fd1		<>
<b>Merge branch 'main' of <a href="https://github.com/rc21mj/COSC4P02">https://github.com/rc21mj/COSC4P02</a></b> rc21mj committed on Jan 25	5eb7183		<>
<b>First commit</b> rc21mj committed on Jan 25	69dc999		<>

Commits on Jan 19, 2025

<b>Rename Release_Planning_Template (2).pdf to ReleasePlanning.pdf</b> rc21mj authored on Jan 19	Verified fac8261		<>
<b>Add files via upload</b> rc21mj authored on Jan 19	Verified 00e8816		<>
<b>Delete Documents/Release Plan - Group 8.pdf</b> rc21mj authored on Jan 19	Verified 1e20207		<>

Commits on Jan 12, 2025

<b>Delete Project Proposal</b> rc21mj authored on Jan 12	Verified 382f2f3		<>
<b>Rename 4p02 proposal.pdf to ProjectProposal.pdf</b> rc21mj authored on Jan 12	Verified c55e23c		<>
<b>Add files via upload</b> rc21mj authored on Jan 12	Verified 48d276c		<>







Commits on Jan 8, 2025

























<b>Initial commit</b> rc21mj authored on Jan 8	Verified fa1ade9		<>
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


















## Will


- Frontend Setup
- Base frontend design
- Linkedin Posting setup (text posting, image posting)
- Oauth logic design and database storage
- User Dashboard
- Generate Post Form
- Documentation
- Repository management
- Image and text generation integration
- Web Scraper
- Manual Test Cases



Commits on Apr 24, 2025		
Merge branch 'main' of <a href="https://github.com/rc21mj/COSC4P02">https://github.com/rc21mj/COSC4P02</a>	88aa608	 
 WillYochim committed 4 days ago		
Update Dashboard	7aaaf28	 
 WillYochim committed 4 days ago		

Commits on Apr 23, 2025		
Merge branch 'main' of <a href="https://github.com/rc21mj/COSC4P02">https://github.com/rc21mj/COSC4P02</a>	6a2f5b1	 
 WillYochim committed 4 days ago		
Finish image uploading to linkedin logic	82687c2	 
 WillYochim committed 4 days ago		
Merge branch 'main' of <a href="https://github.com/rc21mj/COSC4P02">https://github.com/rc21mj/COSC4P02</a>	b9a0d1d	 
 WillYochim committed 4 days ago		
MakeAPost change and Dashboard additions.	17f8d0d	 
 WillYochim committed 4 days ago		
Merge branch 'main' of <a href="https://github.com/rc21mj/COSC4P02">https://github.com/rc21mj/COSC4P02</a>	ea1194e	 
 WillYochim committed 4 days ago		
Minor change	1ab6dbb	 
 WillYochim committed 4 days ago		
Remove .DS_Store files and add .gitignore to exclude them; update README for backend navigation	9d84a13	 
 WillYochim committed 4 days ago		
Remove unnecessary files and unused functions. Add in dashboard.	5599e79	 
 WillYochim committed 4 days ago		

Commits on Apr 21, 2025		
Update linkedinAPI.py 	 595a758	 
 WillYochim authored last week		
Update mergedApp.py 	 90a4df1	 
 WillYochim authored last week		
Commits on Mar 21, 2025		
Update scraper to include business, arts and travel	fab806e	 
 WillYochim committed on Mar 21		
Commits on Mar 19, 2025		
Demo	8621aed	 
 WillYochim committed on Mar 19		
Demo prep	e199812	 
 WillYochim committed on Mar 19		
Merge branch 'main' of <a href="https://github.com/rc21mj/COSC4P02">https://github.com/rc21mj/COSC4P02</a>	6d9ccd4	 
 WillYochim committed on Mar 19		
Demo prop (posting + added pages)	194ec7a	 
 WillYochim committed on Mar 19		

Commits on Mar 15, 2025	
Update linkedinAPI.py 	<span>Verified</span> ba52313  
Commits on Mar 7, 2025	
Add files via upload	<span>Verified</span> 383fff2  
Commits on Mar 2, 2025	
Create linkedinImplementation.html	<span>Verified</span> e95a14d  
Create flaskLinkedinTEMP.py 	<span>Verified</span> 221a4dd  
Create linkedinAPI.py 	<span>Verified</span> 0e90f8a  
Commits on Feb 17, 2025	
Create app.py	<span>Verified</span> 085e0d7  
Create index.html	<span>Verified</span> 9e6e9ef  


































Commits on Feb 3, 2025	
Create sampleFlaskApp.py	<span>Verified</span> 1bff263  
Create linkedinAPI.py	<span>Verified</span> 6fe4534  
Delete Sprint1/Scrum97	<span>Verified</span> 09ae5bc  
Create Scrum97	<span>Verified</span> 820f564  
Commits on Jan 10, 2025	
Update README.md	<span>Verified</span> cd5c2b3  
Update README.md	<span>Verified</span> 1003610  
Update README.md	<span>Verified</span> ff2a378  
Update README.md	<span>Verified</span> d5cab32  
Update README.md	<span>Verified</span> 7ff93f8  
Update README.md	<span>Verified</span> cee0512  
Rename PostPinoer.png to PostPioneer.png	<span>Verified</span> 854f41e  

## Shihab

- Front end design
- Backend Ollama integration
- Automated testing using Pytest
- Focused on backend logic for API integration with LinkedIn and Twitter + model interaction through Ollama and web scraping
- Web scraping
- Prompt engineering
- Documentation
- Scrum master

Commits on Apr 24, 2025			
Updated registration restrictions	shihabkhateeb authored 4 days ago	Verified	748e617
Commits on Apr 23, 2025			
created web scraper test files	shihabkhateeb authored 4 days ago	Verified	34f16d9
batch meeting notes upload	shihabkhateeb authored 4 days ago	Verified	a416ac9
scheduler testing, other testing overhauled.	shihabkhateeb committed 4 days ago		d99aaf1
placeholder function deleted, requirements update.	shihabkhateeb committed 4 days ago		9dad57a
Commits on Apr 22, 2025			
Created test_twitter.py	shihabkhateeb authored 5 days ago	Verified	db6c8bb
Create linkedin_testing.py	shihabkhateeb authored 5 days ago	Verified	163729f
Update README.md for backend running.	shihabkhateeb authored 5 days ago	Verified	f56d771

Commits on Apr 20, 2025	<div>updated requirements.txt for venv creation.</div> <div>  shihabkhateeb authored last week           <div>Verified</div> <div>d0807e7</div> <div>   </div> </div>
Commits on Apr 19, 2025	<div>File reorganization, delete Sprint1</div> <div>  shihabkhateeb authored last week           <div>Verified</div> <div>bd77304</div> <div>   </div> </div>
Commits on Apr 5, 2025	<div>Update README.md</div> <div>  shihabkhateeb authored 3 weeks ago           <div>Verified</div> <div>393b85a</div> <div>   </div> </div>
Commits on Mar 23, 2025	<div>meeting notes batch upload</div> <div>  shihabkhateeb authored on Mar 23           <div>Verified</div> <div>20d1b6f</div> <div>   </div> </div>
Commits on Mar 15, 2025	<div>Home page addition, main app updates to match.</div> <div>  shihabkhateeb authored on Mar 15           <div>Verified</div> <div>2a281e8</div> <div>   </div> </div> <div>fixed ui issues with Posting.</div> <div>  shihabkhateeb authored on Mar 15           <div>Verified</div> <div>91adf12</div> <div>   </div> </div>
Commits on Mar 6, 2025	<div>basic webscraper added</div> <div>  shihabkhateeb authored on Mar 6           <div>Verified</div> <div>bcae060</div> <div>   </div> </div>
Commits on Feb 18, 2025	<div>Updated UI to include multiple platforms.</div> <div>  shihabkhateeb committed on Feb 18           <div>Verified</div> <div>204d3b5</div> <div>   </div> </div>

Commits on Feb 3, 2025	<div>14-1-25 Meeting with Stakeholder</div> <div>  shihabkhateeb authored on Feb 3           <div>Verified</div> <div>bcc21ec</div> <div>   </div> </div> <div>18-1-25 Meeting Notes</div> <div>  shihabkhateeb authored on Feb 3           <div>Verified</div> <div>8382d48</div> <div>   </div> </div> <div>16-1-25 Meeting Notes</div> <div>  shihabkhateeb authored on Feb 3           <div>Verified</div> <div>d31e5e4</div> <div>   </div> </div> <div>15-1-25 Meeting Notes</div> <div>  shihabkhateeb authored on Feb 3           <div>Verified</div> <div>a8a1eb9</div> <div>   </div> </div> <div>14-1-25 Meeting Notes</div> <div>  shihabkhateeb authored on Feb 3           <div>Verified</div> <div>ff172d6</div> <div>   </div> </div> <div>Create 10-1-25 Meeting</div> <div>  shihabkhateeb authored on Feb 3           <div>Verified</div> <div>6199295</div> <div>   </div> </div>
Commits on Jan 19, 2025	<div>Add files via upload</div> <div>  shihabkhateeb authored on Jan 19           <div>Verified</div> <div>1e20e5b</div> <div>   </div> </div> <div>replaced release plan file.</div> <div>  shihabkhateeb authored on Jan 19           <div>Verified</div> <div>0d41aed</div> <div>   </div> </div> <div>Release planning document uploaded.</div> <div>  shihabkhateeb authored on Jan 19           <div>Verified</div> <div>c4ba449</div> <div>   </div> </div>
Commits on Jan 12, 2025	<div>8-1-25 Meeting Notes</div> <div>  shihabkhateeb authored on Jan 12           <div>Verified</div> <div>eba2ed8</div> <div>   </div> </div> <div>Project proposal uploaded.</div> <div>  shihabkhateeb authored on Jan 12           <div>Verified</div> <div>643d2bf</div> <div>   </div> </div>

## Known issues

- Payment plan works and updates users but the features do not care about the payment plan, this could be solved through adding logic on the make a post page to check the user's payment plan and rendering corresponding elements. Furthermore, the backend would verify the user payment plan, just in case a user called the endpoint without using the UI.
- Dashboard edit schedule timing button stopped functioning so was removed for the time being, a front-end commit likely broke it as it was functioning previously.
- Rarely, uploading an image and certain form data can cause an error in the "make a post" form. This is difficult to replicate so the issue could not be fixed at the time of writing.
- Generation speed is slow if the hardware provided for the backend is weaker as the generation is locally hosted.
- Sometimes the mail endpoint that the support form is connected to can go offline, so be aware of the status of formsubmit.co

## Conclusion

One of the key principles of Agile is to embrace change, expecting system requirements to evolve and designing the system to adapt accordingly.

Throughout the project, we faced several challenges that required us to rethink our sprints, rework our timeline, and adapt our communication strategy to stay aligned as a team. By accepting change as part of the process, we became more flexible and solution-focused.

This experience gave us a real-world understanding of what it means to work on a software engineering project — from collaboration and tool usage to strategic pivots. These lessons will be something we embrace as we carry forward the mindset of adaptability, teamwork, and continuous learning into our future careers.