



Report on Sajilotantra

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## Introduction

Sajilotantra is a website where anyone can find the step by step guidance for any kind of bureaucratic process and a community forum to express the government frustration. Combining the spirit of community empowerment and innovative technology, it is based on the Django framework. Sajilotantra stands out as a ray of hope in a nation where bureaucratic complexity frequently makes inequality in society worse by providing straightforward solutions to long-running problems.

Community forum acts as a virtual arena where people can post their views, encouraging discussion, experience sharing, and group problem-solving. Beyond its technical capabilities, Sajilotantra is a symbol of availability and equality. Through explaining government processes and providing clear direction, it enables people from diverse backgrounds to engage in community life.

Sajilotantra assists in closing the communication gap between the public and their government by providing vital service information and the locations of government offices in an organized way. In addition to save time and frustration, it also promotes a feeling of responsibility and belonging in the society. Furthermore, it contributes to the creation of a more equal society where each voice is respected and heard by utilizing technology to advance transparency and responsibility.

Sajilotantra is essentially a vision for a society that is more connected, knowledgeable, and empathic than it is just a digital platform. Leveraging technology and community involvement, it creates the conditions for a future in which bureaucratic barriers are reduced and civic engagement flourish. By using an innovative strategy, Sajilotantra aims to create a equitable society by accelerating positive social change.

**Figure 1:**

*Tools and Technologies*



## **Problem Statement**

One major problem that Nepalese citizens face is that they are not motivated or interested in participating in bureaucratic processes because of a number of common problems. People are generally frustrated and uninspired because there are no clear guidelines or support systems available to them. This issue is made worse by a lack of clear and easily available information, which leaves people unprepared to deal with government procedures.

The complexity is increased by the fact that interaction with customer service representatives or receptionists employed by the government sometimes grows bad or aggressive. People are rudely greeted and sent from one office to another without assistance, which causes frustration and wastes time.

In addition, the current environment of selfishness and manipulation discourages individuals from asking for help because those who do so frequently take advantage of their weakness for their own gain. In addition to undermining public confidence in the system, this misuse creates an endless loop of citizen dissatisfaction and disinterest. For instance, school nowadays give certificate by themselves collecting form NEB and charging more than its took.

The population's sense of excluded and socioeconomic progress are hampered by these fundamental inefficiency, which also pose a serious obstacle to citizen engagement and participation in bureaucratic procedures. A comprehensive strategy that puts transparency, accountability, and citizen-centric service delivery first is needed to address these issues.

## **Agile Process**

For our group project, we chose the Agile methodology since it provided an efficient way to approach the creation of our website Sajilotantra. One of the primary benefits of Scrum was its emphasis on frequent communication and feedback loops. Through daily stands-up meetings, sprint planning sessions, and sprint reviews, our team members stayed aligned on project goals, shared progress, and addressed any impediments promptly. Scrum divided it into more doable, smaller tasks. With this incremental strategy, we were able to concentrate on finishing short work intervals, or sprints, before going on to the next. Like creating a jigsaw puzzle, we began with the outer parts and worked our way toward the center. Because we were only working on a tiny portion of the project at a time, it was much easier to adjust if we ran into any issues or wanted to make modifications.

We use the RYG (Red Yellow Green) prioritizing technique to efficiently divide work. To do this, features were categorized into three groups: red for high importance, yellow for medium priority, and green for low priority. Our choice-making procedure was based on a number of factors, including dependencies between features, how uniqueness and value addition, and alignment with the project's main goal. We give user stories priority levels by carefully assessing these factors, going from red to yellow according to significance and impact.

The user story mapping provides a visual representation of our project's user-centric approach, outlining the key features and functionalities prioritized for each release. The release plan illustrates our timeline for delivering these features, while the sprint backlog highlights my role in coordinating tasks and ensuring their successful completion within the sprint.

## User Story with Priority

**Figure 2:**

### User Story with Priority

Feature Id	Feature Name	User Story ID	As a	I want to	So that I can	Acceptance Criteria
1	User Account	1.1	User	create an account	be a user of the application.	Required fields email, password, confirmed, firstname, lastname should be filled out. Confirmation mail should be sent to provided email. Validation on the field Buttons like sign in and signup
		1.2	User	login using my login credentials	access the dashboard.	The Form should be properly validated. After logging in, user should be redirected to dashboard. The user can only login with registered credentials.
		1.3	User	change my password	keep my account secured.	The user must be able to enter their current password. The user must be able to access the "Change Password" option from their account settings page. The user must be able to enter their new password twice for confirmation.
		1.4	User	recover password	Regain access to my account if I forget my password.	A recover/forgot password button. Should send and a link/OTP to recover.
		1.5	User	have a remember me feature during login	save my account for easy login.	Remember me checkbox should be there. On clicking checkbox it should remember and on next Signin it should auto fill the fields itself.
2	Dashboard	2.1	User	get a dashboard upon successful login	access the features for general users.	User must sign in. Frontend layout → Forum, Search button, navigation bar, Guidance, Events Drop down for account settings. Create post modal
		2.2	Admin	get an admin dashboard upon successful admin login	manage data of the application.	Separate end point for admin login Access to authorized tables in database User permission
		2.3	User/Admin	have a logout option in the dashboard	keep my account safe and also switch accounts.	Logout Button should be presented. On clicking logout it should redirect to login page.
		2.4	User	have a search area	search profile accordingly.	Keywords should render its appropriate profile.

**Figure 3:**

### User Story

3	Document Assistance	3.1	Admin	add document guides	simply the bureaucratic process to get any document required.	Required Fields: Title, Description, Thumbnail, Category. There should be a text editor for description field. Admin should have CRUD access.
		3.2	User	see all the document guides available	know what steps do I need.	Step by Step guidance should be there. It should be interactive. Description about them should be shown.
4	Government Profiles	4.1	Admin	create any government profiles	know the services facilitated by the office.	Map should be integrated. There should be a text editor for description field. Admin should have CRUD access.
		4.2	User	see the profiles of the government offices	so that user can visit the government profiles.	Map should be integrated. Every offices page should be there. Description about them should be shown.
		4.3	Admin	edit the information in the government profiles	maintain real-time information.	After successful profile editing, the system should inform the user. Editing process must be secure and should only be done by admin. The system should respond quickly and reliably to admin action.
		4.4	Admin	remove any government profiles	remove any unnecessary guidance.	The Admin must be able to select one or more profiles they wish to remove. The system must successfully delete the selected profiles from the database, ensuring complete removal of data. System should provide a clear confirmation message to the admin upon successful profile removal.
		4.5	User	location of all government agencies near me in an interactive list	access the profiles near me	There should be all the government offices automatically added to a geographical map. The Map displayed should be corresponding to the User's Live geo location.

**Figure 4:***User Story*

4	Community Forum	S.1	User	Post in the community forum	Express my thoughts and experiences.	Text field to share experience. drop down to choose category of thoughts. a section to upload thumbnail.
		S.2	User	see the post made by other in my feed	know about other experiences as well.	Should be able to choose a category. Should be able to write captions. Should be able to view image properly.
		S.3	User	reply to posts on forum	Give my feedback about the topic	A section to reply A post button. Upon submitting the reply, the system should save it in the database and display it below the original post. A delete button to delete the post
		S.4	User	like a certain post	show appreciation.	like button should be there. after liking it should increase its points.
		S.5	User	report inappropriate content	ensure a respectful space for all users	A holder in a post to report. after reporting should go in admin panel.
		S.6	Admin	review and manage user posts	ensure a safe and respectful community environment	Provide option to approve, edit, delete, or hide user posts. Notify admin about newly posted or reported posts that need attention. Ensure only admin accounts have access to review and manage user posts.
		S.7	User	delete my post	correct any errors, update outdated information,	Delete button on post. After deleting it should be deleted from database and dashboard.

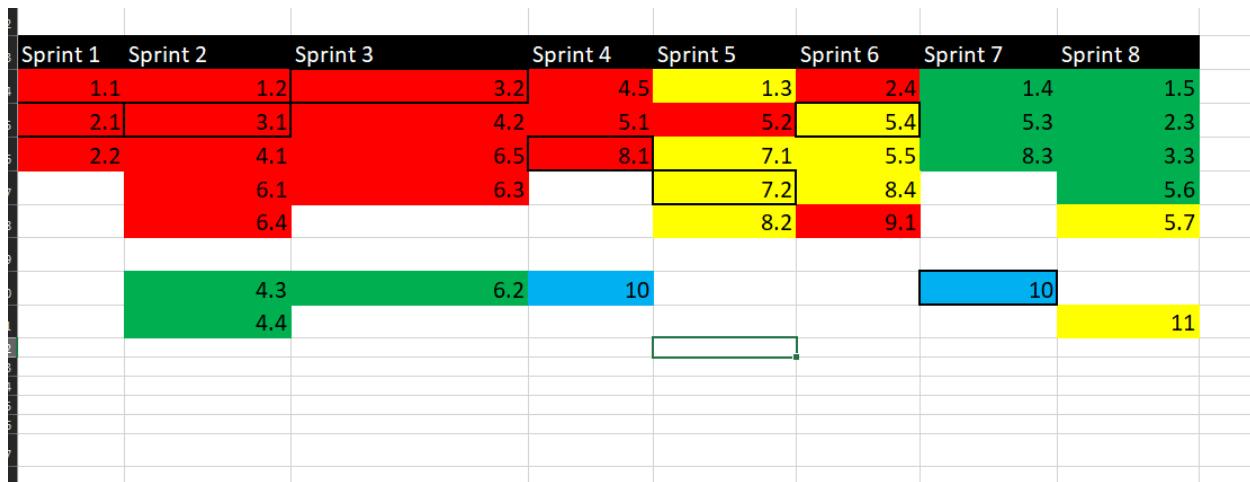
**Figure 5:***User Story*

6	Events and notices	E.1	Admin	put upcoming events in calendar	notice the important events	Required Fields: Title, Date, Thumbnail, Description. There should be a text editor for description field. Admins should have CRUD access.
		E.2	Admin	add upcoming events in forum	user can find the events accordingly	
		E.3	User	see upcoming events in homepage	users can easily see which events are going to happen soon.	A calendar should popup. title should occupy space from start to end date. On click it should show the description.
		E.4	Admin	add notice for the users	send the necessary notice to all users.	Required Fields: Title, Description. There should be a text editor for description field. Admin should have CRUD access. Should be separated by whom its posted.
		E.5	User	see a notice section	view the notice published by the local/provincial/central government	Notice section in user UI. When and who added the notice should be shown. View all button should be there.
7	Feedback	F.1	User	access a feedback form	share suggestions or issues.	Provide options for users to categorize their feedback (e.g., feature requests, bugs, usability issues) for easier sorting and prioritization. Submitted feedback should be visible only to admin.
		F.2	Admin	see the feedback given by user	ensure essential issues are addressed promptly	The admin should be able to filter and search feedback based on date. The admin should be able to access and view all feedback submitted by users through dedicated feedback forms.
8	User Profiles	G.1	User	have a personal profile section	share my profile.	A section to add profile picture. Text field to add on bio.
		G.2	User	update my personal details	maintain real-time information.	The user should be able to modify specific fields such as bio, profile picture, cover image etc. Once the changes are saved, the system should reflect the updated information immediately. After successful update, display a confirmation message indicating that the changes have been saved.
		G.3	User	add a profile picture	make my profile visually appealing	Button to click to add profile. After adding it should show the same profile that user added.
		G.4	User	see all the posts I made	keep track of things I shared.	The user must be able to log in or be recognized by the system to access their personal posts.

## Story Mapping

Figure 6:

*Story Mapping*



The highlighted User Story Id is done by me.

## Map Board

**Figure 7:**

*Map Board*

Release Theme: Sajjlotantra									
The Backbone	Feature 1	Feature 2	Feature 3	Feature 4	Feature 5	Feature 6	Feature 7	Feature 8	Feature 9
Flesh on backbone	User Account	Dashboard	Document Assistance	Government Profiles	Community Forum	Events and Notice	Feedback	User Profile	Optimization
Sprint 1	Create Account(1.1)	User Dashboard(2.1)							
Sprint 2	Login(1.2)		Add Guides(3.1)	Add Government profiles(4.1)		Add Notices(6.1)	Add Events(8.4)		
Sprint 3			View Guides(3.2)	View Government Profiles(4.2)		View Upcoming Events(6.3)	See notification(6.5)	Add Upcoming events(2)	
Sprint 4				Map with all govt. profiles(4.5)	Post in forums(5.1)			Have personal Profile(8.1)	Phase I (srichak)
Sprint 5	Change Password(1.3)				See post in Dashboard(5.2)		View Feedback form(7.1)	Update Personal Details(8.2)	
Sprint 6		Search Portion(2.4)			Like Post(5.4)	Report Inappropriate posts(5.5)	Get feedbacks in forum(7.2)	Own post in Own profile(8.4)	Post optimized in feed(9.1)
Sprint 7	Recover Password(1.6)				Comment on post(5.3)			Add Profile Picture(8.3)	Phase II (nikesh & Ashish)
Sprint 8	Reminder Mail(1.5)	Logout(2.3)			Curate Post(5.7)				

Highlighted with border portion is done by me.

## Release Plan

**Figure 8:**

*Release Plan*

SPRINT	USER STORY ID	FEATURE TYPE	START	FINISH	DURATION (In Hours)	STORY POINTS	STATUS	RELEASE DATE
1	1.1	Functionality	12/4/2023		18	3	Released	12/10/2023
1	2.1	Functionality			18	3	Released	12/10/2023
1	2.2	Functionality			18	3	Released	12/10/2023
2	1.2	Functionality	12/10/2023		12	2	Released	12/17/2023
2	3.1	Functionality			12	2	Released	12/17/2023
2	4.1	Functionality			12	2	Released	12/17/2023
2	6.1	Functionality			12	2	Released	12/17/2023
2	6.4	Functionality			12	2	Released	12/17/2023
3	3.2	Functionality	12/18/2023		18	3	Released	12/24/2023
3	4.2	Functionality			18	3	Released	12/24/2023
3	6.3	Functionality			12	2	Released	12/24/2023
3	6.5	Functionality			12	2	Released	12/24/2023
4	5.1	Functionality	12/25/2023		24	4	Released	12/31/2023
4	8.1	Functionality			24	4	Released	12/31/2023
4	4.5	Functionality			12	2	Released	12/31/2023
5	5.2	Functionality	1/1/2024		18	3	Released	1/7/2024
5	5.6	Functionality			18	3	Released	1/7/2024
5	1.3	Functionality			18	2	Released	1/7/2024
5	7.1	Functionality			12	2	Released	1/7/2024
5	8.2	Functionality			12	2	Released	1/7/2024
6	2.4	Functionality	1/8/2024		18	3	Released	1/14/2024
6	5.4	Functionality			12	2	Released	1/14/2024
6	5.5	Functionality			12	2	Released	1/14/2024
6	8.4	Functionality			12	2	Released	1/14/2024
6	9.1	Functionality			18	3	Released	1/14/2024
7	7.1	Functionality	1/15/2024		12	2	Released	1/21/2024
7	7.2	Functionality			6	1	Released	1/21/2024
7	8.2	Functionality			12	2	Released	1/21/2024
7	8.4	Functionality			18	2	Released	1/21/2024
8	1.5	Functionality	1/22/2024		6	1	Released	1/28/2024
8	1.4	Functionality			6	3	Released	1/28/2024
8	2.3	Functionality			6	1	Released	1/28/2024
8	3.3	Functionality			6	1	Released	1/28/2024

## Sprint Backlog

**Figure 9:**

## *Sprint 1 Backlog*

**Figure 10:**

## *Sprint 2 Backlog*

**Figure 11:**

### *Sprint 3 Backlog*

**Figure 12:**

## *Sprint 4 Backlog*

**Figure 13:**

## *Sprint 5 Backlog*

**Figure 14:**

## *Sprint 6 Backlog*

**Figure 15:**

## *Sprint 7 Backlog*

### **Role**

In this regard, I played a crucial role in the development of the "Sajilotantra" web-based application, where I showcased my skills in project management and development. Using various tech stacks, such as Django, Javascript, and TailwindCSS, I worked alongside my team using the MVT pattern to develop the application.

As the Scrum master, it was my responsibility to facilitate daily stand-ups, Sprint planning, sprint retrospectives, and grooming meetings. During sprint planning, I encouraged the team to discuss the features they were interested in and used poker cards to estimate the time required for each task. Based on the capability of each team member, I assigned tasks and used Trello to track their progress. Additionally, I used a Gantt chart to monitor the team's progress daily, which helped me to identify any potential delays. Apart from being the Scrum master, I also assigned some features to myself in every sprint to gain knowledge on coding.

During the sprint review meetings, I merged everyone's work into my branch and pushed it into the master branch on Github. In the initial sprints, I made mistakes while merging, which made the master branch unusable. However, I learned from my mistakes, and in the subsequent sprints, I was confident in handling any merge conflicts on github.

As I looked at team dynamics, I think that there were not many visible behavioral disputes, there were occasionally disagreements over understanding user stories. There were times when team members diverged from the project vision as it was stated, which resulted in a review process unhappiness and repeated work. As a result, I used to explain everything in sprint planning to reduce the likelihood of disagreements.

One instance that best illustrates cooperative problem-solving happened when given features proved difficult to finish, especially the 'Like Post' feature. In this case, a teammate helped another one, which made the assignment easier to finish. When faced with challenges, team members quickly helped with debugging and problem-solving, demonstrating a supportive relationship. In addition, collaborative methods like pair programming were done, which resulted in initial difficulty. Still, these obstacles were eventually overcome with the help of efficient communication, which led to the successful completion of the feature.

## **Argument**

The development of Sajilotantra is an attempt to take action on the actual difficulties that Nepalese citizens encounter when attempting to deal with governmental procedures. The software deals with important difficulties such lack of clear guidelines, support systems, and easily available information by providing step-by-step instructions and a community forum. Citizens frequently become frustrated, disengaged, and feel excluded as a result of these difficulties

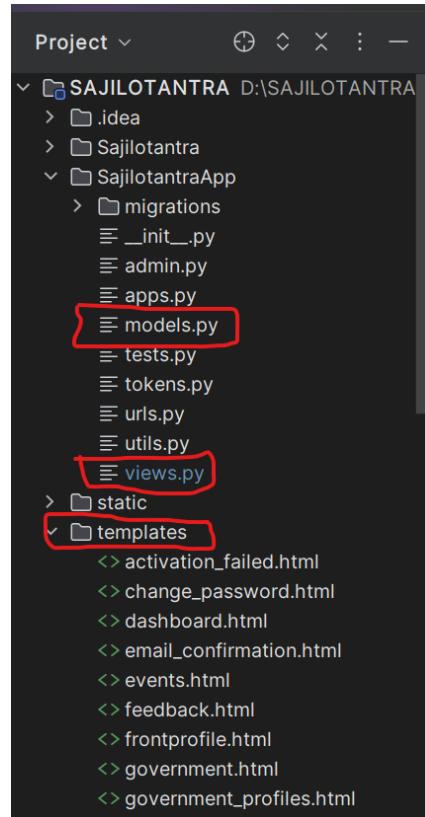
Although Sajilotantra's influence may be difficult to measure right away, its worth comes from its capacity to solve practical issues and provide people the tools they must effectively overcome bureaucratic obstacles. Sajilotantra offers workable answers and encourages community participation, which is a step toward a more open, fair and effective in Nepal. Given that Sajilotantra is intended to significantly improve the lives of Nepalese citizens, by giving guidance in document procedures.

## Evidence

We created Sajilotantra using Python's Django framework, and we used architecture called Model-View-Template (MVT) to organize everything. So, the Model is where we store all our data neatly in the database, kind of like how you organize your stuff in a drawer. Then, we have the View, which is like a helpful assistant that handles all the web requests and makes sure things run smoothly when you interact with the app. And lastly, there's the Template, which is where we put all the stuff that makes the app look good and work well, like HTML, CSS, and JavaScript. Putting it all together, MVT helps us keep things organized and running smoothly in Sajilotantra.

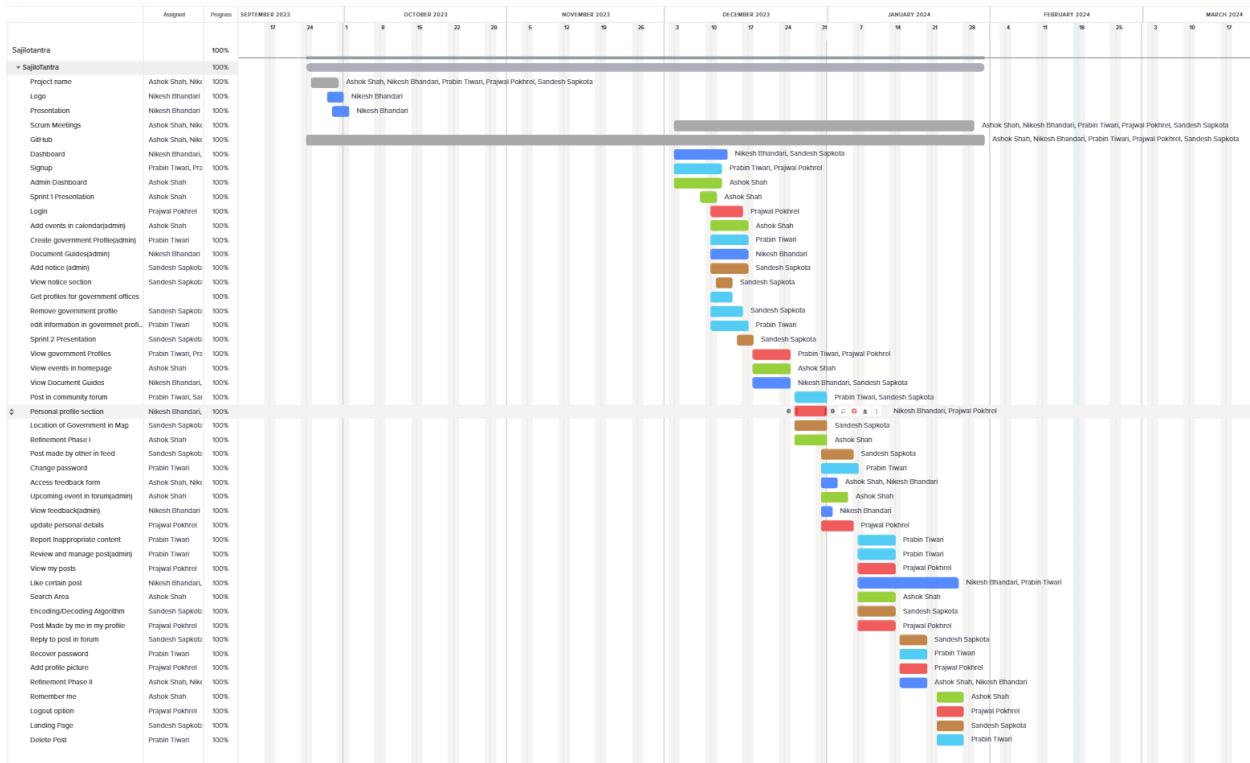
**Figure 16:**

*Code Architecture*

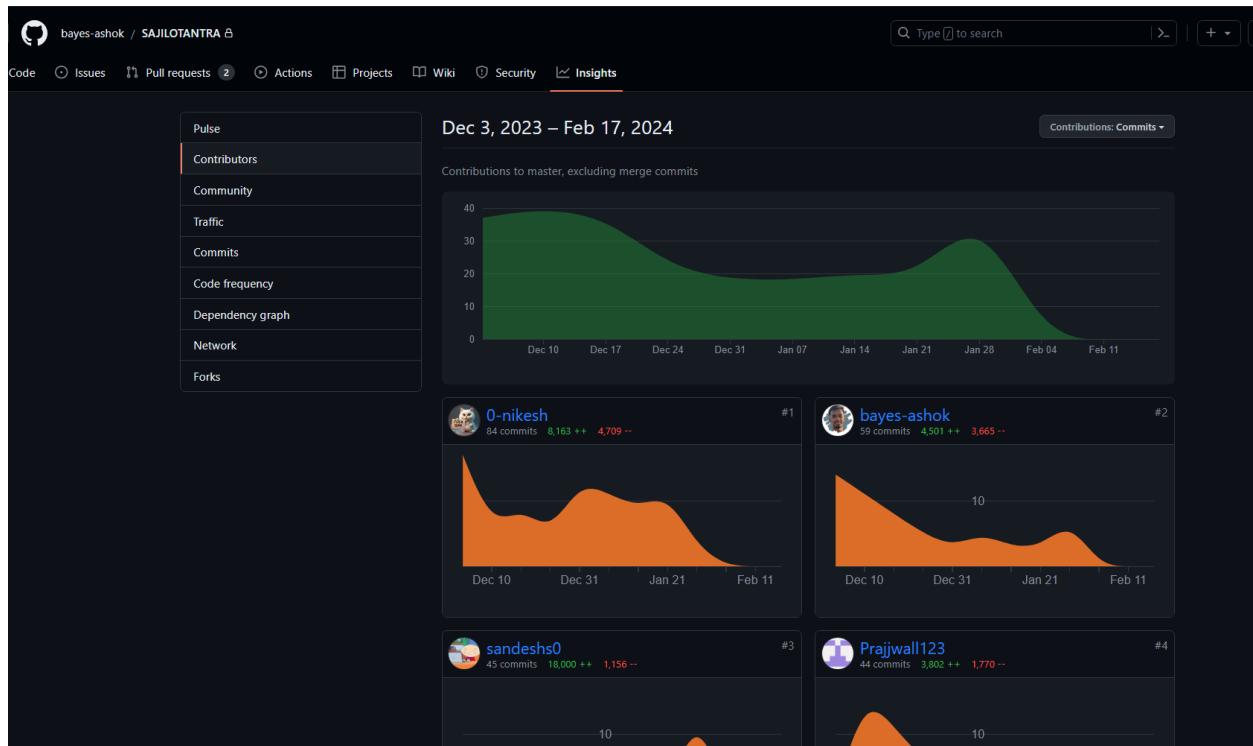


## Diagram 1:

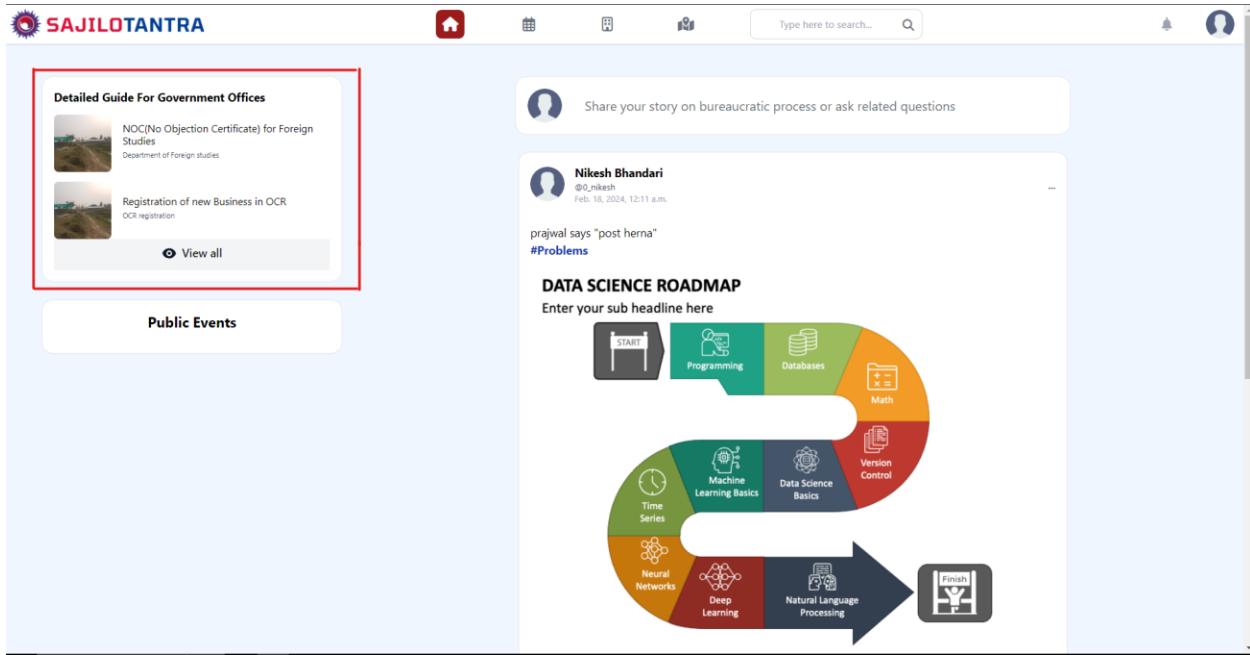
*Gantt Chart*



This is Gantt Chart which I used to track progress of my project Sajilotantra.

**Figure 17:***Contributions in Github*

This is my contribution on github.

**Figure 18:***Guide Card in Dashboard*

**Figure 19:***Guidance in Guide Page*

The screenshot shows a web browser window with multiple tabs open at the top. The active tab displays the 'SAJILOTANTRA' website, specifically the 'NOC(No Objection Certificate) for Foreign Studies' section. The page header includes the 'Department of Foreign studies' logo and the title 'NOC(No Objection Certificate) for Foreign Studies'. Below the title, there is a paragraph about the processing time for NOC in Nepal. A section titled 'Types of NOC' follows, with a note about two types of NOCs. Two numbered lists describe 'Academic NOC' and 'Financial NOC'. At the bottom, there is a section titled 'Steps to apply NOC Online' with a list of 7 steps. The browser interface includes a search bar, a user profile icon, and various system icons.

How many days does it take to get NOC in Nepal?  
It normally takes 2-3 business days to receive a No Objection Certificate (NOC) in Nepal after the documents have been verified. Following application clearance, the Ministry of Education (MOE) must be paid a charge of Rs. 2000.00 for each NOC at Rastriya Banijya Bank. It is conceivable that more supporting documentation or data will be needed for verification.

**Types of NOC:**  
When considering studying abroad, students may need to obtain two types of No Objection Certificates (NOCs).

1. Academic NOC: This type of NOC is issued by the student's current educational institution or the Ministry of Education in their home country. It confirms that the student is permitted to pursue higher education overseas without any objection from the institution or education authorities. Academic NOCs typically include details such as the student's name, educational background, intended course of study, and the duration of the program.

2. Financial NOC: Some countries or universities may require a Financial NOC as proof of the student's financial capability to cover the expenses of their education and living costs abroad. To obtain a Financial NOC, students or their sponsors are typically required to demonstrate sufficient funds through bank statements, sponsorship letters, or scholarship award letters. The Financial NOC helps ensure that the student will be able to meet the financial obligations associated with studying abroad.

**Steps to apply NOC Online:**

Location:Keshar Mahal, Kathmandu (adjacent to Garden of Dreams, Thamel)  
Website:<https://noc.moeest.gov.np>  
Email:This email address is being protected from spambots. You need JavaScript enabled to view it.

1. Visit the website and locate the "Apply for NOC" section.
2. Utilise the provided drop-down menu to input your personal details accurately.
3. Upload all the required documents relevant to your chosen sector.
4. Review your application thoroughly before clicking on the "Submit" button.
5. Take note of your unique application ID number, as it will be necessary for future correspondence regarding your NOC application.
6. The relevant authorities will evaluate your application, and you will receive a notification regarding the result via email or SMS.
7. Once your application is accepted, visit the website and retrieve your NOC using the special application ID number provided.

**Figure 20:***Backend of Feedback*

The screenshot shows the PyCharm IDE interface with the following details:

- Project:** SAJILOTANTRA (D:\SAJILOTANTRA)
- Current File:** views.py
- Code Content (views.py):**

```
 410 def feedback(request):
 411     auth_user = request.user
 412     user_profile, created = UserProfile.objects.get_or_create(user=auth_user)
 413     data={
 414         'user_profile':user_profile,
 415     }
 416     if request.method == 'POST':
 417         category = request.POST.get('category')
 418         suggestion = request.POST.get('Suggestion')
 419
 420         feedback = Feedback(category=category, suggestion=suggestion)
 421         feedback.save()
 422
 423         # Handle file uploads
 424         uploaded_files = request.FILES.getlist('user_avatar')
 425         for uploaded_file in uploaded_files:
 426             file_instance = UploadedFile(feedback=feedback, file=uploaded_file)
 427             file_instance.save()
 428         messages.success(request, "A new feedback is added go and check through!")
 429         # Redirect or render a thank you page
 430         return HttpResponseRedirect('feedback') # Replace '/thank-you/' with your desired URL
 431
 432     return render(request, 'feedback.html',data)
```

- Toolbars and Status Bar:** Current File, Plugins supporting \*.py files found, Install Python plugin, Ignore extension, Python, tabnine, 432:1, CRLF, UTF-8, 4 spaces.

**Figure 21:***Feedback in Admin Panel*

The screenshot shows a feedback submission form within an admin panel. At the top left, there are tabs for 'General' and 'Uploaded files', with 'General' being the active tab. On the right side, there is a vertical stack of five action buttons: 'Save' (green), 'Delete' (red), 'Save and add another' (teal), 'Save and continue editing' (blue), and 'History' (grey). The main form area contains two fields: 'Category\*' with the value 'Feature Request' and 'Suggestion\*' with the value 'I want aaccordion in guide section'. Below these fields is a large, empty text area.

**Figure 22:***Feedback with multiple Image*

The screenshot shows a user interface for managing uploaded files. At the top, there are two tabs: "General" and "Uploaded files", with "Uploaded files" being the active tab. Below the tabs, there is a table structure for listing uploaded files.

File	Delete?
Currently: static/feedback_files/board_neha_i641QF2.png Change: <input type="button" value="Choose File"/> No file chosen	<input type="checkbox"/>
Currently: static/feedback_files/board_mFzbqqV.png Change: <input type="button" value="Choose File"/> No file chosen	<input type="checkbox"/>
+ <input type="button" value="Choose File"/> No file chosen	<input type="button" value="Remove"/>
+ <input type="button" value="Choose File"/> No file chosen	<input type="button" value="Remove"/>
+ <input type="button" value="Choose File"/> No file chosen	<input type="button" value="Remove"/>
<input type="button" value="Add another Uploaded file"/>	

## Conclusion

In conclusion, Sajilotantra's development process has served as a reminder of the strength of teamwork, commitment, and lifelong learning. I've had the honor of experiencing the amazing impact of collaborative working and agile approaches in realizing my goal as both a Scrum master and a developer.

Along the road, I've encountered challenges and setbacks, but each one has given me the opportunity to grow and improve. Every experience I've had has strengthened my determination whether it's solving complex merge conflicts or working on difficult technical features.

In addition, my team's sense of unity and support for one another has been priceless. By fostering a culture of trust and teamwork, whether through pair programming sessions or cooperative problem-solving, I've been able to overcome hurdles and accomplish my goals.

As we move forward, I have no doubt that Sajilotantra will flourish and keep changing as an essential instrument for empowering Nepalese people and encouraging more accountability and openness in our society. We've set up the foundation for a society that is more connected, informed, and compassionate by utilizing technology and community involvement.

I am really happy of all that we have accomplished together, and I look forward to Sajilotantra's continued contributions to our community. Above all, this experience has highlighted the priceless lessons learned from using frameworks like Django and platforms like Github, which have been essential to our development efforts.

## References

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**Link**

Trello Link:

<https://trello.com/invite/b/iK23mm8H/ATTI7dfee035fb082274a460db4678b689a319947931/bac>  
klog

Excel Sheet: [https://livecoventryac-my.sharepoint.com/:x/g/personal/bhandar21\\_uni\\_c Coventry\\_ac\\_uk/EbuZxgkrtgdMo91JCZEJ5JsBy8Xt9aN Cm37jExG6cDgPVA?e=UNwPeC](https://livecoventryac-my.sharepoint.com/:x/g/personal/bhandar21_uni_c Coventry_ac_uk/EbuZxgkrtgdMo91JCZEJ5JsBy8Xt9aN Cm37jExG6cDgPVA?e=UNwPeC)

Github Link: <https://github.com/bayes-ashok/SAJILOTANTRA>

Youtube Link: [https://youtu.be/Cy\\_x6FuxpSI](https://youtu.be/Cy_x6FuxpSI)

Figma Link:

<https://www.figma.com/file/Gk1mQ560YxTKCKFaSr wWrL/Sajilotantra?type=design&node-id=0%3A1&mode=design&t=p6LYuhXKYl02BxJ1-1>