

SW Engineering CSC 648/848 Fall 2024

GAITOR GATE

Section 02

Team 3

URL: <http://18.222.76.244:8000/>

Team Lead: Jared Aung (yaung2@sfsu.edu)

Front End Lead: Ulices Gonzalez

Back End Lead: Andre Dargani

Github Master & Front End Engineer: Mowtee Sailan

Front/Back End Engineer: Marco Barraza

Back End Engineer: Sergio Aguilar

Department of Computer Science, San Francisco State University

Professor. Henry Villar

April 22nd, 2025

History Table

Version	Date Submitted	Date Revised	Description
1.0	05/12/2025		Initial Submission

1. Product Summary

GAITOR GATE is an intelligent and streamlined search engine that helps users discover, filter, and engage with software tools tailored to their needs. It simplifies the tool discovery process by offering advanced filtering options and recommending tools favored by the community.

Designed for students, professionals, and researchers seeking AI tools, as well as for AI developers and companies to showcase their tools, GaitorGate provides a clean and intuitive UI/UX. Its goal is to make the complex process of finding the right tool simple, secure, fast, and user-centric.

Committed P1 Functions Deliverables

1. Users can register for an account, log in, and log out securely.
2. Users can search for tools using natural language text and keywords and filter results by Category (Academic Assistance, Productivity, Career Development, Code Assistance, Mental Health Support, Creative Applications) Platform (Web application, mobile application, browser extension, API) , and publishing year.
3. Search results are displayed in a paginated format with tool thumbnails, descriptions, and links to a dedicated tool page where users can find out more information about the specific tool.
4. Unregistered users shall only be authorized to use the search functionality and chatbot.
5. Logged-in users can rate a tool on a scale of 1 to 5 and leave reviews for tools and view other users' reviews.
6. The registered users shall be able to favorite and unfavorite tools.
7. The search query shall be added to the search history of a registered user. The user shall have access to their history and be able to delete history records.
8. The search results shall be ranked by highest rated to lowest by default but the user shall be able to change the ranking in terms of the following (alphabetical, highest reviews, recency)
9. The system shall offer similar UI/UX and different functionalities for different types of account (Student, General Public, AI Developers & Companies).
10. Users with company accounts shall be able to upload tools, edit their tools and access user engagement on their tools (ratings and reviews)

2. Milestone documents

Milestone 1 Document
Milestone 2 Document
Milestone 3 Document
Milestone 4 Document

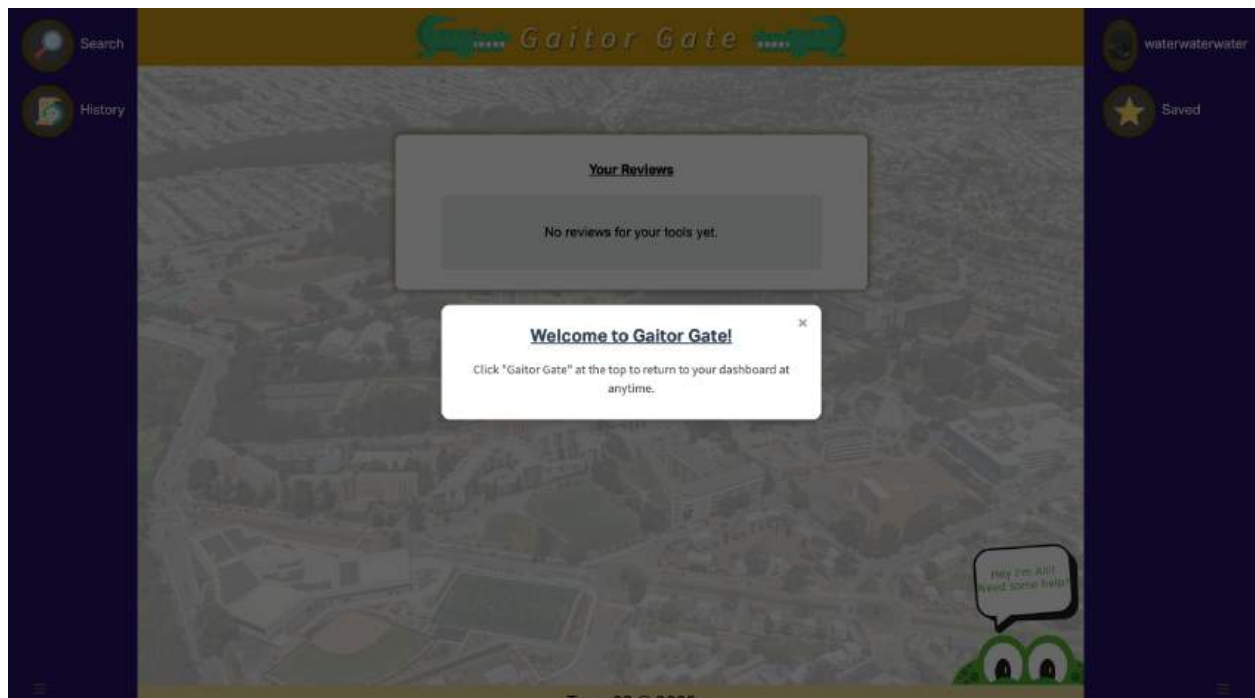
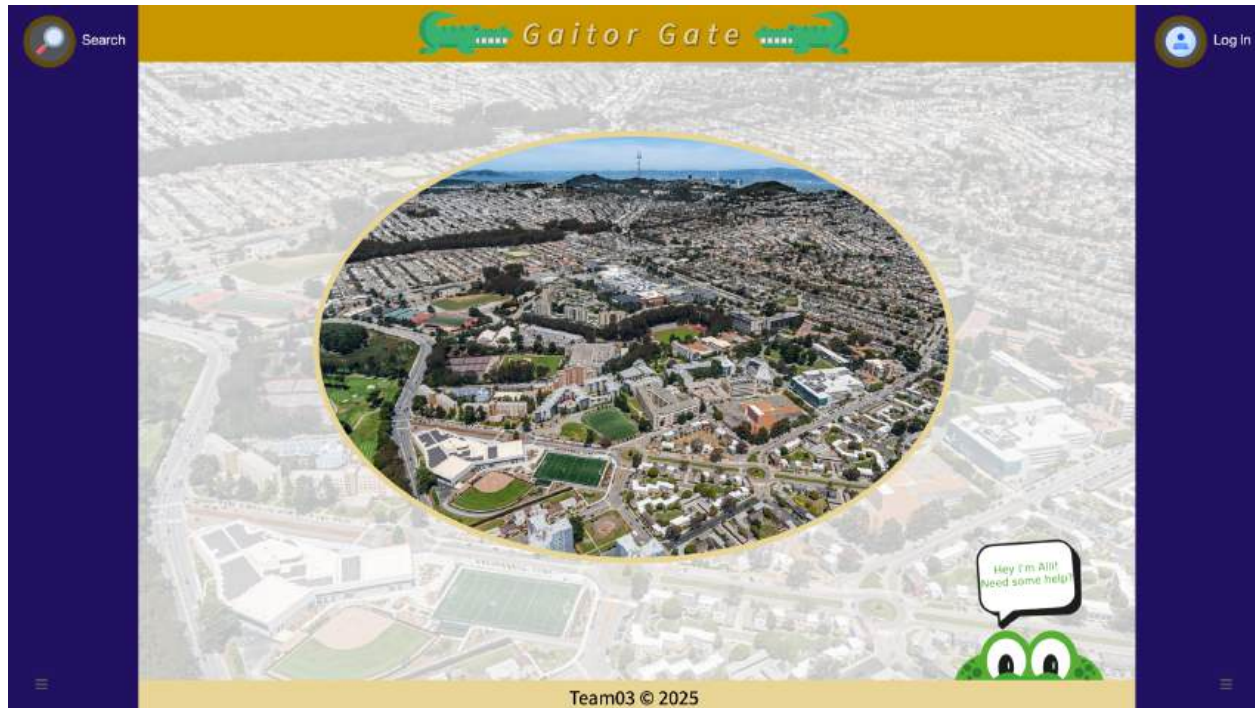
For Milestone 1, we received feedback highlighting several areas for improvement and refinement. On the title page, we were asked to clearly list each team member's role, which we have now updated accordingly. The executive summary was noted as being on the right track but needed a clearer structure, more explicit focus on the problems GAITORGATE solves, and a stronger conclusion. We addressed this by stating unique features such as Alli Gator chatbot and advanced filtering. Our personas were well-received but required more detail on user behavior and technical comfort, as well as a more structured format, which we implemented in our revision. The list of main data items and entities was approved without any required changes. For the initial functional requirements, we were encouraged to add more specificity regarding AI tool matching, user feedback systems, and scalability. These suggestions were incorporated to provide better clarity and support for future development.

For Milestone 2, we received positive feedback noting that our documentation is well-structured and demonstrates a strong grasp of project requirements. Our prioritized functional requirements were clear and detailed, with only minor suggestions to improve numbering, justification, and consistency. We addressed these by refining the numbering scheme and clarifying the reasoning behind our prioritization tiers. The UI mockups and storyboards were conceptually solid, but formatting needed improvement. We responded by adjusting the spacing, alignment, and labeling to improve clarity and readability. Our database design was recognized as being on the right track, but the ERD diagram required better clarity in showing relationships and data flow. We revised the diagram to enhance visual communication and ensure accurate mapping of entity relationships. Both the CEO/CTO and instructor feedback emphasized that we are on track and encouraged us to stay ahead by focusing on refining the prototype and continuing to address feedback moving forward.

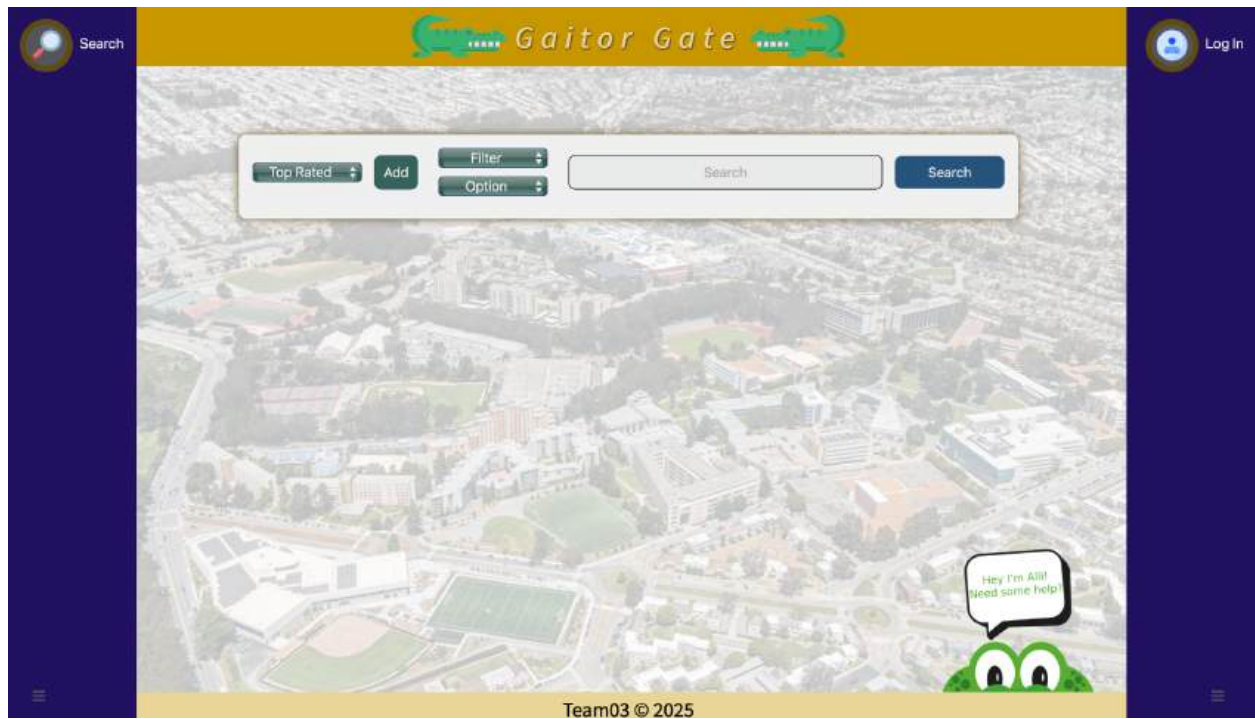
For Milestone 4, we received feedback acknowledging the quality of our overall testing design plan and documentation. The CEO/CTO advised us to finalize clear descriptions of what makes GAITORGATE unique compared to competitors, which we addressed by revising our executive summary to explicitly highlight features like AI-driven summaries with citations, and community-based tool recommendations. The instructor confirmed we are on track, with minor improvements needed. We took this into account by refining key documentation sections for clarity and completeness. With feedback incorporated, our focus now shifts to polishing the product and preparing the final deliverables for Milestone 5.

4. Product Screenshots

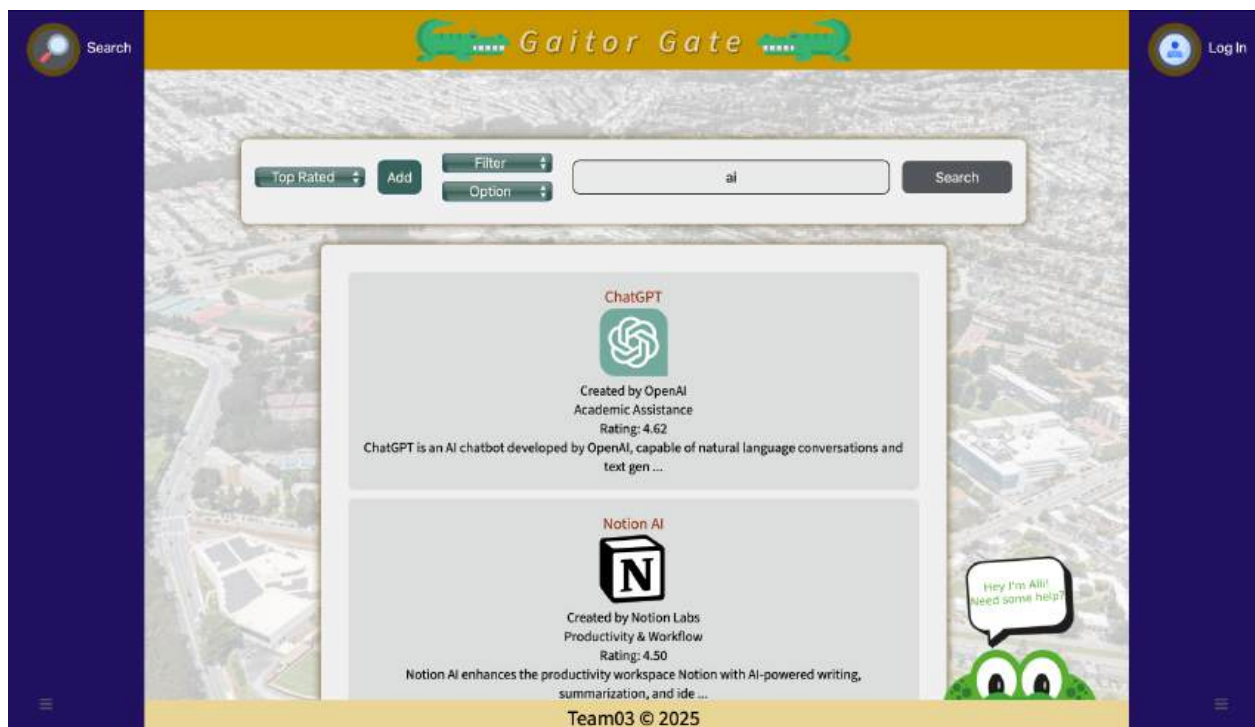
Landing page



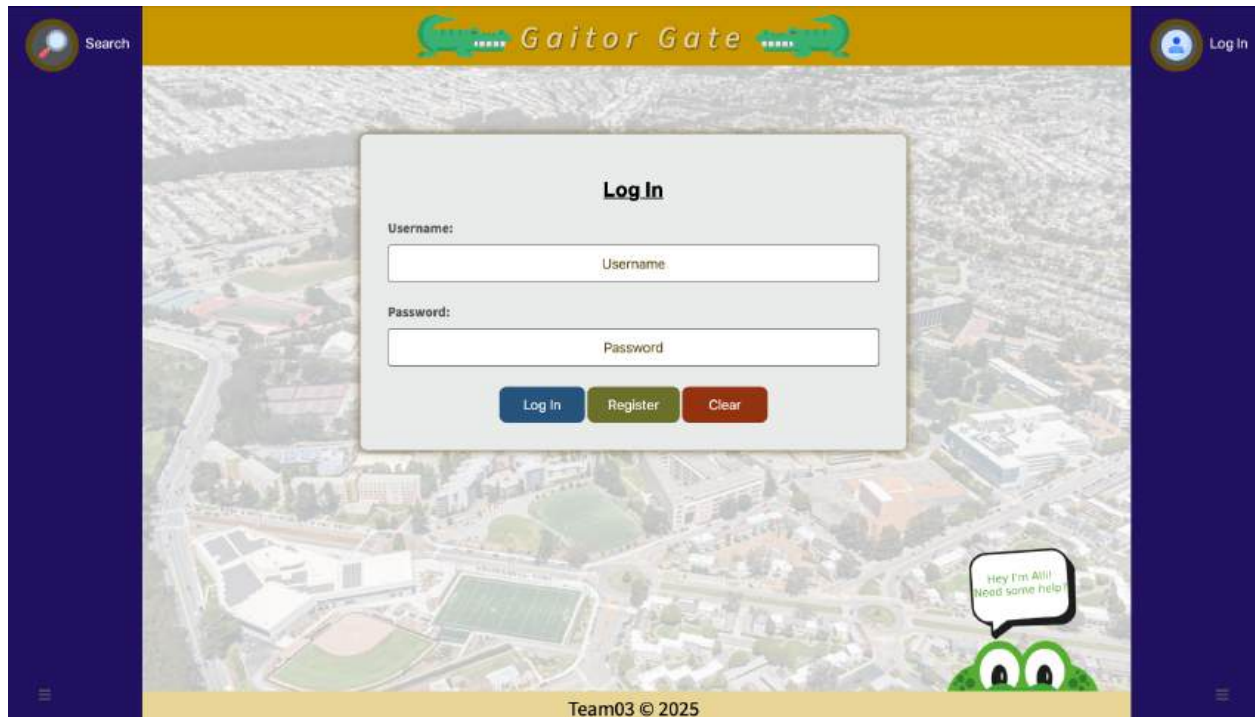
Search



Search (AI)



Login screenshot



The screenshot shows the login page of the Gator Gate website. The page has a dark blue header with a search icon and 'Search' text on the left, and a user icon and 'Log In' text on the right. The main content area features a light gray login form centered over an aerial view of a campus. The form is titled 'Log In' and contains fields for 'Username' and 'Password'. Below the fields are three buttons: 'Log In' (blue), 'Register' (green), and 'Clear' (red). A cartoon gator character with a speech bubble saying 'Hey I'm Allii! Need some help?' is positioned at the bottom right of the form. The footer of the page reads 'Team03 © 2025'.

Log In

Username:

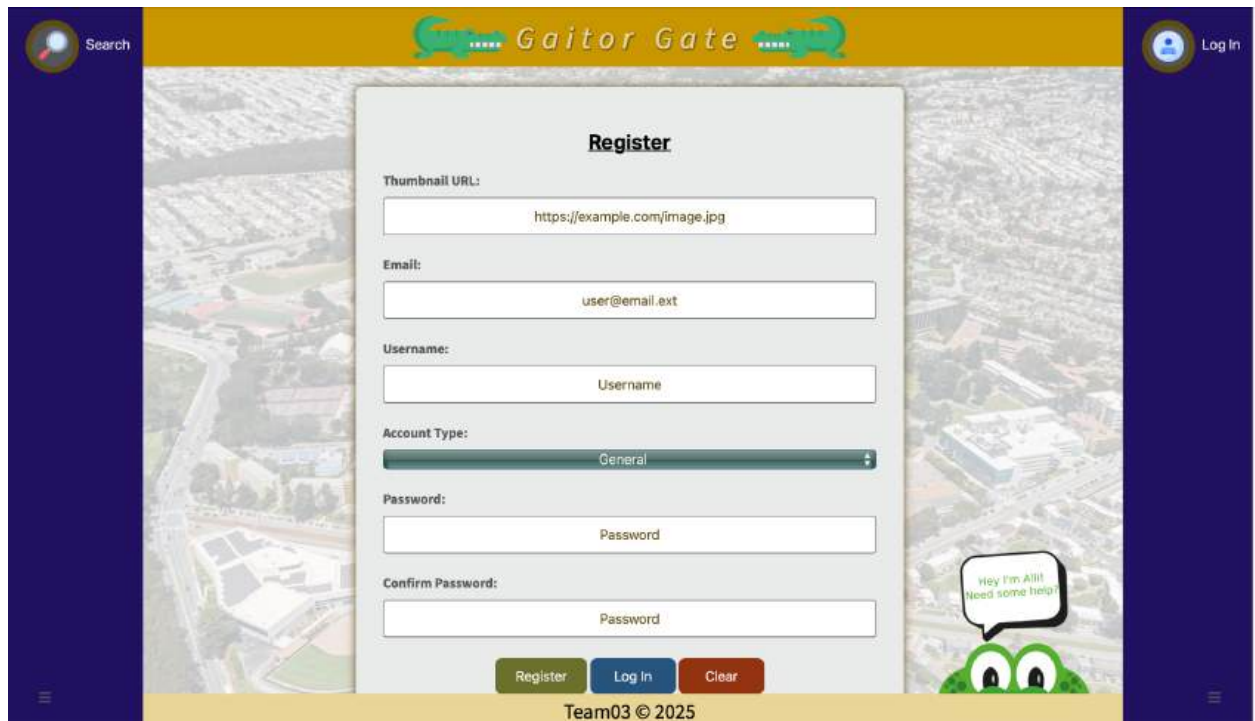
Password:

[Log In](#) [Register](#) [Clear](#)

Hey I'm Allii! Need some help!

Team03 © 2025

General Register



The screenshot shows the general registration page of the Gator Gate website. The page layout is similar to the login page, with a dark blue header and a light gray registration form centered over an aerial view of a campus. The form is titled 'Register' and contains fields for 'Thumbnail URL', 'Email', 'Username', 'Account Type' (a dropdown menu set to 'General'), 'Password', and 'Confirm Password'. Below the fields are three buttons: 'Register' (green), 'Log In' (blue), and 'Clear' (red). A cartoon gator character with a speech bubble saying 'Hey I'm Allii! Need some help?' is positioned at the bottom right of the form. The footer of the page reads 'Team03 © 2025'.

Register

Thumbnail URL:

Email:

Username:

Account Type:

Password:

Confirm Password:


[Register](#) [Log In](#) [Clear](#)

Hey I'm Allii! Need some help!

Team03 © 2025

Student Register

Search

Gator Gate

Log In

Register

Thumbnail URL:

https://example.com/image.jpg

Email:

user@email.ext

Username:

Username

Account Type:

Student

University:

SFSU

Major:

Major


Graduation Year:

Hey I'm Allii! Need some help!

Team03 © 2025

Company Register

Search

Gator Gate

Log In

Register

Thumbnail URL:

https://example.com/image.jpg

Email:

user@email.ext

Username:

Username

Account Type:

Company

Company Name:

Company Name

Website:

https://example.com

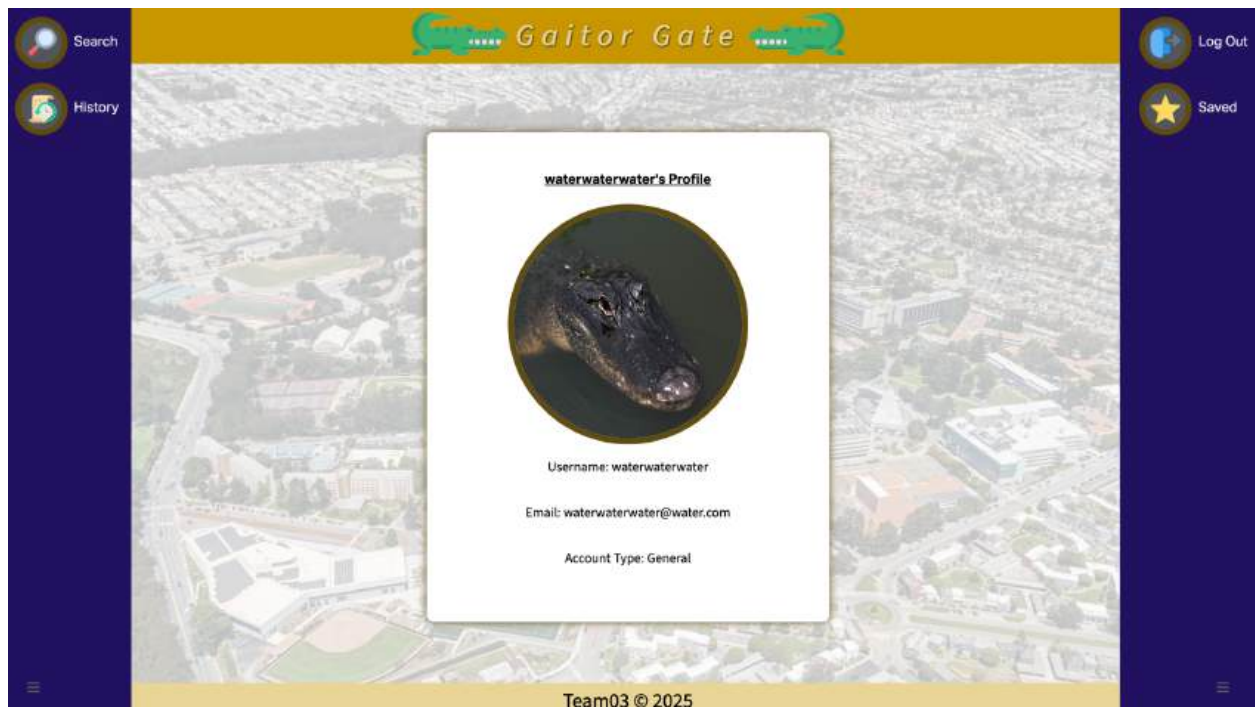
Description:

Company Description

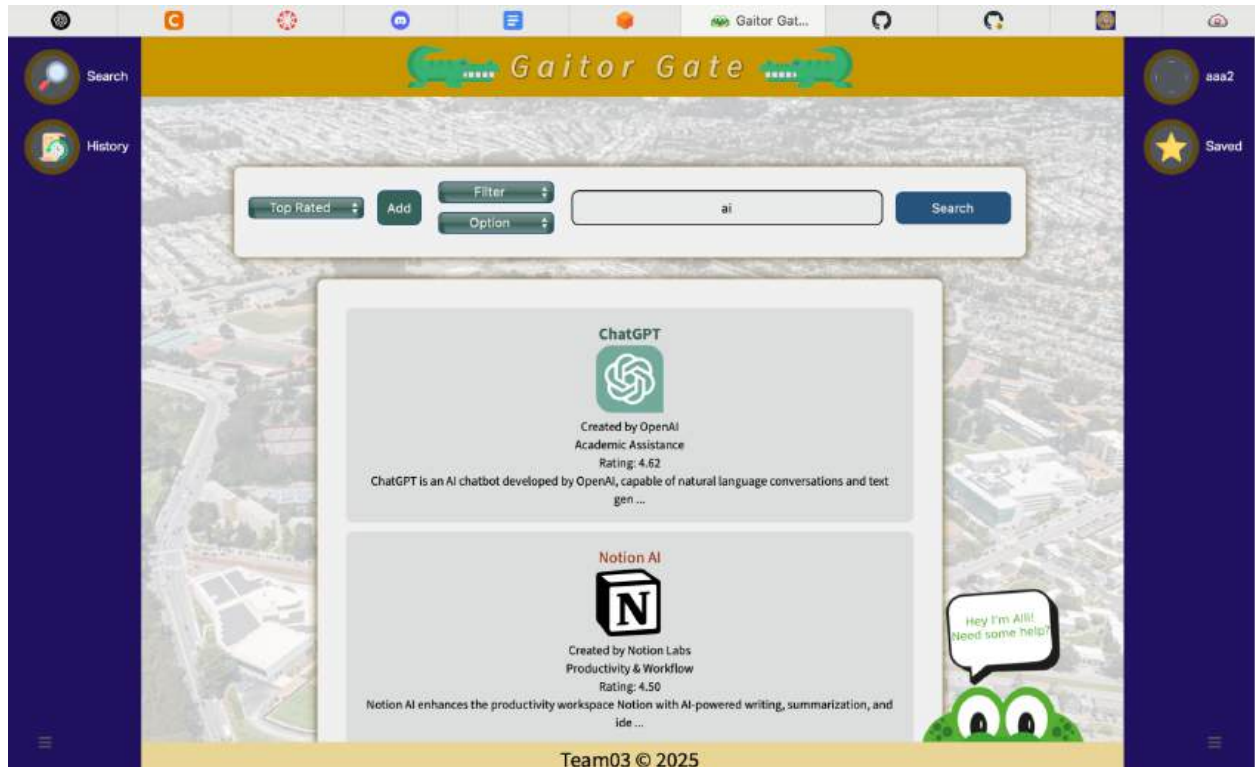
Hey I'm Allii! Need some help!

Team03 © 2025

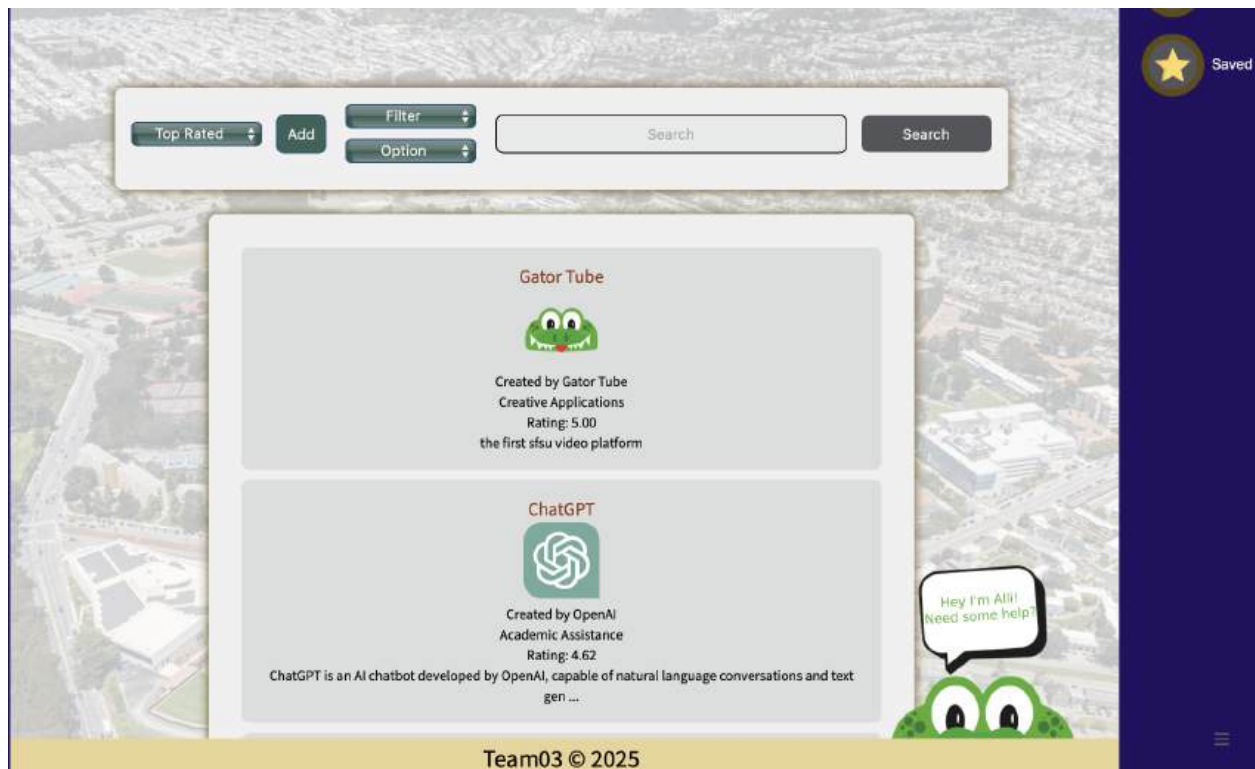
Logged In Page



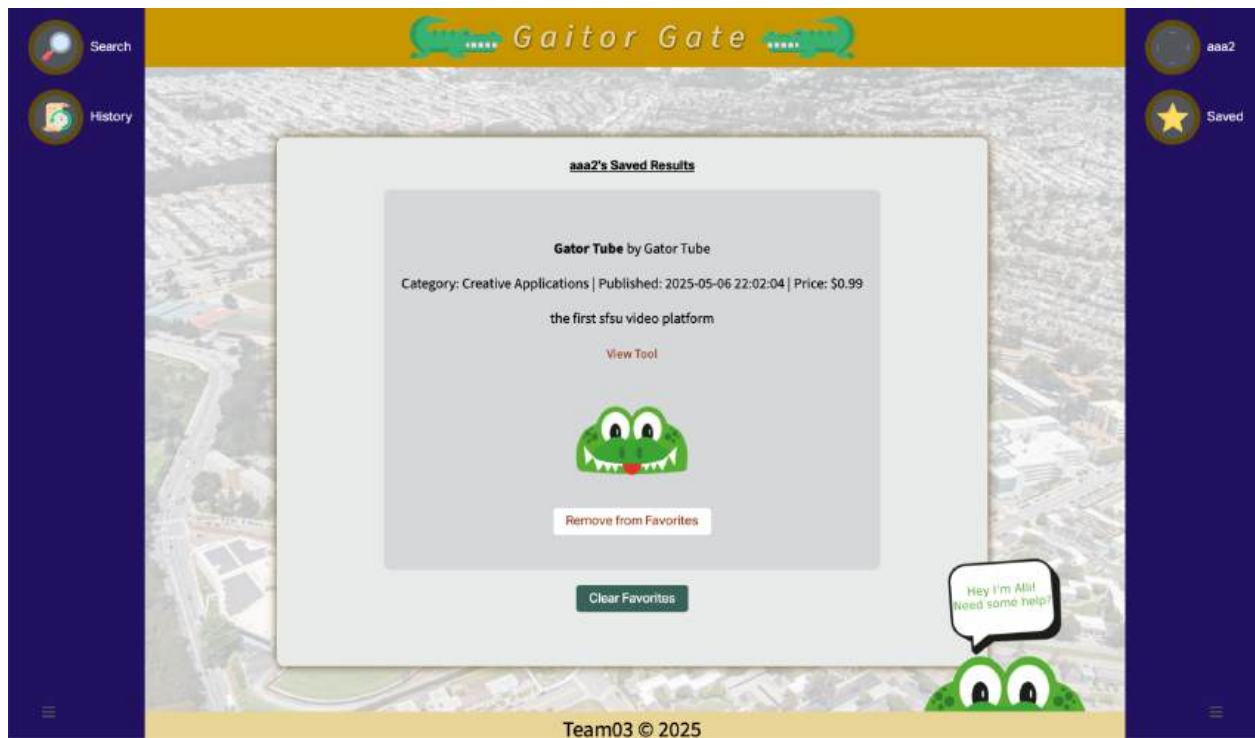
Logged In Search



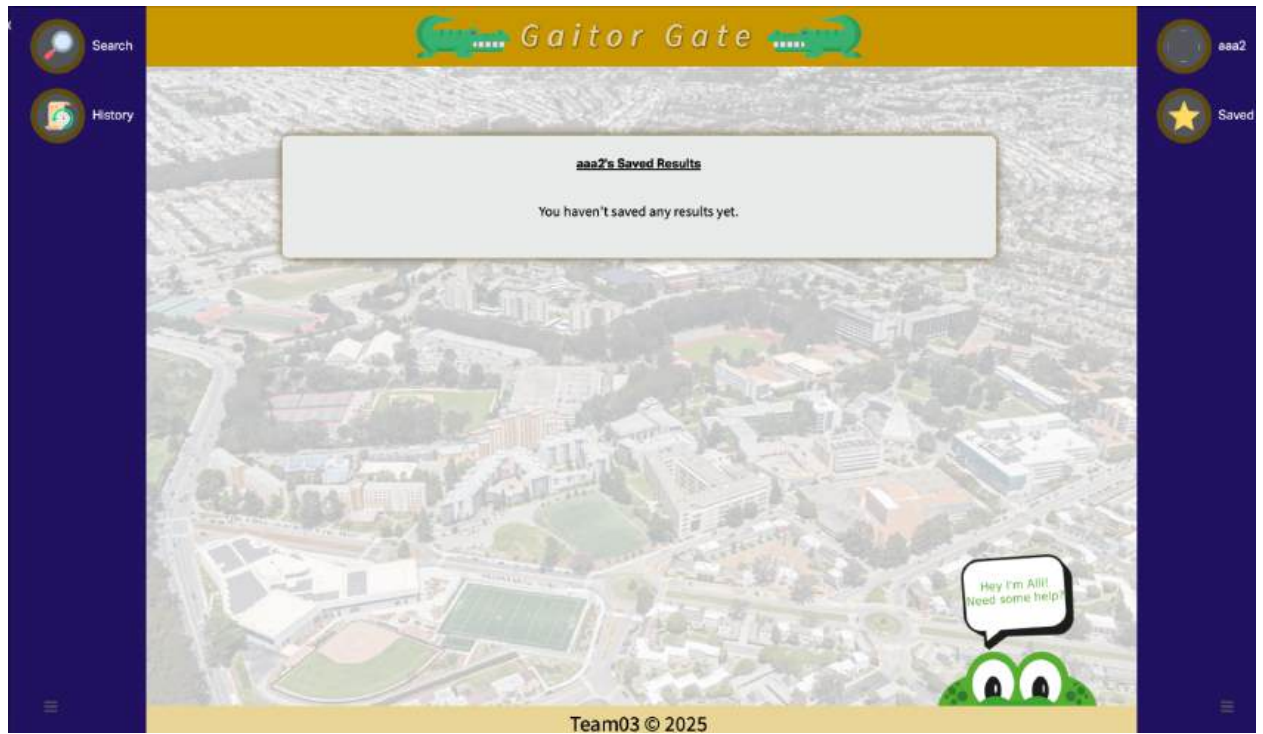
No Search Result Page




Added to Favorites





Saved Page (Clearing saved)





History Page

 Search

 History



 aaa2

 Saved

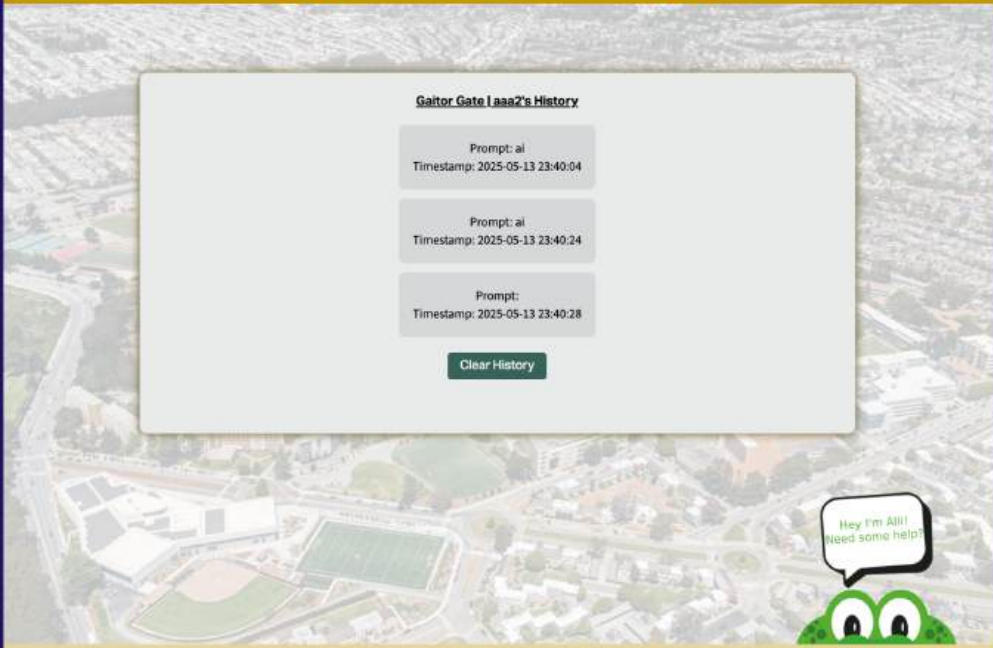
Gator Gate | aaa2's History


Prompt: ai
Timestamp: 2025-05-13 23:40:04

Prompt: ai
Timestamp: 2025-05-13 23:40:24

Prompt:
Timestamp: 2025-05-13 23:40:28

Clear History

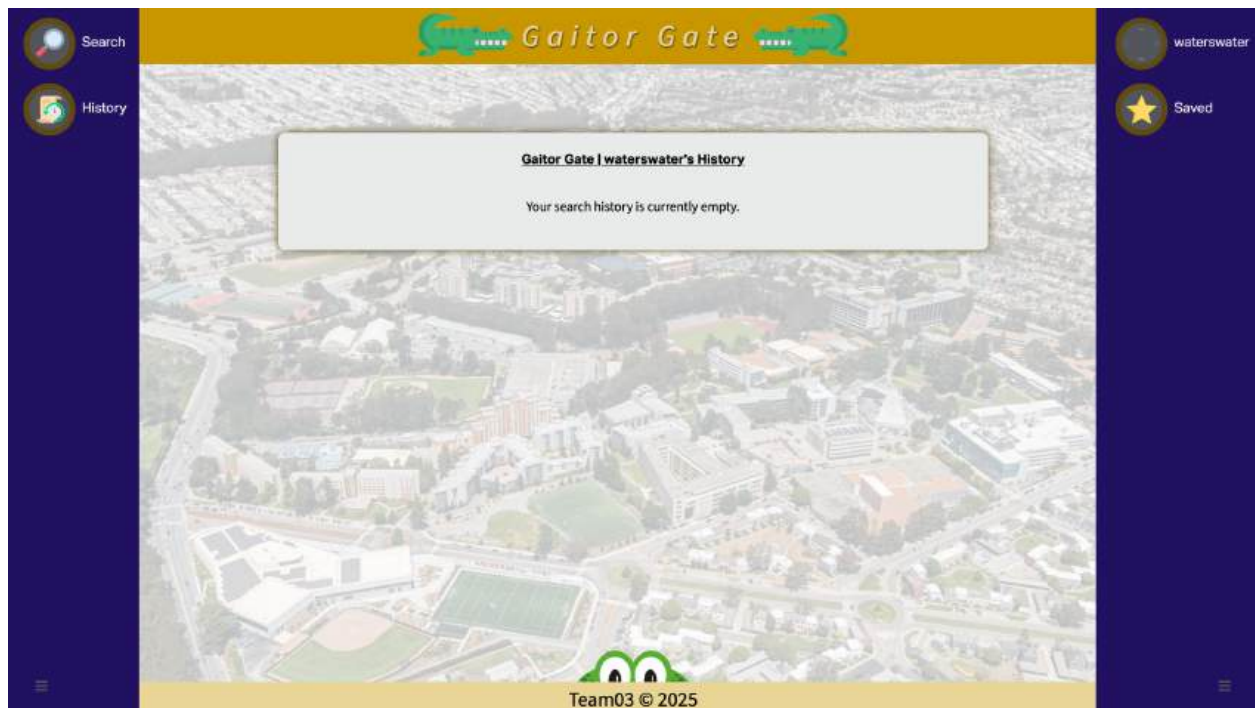




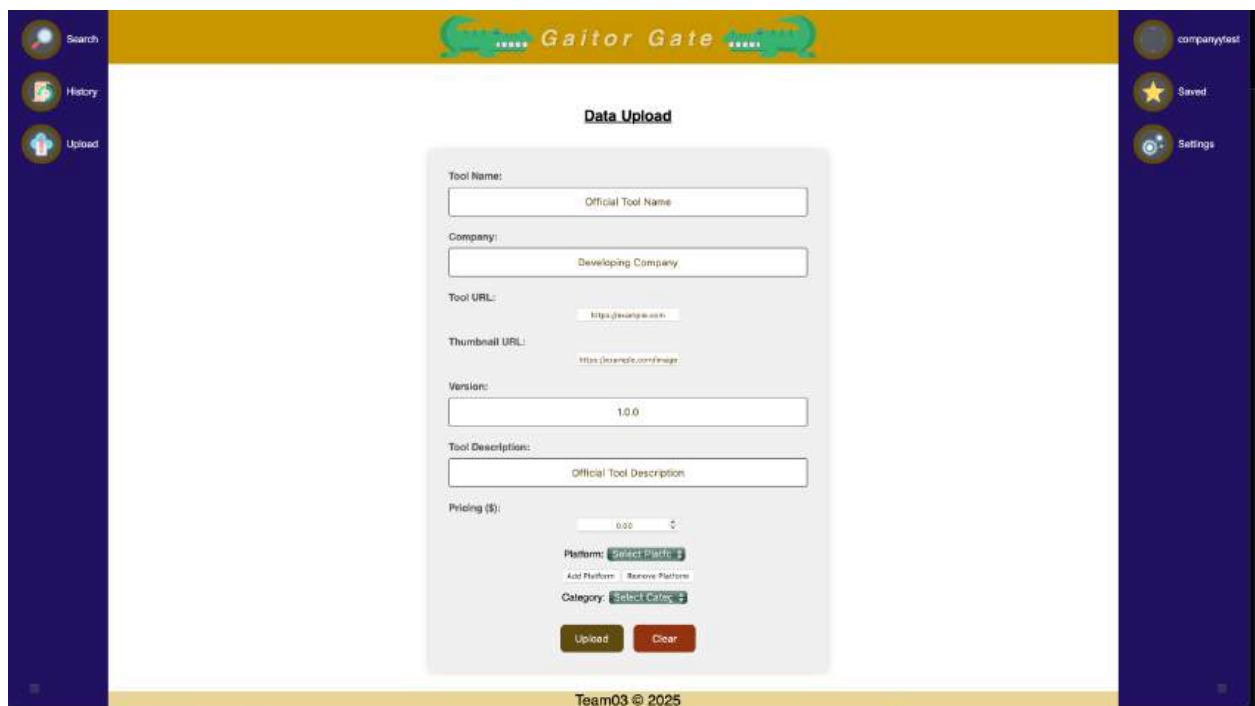
Hey I'm Allii!
Need some help?

Team03 © 2025

History Page (After Clear History)



Data Upload



Data Update

The screenshot shows the 'Gaitor Gate' application interface. The background is an aerial view of a city. The interface has a dark blue sidebar on the left with icons for Search, History, and Upload. The top has a yellow header with the 'Gaitor Gate' logo. On the right, there are three circular icons labeled 'Ya1111', 'Saved', and 'Update'. The main content area is a light gray form titled 'Data Update'. The form contains several input fields with placeholder text: 'Tool Name' (Official Tool Name), 'Tool URL' (https://example.com), 'Thumbnail URL' (https://example.com/image.jpg), 'Version' (1.0.0), 'Tool Description' (Official Tool Description), and 'Pricing (\$)' (0.00). A green cartoon gator character with a speech bubble saying 'Hey I'm Alli! Need some help!' is positioned at the bottom right of the form. The footer of the application shows 'Team03 © 2025'.

Data Update

Tool Name:

Tool URL:

Thumbnail URL:

Version:

Tool Description:

Pricing (\$):

Hey I'm Alli! Need some help!

Team03 © 2025

Chatbot

The screenshot shows the 'Gaitor Gate' application interface with the chatbot active. The background is an aerial view of a city. The interface has a dark blue sidebar on the left with icons for Search, History, and Upload. The top has a yellow header with the 'Gaitor Gate' logo. On the right, there are three circular icons labeled 'Ya1111', 'Saved', and 'Update'. The main content area is a white chat window. Inside the chat window, there is a gray message bubble from 'Alli' that says 'Welcome to Gaitor Gate! My name is Alli Gator, How can I help you find AI tools today?'. Below the message bubble is a text input field with the placeholder 'What's on your mind?'. At the bottom of the input field is a green button labeled 'Post Message'. The footer of the application shows 'Team03 © 2025'.

Alli: Welcome to Gaitor Gate! My name is Alli Gator, How can I help you find AI tools today?

What's on your mind?

Post Message

Team03 © 2025



5) DB table

DataBase Id account

```
mysql> SELECT idAccount, idUser, username, email, Account_Type, is_verified FROM Account LIMIT 50;
```

idAccount	idUser	username	email	Account_Type	is_verified
1	1	hvjv	dddd		0
2	2	test	test@gmail.com		0
3	3	gaitor	gaitor@sfsu.edu		0
4	4	fdg	fdg@gmail.com		0
5	5	rgddrg	gfbfg@gmail.com		0
6	6	fdskjnf@#!#&*	fsdfs@gmail.com		0
7	7	testuser	test@test.com		0
8	8	ulicessgg	sergioullicesgonzalezguerrero@gmail.com	Company	0
9	9	aaaa	user@gmail.com		0
10	10	jarl	ddd@gmail.com		0
11	11	sheesh	user@tset.com		0
12	12	change	change@gmail.com		0
13	13	usrnme	usr@gmail.com		0
14	14	bcrypt	bcrypt@gmail.com		0
15	15	gate	gate@gmail.com		0
16	16	jared	jarl@gmail.com		0
17	17	jaredA	jared@gmail.com		0
18	18	ttt1	far@gmail.com		0
19	19	ulimannn	ulimannn123@gmail.com	Company	1
20	20	Yaa1	ya@gmail.com		0
21	21	water	syrup-gender-santa@duck.com		0
22	22	waters	water@water.com		0
23	23	testing	gg@gmail.com		0
24	24	qwerty	qwerty@gmail.com		0
25	25	uuu2	uuu@gmail.com		0
26	3	ooo	t@gmail.com	General	0
27	26	qqq1	testing@gmail.com	General	0
28	27	OpenAI	openai@gmail.com	Company	0
29	28	Midjourney	midjourney@gmail.com	Company	0
30	29	Grammarly	grammarly@gmail.com	Company	0
31	30	Notion	notion@gmail.com	Company	0
32	31	CopyAI	copyai@gmail.com	Company	0
33	32	Runway	runway@gmail.com	Company	0
34	33	Descript	descript@gmail.com	Company	0
35	34	GitHub	github@gmail.com	Company	0
36	35	Team3	team3@gmail.com	Company	0
37	36	Anthropic	anthropic@gmail.com	Company	0
38	37	testing1	testing123@gmail.com	General	0
39	38	username	email@gmail.com	General	0
40	39	testUli	testingscript@gmail.com	General	0
41	40	user	user@email.txt	General	0
42	41	usrname	m@email.txt	General	0
43	42	jjj0	ye@gmail.com	General	0
44	43	studentTest	studentTest@gmail.com	General	0
45	44	ducky	pretty-palm-slip@duck.com	General	0
46	45	serg	sergio@sfsu.edu	General	0
47	46	reps	reps-spre-jumbo@duck.com	General	0
48	47	hapoma4874	hapoma4874@idoidraw.com	General	0
49	53	serg111	sergiof.2001@hotmail.com	Student	1
50	54	Yai111	yaa2@gmail.com	Company	0

50 rows in set (0.00 sec)

DESCRIBE Account

```
mysql> DESCRIBE Account;
```

Field	Type	Null	Key	Default	Extra
idAccount	int	NO	PRI	NULL	auto_increment
idUser	int	NO	MUL	NULL	
email	varchar(255)	NO	MUL	NULL	
hashed_password	varchar(225)	NO		NULL	DEFAULT_GENERATED
created_at	timestamp	YES		CURRENT_TIMESTAMP	
username	varchar(50)	YES		NULL	
Account_Type	enum('General','Student','Company')	NO		General	
profile_pic_url	varchar(255)	YES		NULL	
is_verified	tinyint(1)	YES		0	

9 rows in set (0.00 sec)

DESCRIBE User;

```
mysql> DESCRIBE User;
```

Field	Type	Null	Key	Default	Extra
idUser	int	NO	PRI	NULL	auto_increment
name	varchar(45)	NO		NULL	
DOB	date	YES		NULL	

3 rows in set (0.00 sec)

DESCRIBE Student;

```
mysql> DESCRIBE Student;
```

Field	Type	Null	Key	Default	Extra
idAccount	int	NO	PRI	NULL	
university	varchar(100)	YES		NULL	
major	varchar(45)	YES		NULL	
graduation_year	datetime	YES		NULL	

4 rows in set (0.00 sec)

DESCRIBE User_Sessions;

```
mysql> DESCRIBE User_Sessions;
```

Field	Type	Null	Key	Default	Extra
idUser_Sessions	int	NO	PRI	NULL	auto_increment
idAccount	int	NO	MUL	NULL	
start_time	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
end_time	timestamp	YES		NULL	

```
4 rows in set (0.00 sec)
```

DESCRIBE Tools;

```
mysql> DESCRIBE Tools;
```

Field	Type	Null	Key	Default	Extra
idTool	int	NO	PRI	NULL	auto_increment
name	varchar(255)	NO	MUL	NULL	
company	int	YES	MUL	NULL	
url	varchar(255)	NO		NULL	
timestamp	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
thumbnail_url	text	YES		NULL	
published_date	datetime	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
version	float	YES		NULL	
pricing	varchar(70)	YES		Free	
description	text	YES		NULL	

```
10 rows in set (0.00 sec)
```

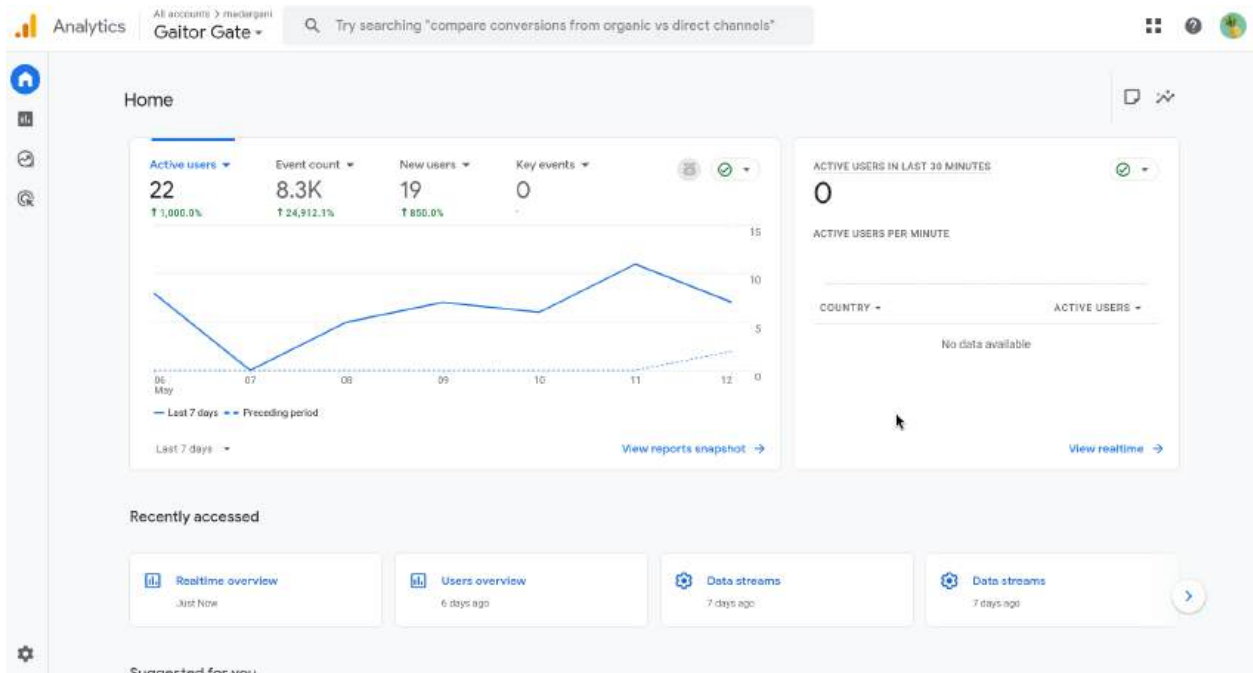
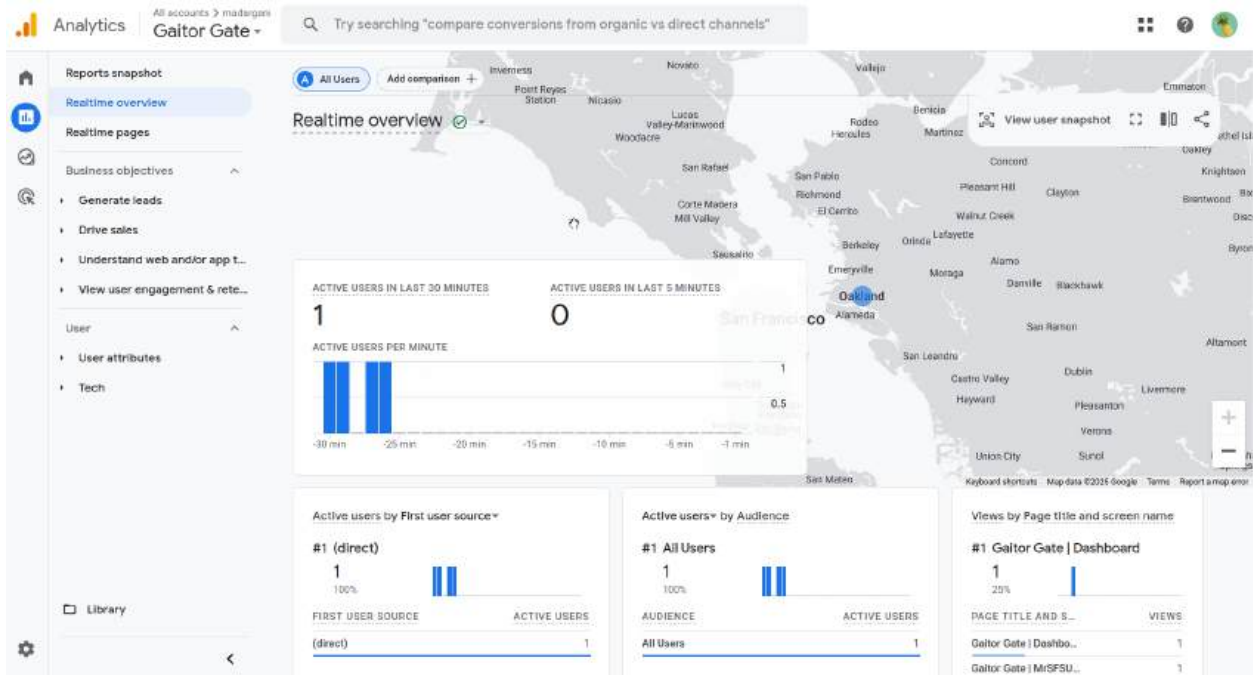
DESCRIBE IndexPlatform;

```
mysql> DESCRIBE IndexPlatform;
```

Field	Type	Null	Key	Default	Extra
idIndex	int	NO	PRI	NULL	
idPlatform	int	NO	PRI	NULL	

```
2 rows in set (0.00 sec)
```


6. Google Analytics



7. Task Management

648 Group

Communication ▾

- # general
- # scheduling
- # absences
- # progress-check-in
- # class-notes
- # repo-link
- # front-end-communication
- # back-end-communication

Milestones ▾

- # milestone-0-done
- # milestone-1-done
- # milestone-2-done
- # milestone-3-done
- # milestone-4-done
- # milestone-5-in-progress

Resources ▾

NEW UNREADS

general

Chris Tucker Yesterday at 7:05 PM

Lebron: was the golden state warriors 2016 finals 3-1 lost rigged?

Alli: I do not have that information in the provided data.

What's on your mind?

Post Message

Alli is probably a cavs fan

May 13, 2025

jareda 11:59 AM

@everyone please remeber to do your team contribution email and videos. After you emailed the team contribution email, please screenshot and add it to the report under team contribution.

👍 1

648 Group

Communication ▾

- # general
- # scheduling
- # absences
- # progress-check-in
- # class-notes
- # repo-link
- # front-end-communication
- # back-end-communication

Milestones ▾

- # milestone-0-done
- # milestone-1-done
- # milestone-2-done
- # milestone-3-done
- # milestone-4-done
- # milestone-5-in-progress

Resources ▾

NEW UNREADS

front-end-communication

jareda Yesterday at 10:45 AM

hey front end team. things look really good on the front end. But there is like some minor issues. I really like the gator animation. On some pages like the data upload page, it blocks the buttons. Is there a way to diable the gator when the users are in these pages.

Version: 1.0.0

Tool Description: Official Tool Description

Pricing (\$): 0.00

Platforms: Select Platt

Add Platform

Category: Select Catr

Ulices G Yesterday at 10:47 AM

Yeah, I can remove the partial from being called in those and have it be just on the index and search pages

If you can could you send me the docs for the screen and or monitor you're using, I can use the web tool to adjust the size to get the same view you have

And tweak from there. I think part of the problem is also me using an ultra wide so it messes

**jareda** 4/17/25, 4:09 PM

From what we discussed in the last meeting, the dashboard is going to be what functionalities are gonna be visible to the user depending on whether the account is a user account or admin account. In our case, the user account won't be able to access data upload but the admin account can. There is already an `account_type` in the database. I think this functionality is to be done in the front end. But the back end will need to pass the `account_type` to the front in the log in.

**jareda** 4/17/25, 4:27 PM

Additionally, the data upload currently only insert the tool into the tool entity. The relationship of the tool need to be inserted in the searchindex table. the searchindex will reference the toolID, platform the tool is intended for and the category.

April 18, 2025

**Marco** 4/18/25, 11:17 AM

ill fix it

**Ulices G** 4/18/25, 10:17 PM

Question regarding dashboard, would it be fine to make it so top rated tools are presented to users using a carousel on the basic dashboard, output all search from most recent to oldest for admin, and then for non logged in users just have the image of the gator I originally put in I was giving it some thought on my way home but rather ask before doing anything final This would effectively be a single partial that is loaded onto the index page

648 Group

milestone-1-done

milestone-2-done

milestone-3-done

milestone-4-done

milestone-5-in-progress

Resources

linux-resources

aws-resources

front-end-resources

back-end-resources

database-resources

github-resources

troubleshooting

Voice Channels

Group Meeting

One on One

AFK

milestone-5-in-progress

@jareda my bad. Should have been more clearer

Ulices G

Yesterday at 10:09 PM

youre good lmao

Ulices G

Yesterday at 10:34 PM

sending email rn cced eveyone

Andre Dargani

Yesterday at 10:34 PM

Do we have a standard for tab size?

Andre Dargani

Yesterday at 10:46 PM

I made the chat bot response a little easier to read
It's responding using html tags now

jareda

Yesterday at 11:56 PM

@everyone just pulled the latest update into the server. ,There was some issues with the directory in the server so I had to make some changes. Please test it out locally to make sure that it works for u. It's working on the server.

May 13, 2025

Andre Dargani

7:13 AM

Thanks I was struggling to figure that out

@jareda @everyone just pulled the latest update into the server. There was some issues with the dire

8. Team Contribution

X

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>

Gaitor Gate Contribution Statement - Ulices Gonzalez

UG

Ulices Gonzalez

To: Jared Aung

Cc: Marco Barraza; Andre Celis Dargani; Mowtee Saleh Sailan; Sergio A Aguilar

😊

↩ Reply

↩ Reply all

➡ Forward

...

Mon 5/12/2025 10:36 PM

Hello Everyone,

As the Front-End Lead, I've been responsible for the overall structure, styling, and UI of Gaitor Gate. Together alongside the rest of the front-end team (Mowtee & Sergio) developed the front-end components implemented many of the key features. Due to the nature of being the lead for the front-end departments I have also had to coordinate with back-end lead (Andre) and others a part of the back-end team (Marco & Sergio) in order to integrate back-end implementations into the front-end. This can be seen through the integration of the search function into the search form onto the site along with the development of the user dashboard for authenticated users, and lastly the integration of the Alli chat Gemini chatbot. Throughout the course of the project, I have conducted code reviews specifically on the front end in order to ensure Gaitor Gate is consistent with design manuals developed by myself as well as to ensure mobile compliance and to address bugs found by the rest of the team. Outside of the scope of the implementation of the project I have also taken part in and contributed to discussions regarding features to be implemented or edited as well as development of the user experience with the guidance of our Team Lead (Jared). I have also helped delegate work amongst the front-end team in an effort to ensure a smooth work pipeline to meet the back-end teams needs while also ensuring front-end tasks are completed on time.

Regards,

Ulices Gonzalez

↩ Reply

↩ Reply all

➡ Forward

Gaitor Gate Contribution Statement - Mowtee Sailan

MS

Mowtee Saleh Sailan



Reply



Reply all



Forward



To: Jared Aung

Tue 5/13/2025 12:28 PM



Cc: Marco Barraza; Andre Celis Dargani; Ulices Gonzalez; Sergio A Aguilar

Hey everyone,

Role: Github Master & Frontend

- Managed main GitHub repository, merged branches, and resolved conflicts (not many, great work team!).
- Assisted with registration error handling, including duplicate accounts, invalid emails, etc.
- Implemented authentication for new account creation while collaborating with a partner to integrate the needed frontend components.
- Added the welcome message functionality to enhance the users experience.
- Contributed to the Data Upload page.
- Aided with the tool page, when clicking on a tool redirect to its detailed page.
- Assisted with the development of the search page.
- Collaborated on the review and rating for the tools.
- Worked closely with the backend team to implement sorting features (ratings, dates, and names).
- Provided support in enhancing the registration form and refining dashboards for different types of users.

Total Commits: 32

Awesome work team!

Best,

Mowtee Sailan

Reply

Reply all

Forward

Gaitor Gate Contribution Statement - Andre Dargani



Andre Celis Dargani



To: @ Jared Aung

Tue 5/13/2025 2:10 PM

Cc: @ Marco Barraza; @ Ulices Gonzalez; @ Mowtee Saleh Sailan; @ Sergio A Aguilar

Hi team,

As the back-end lead, it was my job to design the back-end structure of Gaitor Gate. I designed the file structure for the flask application to be modular so that routes are organized by feature and that adding features would be easy. I also contributed to functionality of the search function. I mainly contributed to the filtering and sorting aspect of the search function. I was also in charge of implementing analytics for our website allowing us to view the trend of active users on our website. Finally, I worked on our chat bot, Allie. I created the POST request route that allows us to send and receive messages from Allie and I designed a prompt that would allow Gemini to respond with information from our database. As back-end lead it was also my job to delegate tasks to the rest of the back-end team, however our team lead, Jared, did a better job at this. He deserves all the credit for coordinating the efforts of the back-end team. In total I made 22 commits to the repository.

Thanks for a great semester! I'm lucky to have you all as my teammates.

Best,

Andre Dargani

Jared Aung

To: @ Ulices Gonzalez

Cc: @ Marco Barraza; @ Andre Celis Dargani; @ Sergio A Aguilar; @ Mowtee Saleh Sailan

Tue 5/13/2025 3:18 PM

Hey everyone

As the team lead, database engineer and fill-in back end engineer, I tried my best to contribute to the team and group in as many as I can.

1. I designed the entire database making sure that it is ideal to the purpose of our project and maintain normalization and scalability.
2. I cleaned the raw dataset to create one that contained all the information needed in the database and then created a readcsv.py to bulk-insert around 150 tools into the database, to be used as search results.
3. I configured the AWS server and fixed anytime there is a server issue or deployment issue. I made sure that the code being designed works as intended on the server.
4. I designed the data upload in the backend so that companies can upload their AI tools.
5. I designed the back end for view-tool which allows users to access detailed information about the tools from the search results.
6. I regularly communicated via Discord — organizing meetings, setting deadlines, and trying to delegate work evenly while respecting everyone's time and workload.
7. I designed the back end of ratings and reviews. So that users can rate and reviews tools as well as average rating of the tool and the reviews given to the tool by other users.
8. I also helped define the expected functionality of each page and backend feature, providing guidance and structure while encouraging creativity and offered constructive criticism when needed.

Thank you everyone. It was great working with all of you.

Sergio A Aguilar

To: @ Jared Aung; @ Marco Barraza; @ Ulices Gonzalez; +2 others

Tue 5/13/2025 2:39 PM

Hi everyone,

Role backend/tester:

- Wrote lines of code which would be used as stepping stones for the rest of the group
- Help out in testing out the product in all ways, from checking every link to trying new account emails
- Contributed to ssh development
- Organized file structures to work seamlessly with the production side.
- Contributed to the clear all history, and remove of favorites
- Provided support when needed by the team
- As well as took digital shots of the final product

Phenomenal work team.

Best,

Sergio A

Gaitor Gate Contribution Statement - Marco Barraza



📧 Marco Barraza <mbarraza@sfsu.edu>

Today at 2:13 PM

To: 📧 Jared Aung; Cc: 📧 Andre Celis Dargani; 📧 Ulises Gonzalez; 📧 Mowtee Saleh Sailan; +1 more ▾

Hi Everyone,

Role: Backend

I contributed to the project by supporting system design through the creation of high-level UML diagrams. I implemented several key backend features, including the user register route and login/logout functionality using Flask-Login. I also developed the dataUpload and dataUpdate routes to manage tool information and user input. Additionally, I built the main dashboard (/ route), which dynamically displays tool data and reviews and is tailored based on whether the logged in user is a company or a student/regular user.

Great work team!

Total commits: 56

Best,
Marco Barraza

9. Post Analysis

Subject: Post Analysis

Hi Team,

Thank you all for your dedication towards the project, your sense of responsibility in delivering your parts, and the willingness to offer help and ideas throughout the semester. I think we've built a strong and functional product, and I've really enjoyed working alongside such hardworking, intelligent, and committed people.

As we wrap up, I want to take a moment to reflect on some challenges we faced, and how we might improve in future projects.

1. Authentication on the Server

We weren't able to fully implement user authentication on the deployed server in a way that would properly identify each of us separately. While this didn't impact the overall product, it's a missed opportunity to practice more secure and scalable access control.

Looking back, this could've been addressed earlier if we had more confidence in AWS deployment and cloud configuration — something we all improved on by the end of the project.

2. Database Implementation

The database design served the project well overall, but it could have been more efficient. Incorporating stored procedures, triggers, and functions earlier would have reduced some of the repetitive or complex backend logic and made data handling cleaner.

3. Communication

We relied solely on Discord for communication and coordination. While it worked well in this project — thanks to everyone's responsiveness — it's not a scalable or structured approach for larger teams or longer-term projects. Tools like Trello or GitHub Projects could have helped us track tasks, dependencies, and deadlines more clearly and minimized any confusion. Additionally, having more number of meetings and structuring meetings to have Scrum-like format could have overall improved the efficiency of the progress and communication of the team.

Despite these challenges, we adapted well, and I'm proud of the work we did. Thank you again for your effort, teamwork, and the positive energy you brought to this project.

Good luck on your finals and everything ahead!

Best,
Jared