React, FAST APIs - Tokens Usage for a user with nice visualization

Project Description:

In this project, you will build a dashboard to monitor the usage integrates a monitoring system and a billing module to track user API usage and generate individualized bills based on their usage of the FastAPI-based data download and chat APIs. The project combines the functionalities of data retrieval, natural language processing, and usage monitoring to offer a comprehensive solution.

Key Component:

API Usage Monitoring:
- Track the usage of the FastAPI-based APIs for data download and chat functionalities.
- Record metrics such as the number of API calls, data download size, and chatbot interactions.

Billing System:
- Implement a billing module that calculates charges based on API usage for each user.
- Define a pricing model for data download API calls and chatbot interactions.

Dashboard Visualization:
- Develop an intuitive dashboard that displays usage statistics, charts, and graphs.
- Visualize API usage trends over time and provide insights into data download patterns and chatbot interactions.
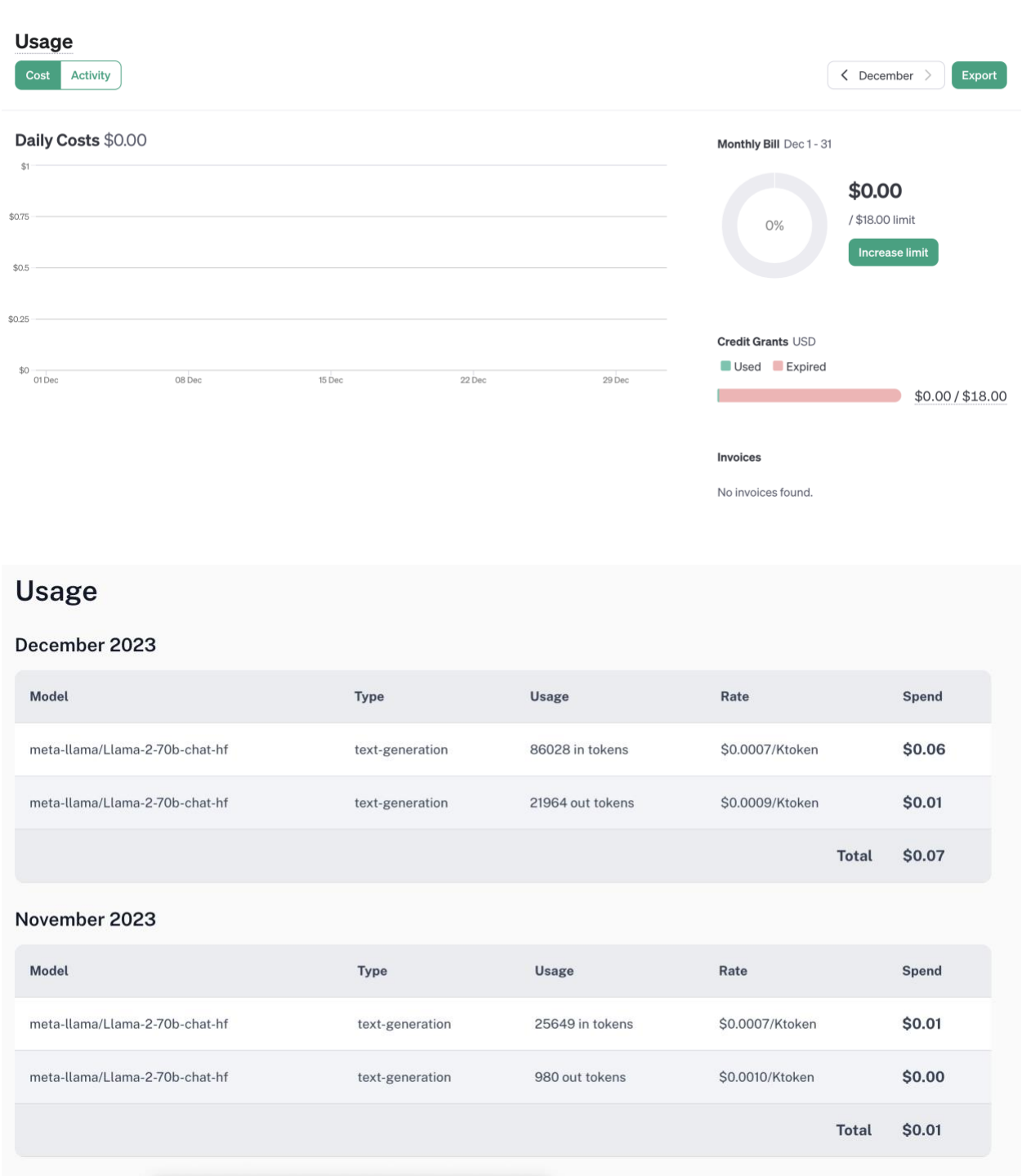
Alerts and Notifications:
- Set up alerts for users approaching usage limits or facing billing issues.
- Notifications can be sent through the dashboard or email.

Deliverables
- Daily Costs
- Monthly Bill
- Export to PDF
- Invoices
- Activities

Example Screens:

Usage

‹ December ›   Export

Daily Costs $0.00

$1
$0.75
$0.5
$0.25
$0
01 Dec   08 Dec   15 Dec   22 Dec   29 Dec

Monthly Bill Dec 1 - 31

0%   **$0.00**
/ $18.00 limit

Increase limit

Credit Grants USD

■ Used   ■ Expired

$0.00 / $18.00

Invoices

No invoices found.

Usage

December 2023

Model	Type	Usage	Rate	Spend
meta-llama/Llama-2-70b-chat-hf	text-generation	86028 in tokens	$0.0007/Ktoken	**$0.06**
meta-llama/Llama-2-70b-chat-hf	text-generation	21964 out tokens	$0.0009/Ktoken	**$0.01**
			Total	**$0.07**

November 2023

Model	Type	Usage	Rate	Spend
meta-llama/Llama-2-70b-chat-hf	text-generation	25649 in tokens	$0.0007/Ktoken	**$0.01**
meta-llama/Llama-2-70b-chat-hf	text-generation	980 out tokens	$0.0010/Ktoken	**$0.00**
			Total	**$0.01**

Technologies:

- React
- TypeScript
- Bootstrap
- Data Visualization Library (D3.js, Chart.js, Recharts)
- RESTful API for dataset retrieval