AI-powered Career Coach Assistant

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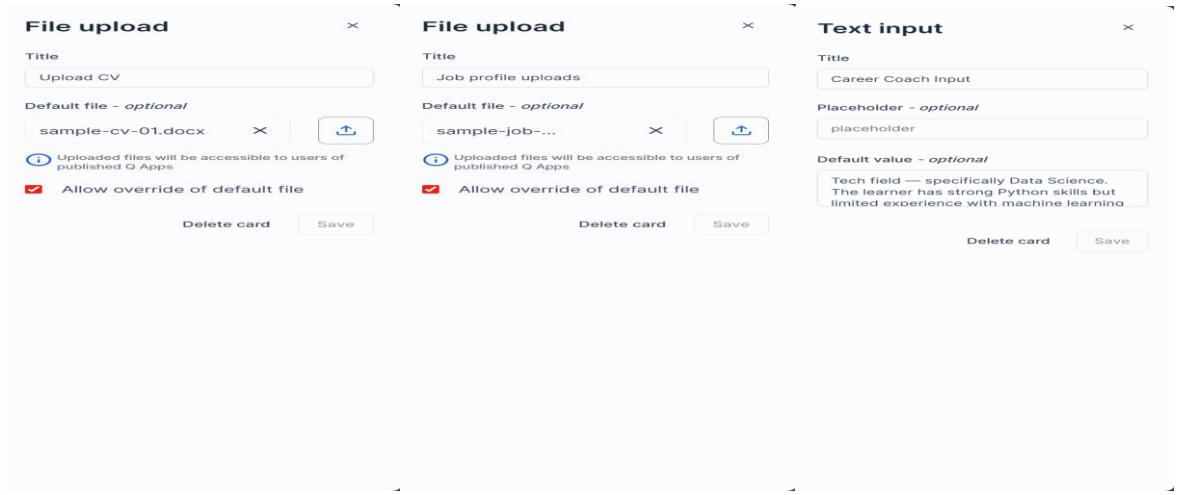
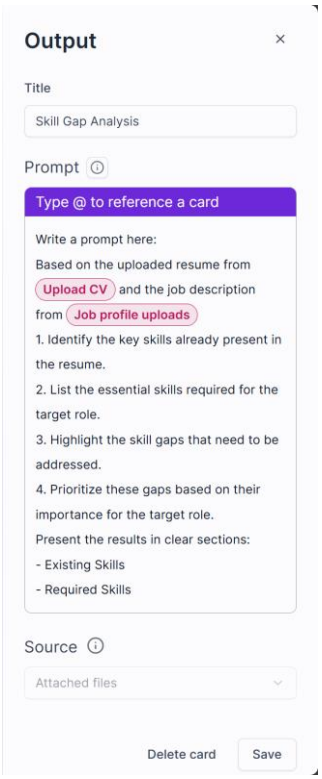
Project Overview

This project demonstrates the development of a generative AI-powered Q App using **Amazon Q Business**. The application analyzes uploaded CVs and job profiles to identify skill gaps and recommend personalized training paths. It integrates advanced interaction components, secure access controls, and dynamic data sources including Amazon S3 and static PDFs.

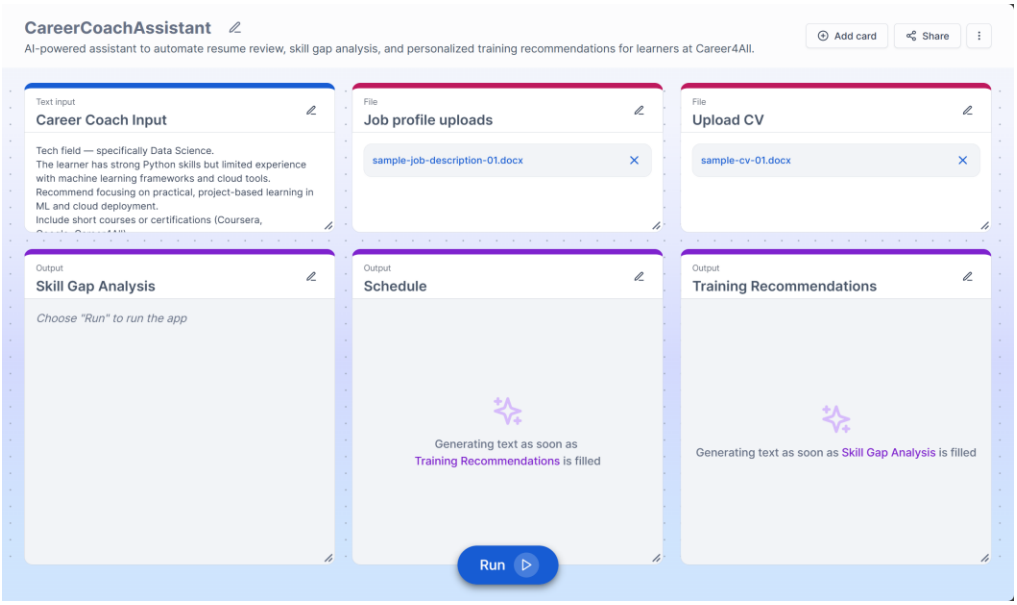
Core Functionality

- **Skill Gap Analysis**: Input cards for CV and job profile uploads; output card displays skill gap results.



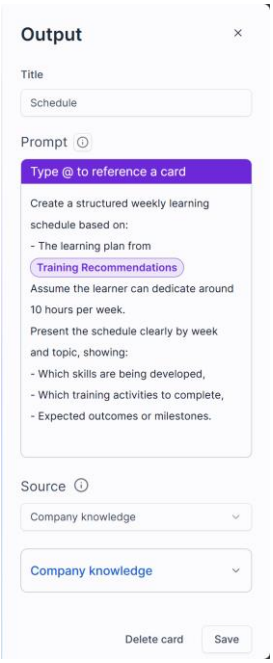


- **Training Recommendations**: Output card suggests relevant training based on identified gaps.

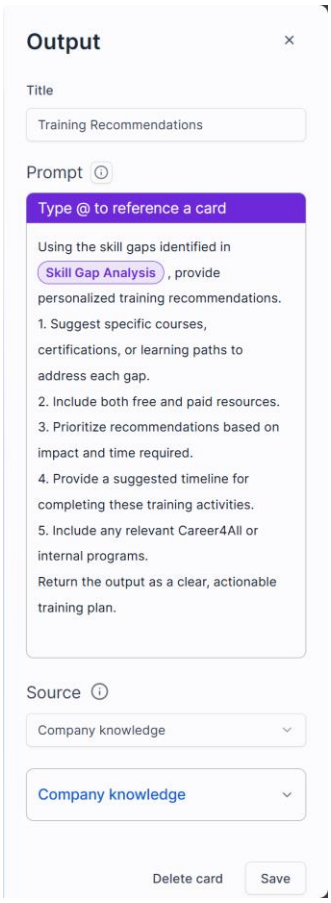


Advanced Interaction Components

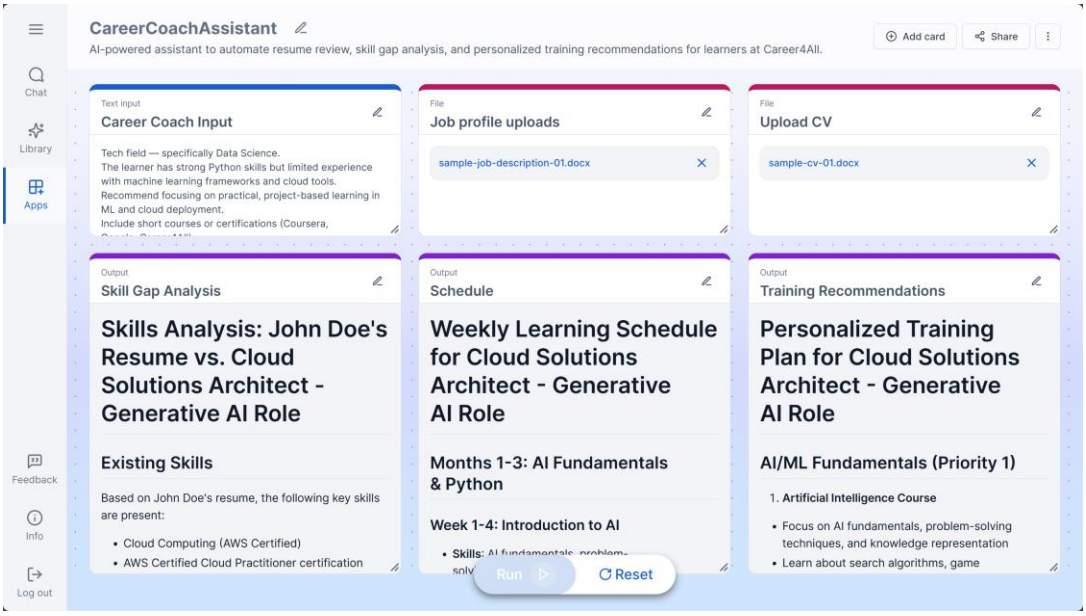
- **Suggested Schedule Output Card**: Displays a personalized training timeline.



- **Coach Recommendation Input Card**: Allows users to request tailored advice from specific coaches.

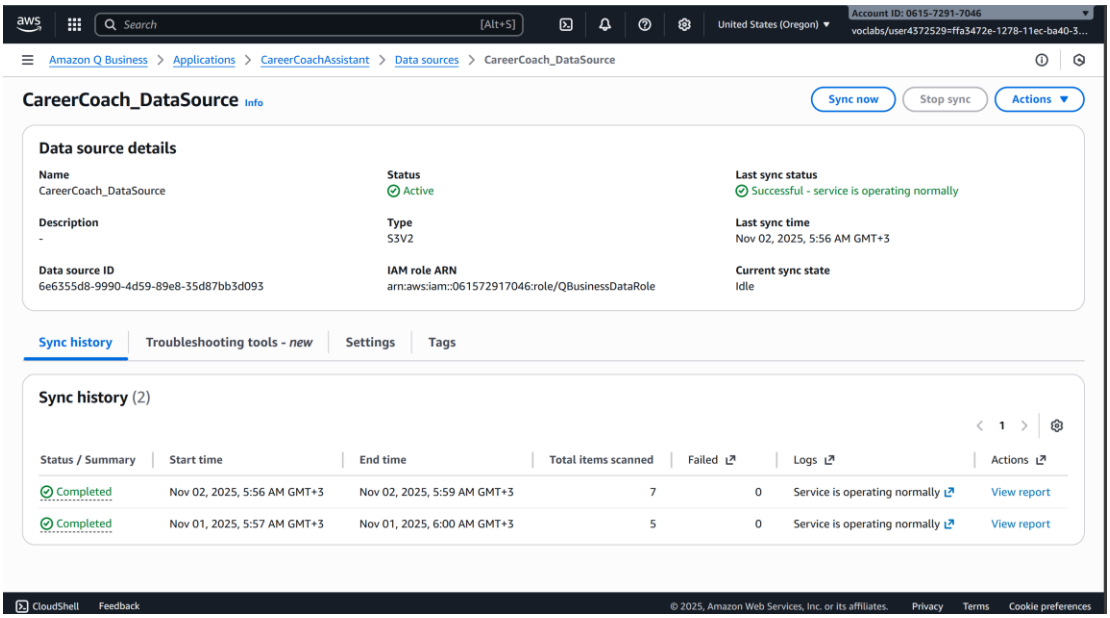


- **Functionality Verified**: Screenshots of both components working correctly.



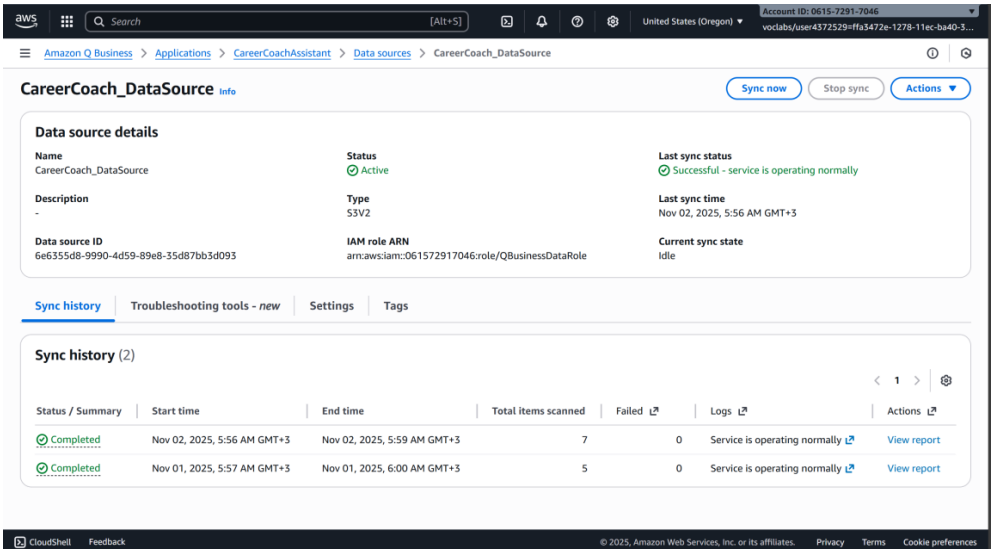
Data Source Integration

- **Static PDF Upload**: Course catalog uploaded and synced.
- **Amazon S3 Integration**: Training catalog file uploaded and synced.
- **Screenshots**: Confirm successful sync for both sources.

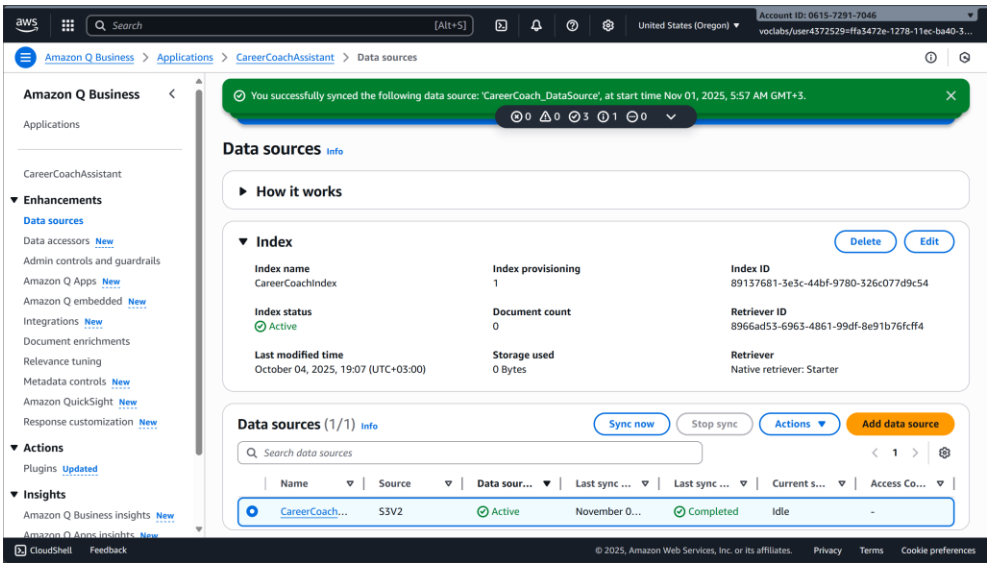


Automatic Updates

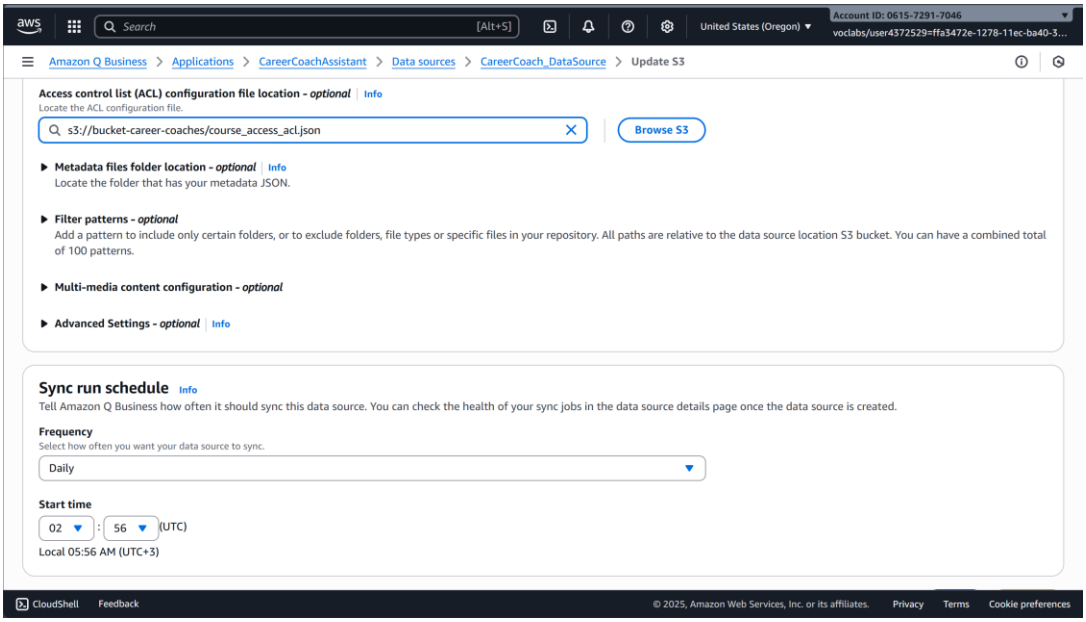
- **Scheduled Sync**: Daily sync configured for S3 data source.



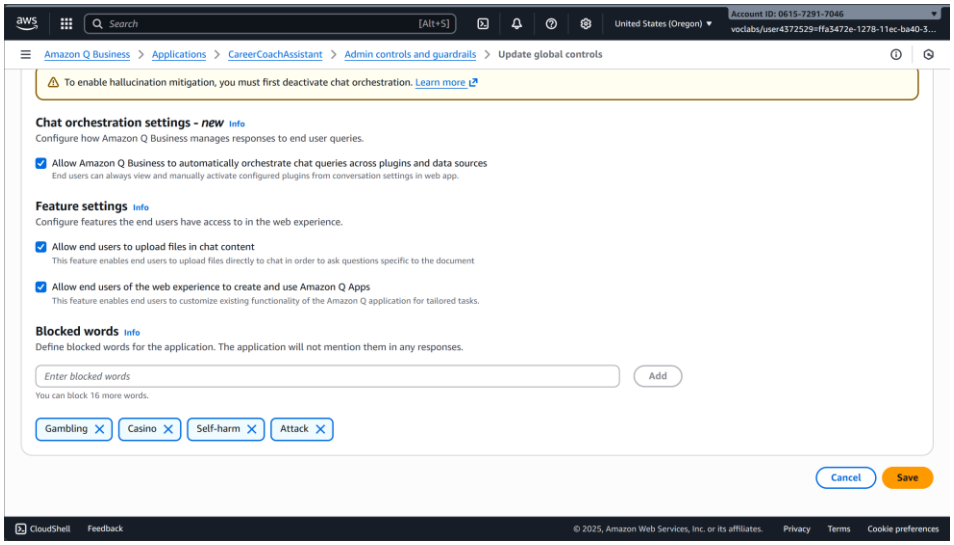
Security and Moderation

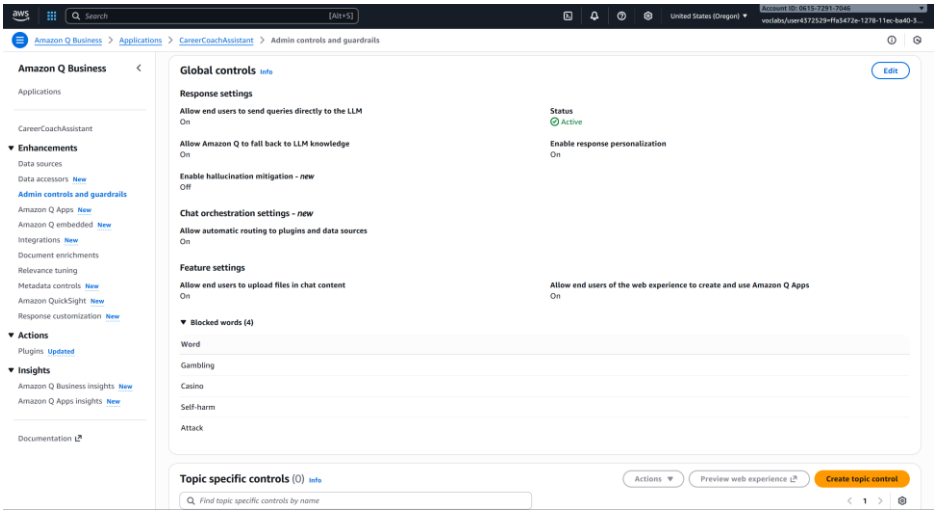
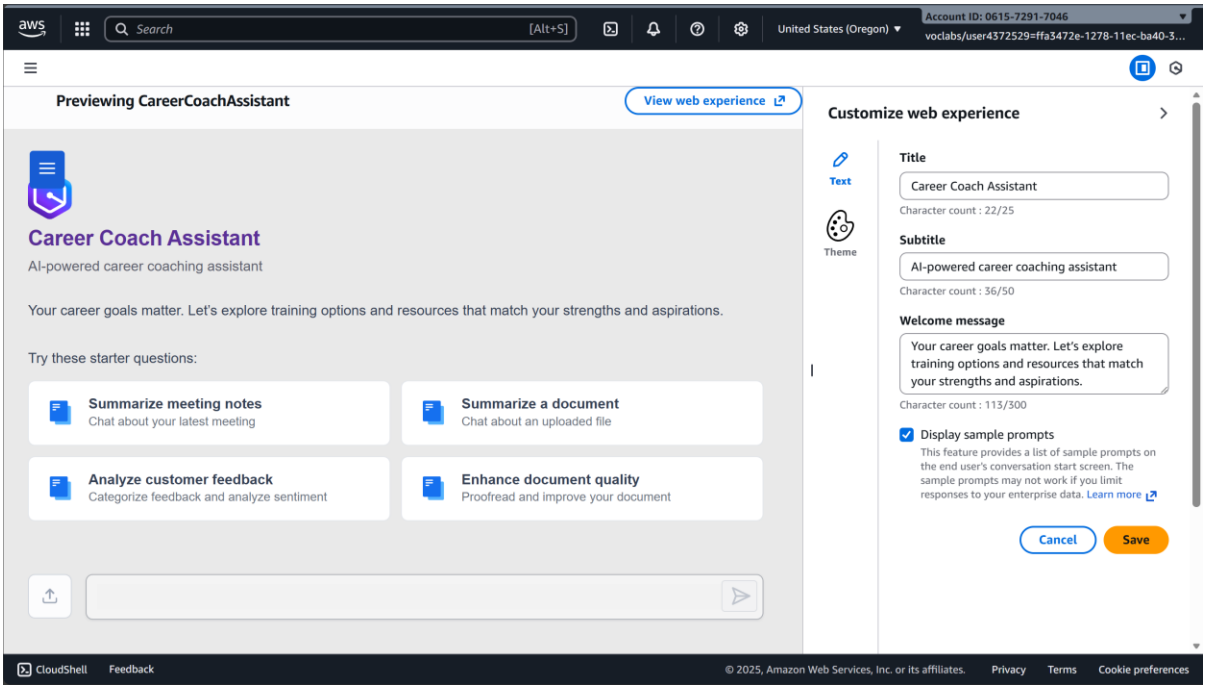
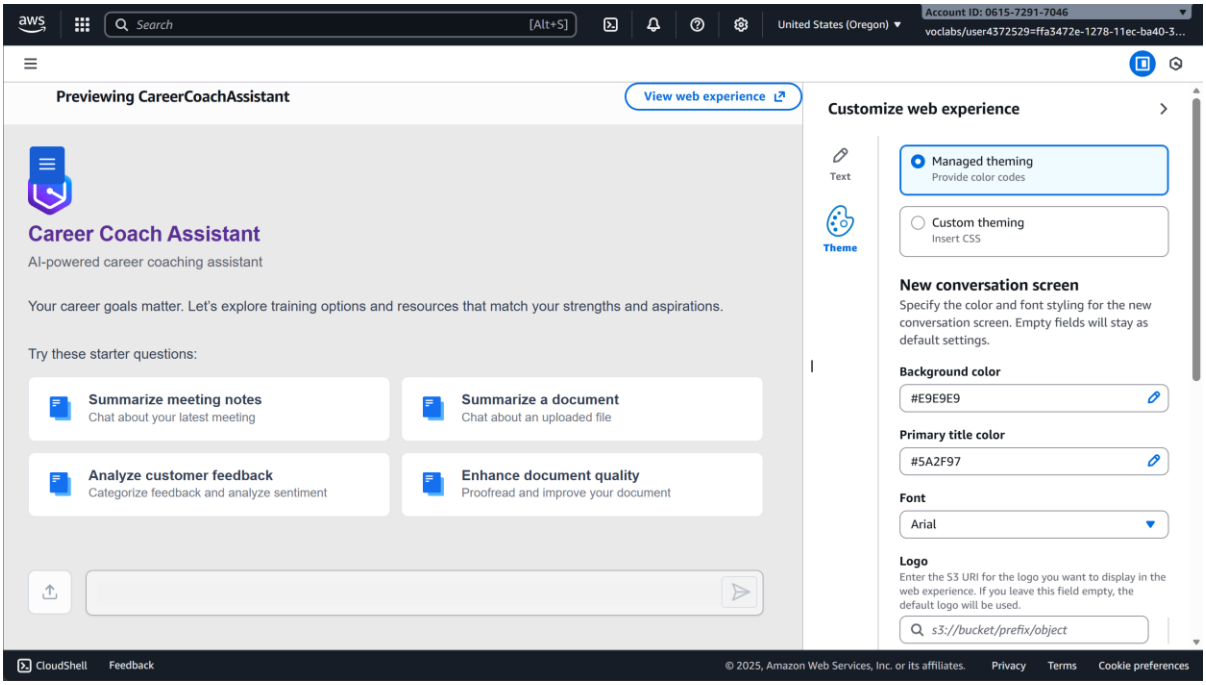


- **Access Control**: ACL file uploaded for CareerCoaches group (users: `career.coach.one`, `career.coach.two`).



- **Content Moderation**: Global Controls list configured to block restricted keywords (e.g., Gambling, Casino).


Search
[Alt+S]
United States (Oregon)
Account ID: 0615-7291-7046
voclabs/user4372529=ffa3472e-1278-11ec-ba40-3...
Amazon Q Business > Applications > CareerCoachAssistant > Admin controls and guardrails > Update global controls
To enable hallucination mitigation, you must first deactivate chat orchestration. Learn more
Chat orchestration settings - new Info
Configure how Amazon Q Business manages responses to end user queries.
Allow Amazon Q Business to automatically orchestrate chat queries across plugins and data sources
End users can always view and manually activate configured plugins from conversation settings in web app.
Feature settings Info
Configure features the end users have access to in the web experience.
Allow end users to upload files in chat content
This feature enables end users to upload files directly to chat in order to ask questions specific to the document
Allow end users of the web experience to create and use Amazon Q Apps
This feature enables end users to customize existing functionality of the Amazon Q application for tailored tasks.
Blocked words Info
Define blocked words for the application. The application will not mention them in any responses.
Enter blocked words
Add
You can block 16 more words.
Gambling
Casino
Self-harm
Attack
Cancel
Save
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Amazon Q Business > Applications > CareerCoachAssistant > Admin controls and guardrails
Amazon Q Business
Applications
CareerCoachAssistant
Enhancements
Data sources
Data accessors New
Admin controls and guardrails
Amazon Q Apps New
Amazon Q embedded New
Integrations New
Document enrichments
Relevance tuning
Metadata controls New
Amazon QuickSight New
Response customization New
Actions
Plugins Updated
Insights
Amazon Q Business insights New
Amazon Q Apps insights New
Documentation
Global controls Info
Edit
Response settings
Allow end users to send queries directly to the LLM
On
Status
Active
Allow Amazon Q to fall back to LLM knowledge
On
Enable response personalization
On
Enable hallucination mitigation - new
Off
Chat orchestration settings - new
Allow automatic routing to plugins and data sources
On
Feature settings
Allow end users to upload files in chat content
On
Allow end users of the web experience to create and use Amazon Q Apps
On
Blocked words (4)
Word
Gambling
Casino
Self-harm
Attack
Topic specific controls (0) Info
Actions
Preview web experience
Create topic control
Find topic specific controls by name

Enhancements