
TCU Computer Science

**PostAgent
Use Cases**

Version 1.1

Revision History

Date	Version	Description	Author
10/15/2025	1.0	Initial Draft	Alyssa Turenne Ryan Jordan Kayla Fruean Placide Ndayisenga Stephen Adeoye Charley Reavley
4/13/2026	1.1	Final Documentation	Alyssa Turenne Ryan Jordan Kayla Fruean Placide Ndayisenga Stephen Adeoye Charley Reavley

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Use Cases

Use Case List

Primary Actor	Use Cases
User	UC 1: User connects an external social media account UC 2: User saves a generated post to review queue UC 3: The user accesses the website UC 4: User views app details UC 5: User requests data from external social media account UC 6: User views visualization/graphs of performance data UC 7: User edits an AI generated post with AI chatbot UC 8: User edits an AI generated post with AI chatbot UC 9: User interacts with AI chatbot UC 10: User filters posts in content library UC 11: User searches posts in content library

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Use Case 1: User connects an external social media account

UC ID and Name:	UC-1: User connects an external social media account		
Created By:	Alyssa Turenne	Date Created:	10/15/2025
Primary Actor:	User	Secondary Actors:	External platform
Trigger:	The User indicates to connect a social media account.		
Description:	The User wants to connect an external social media account so the generated posts can be automatically posted to the selected accounts.		
Preconditions:	PRE-1: User has an account and subscription.		
Postconditions:	POST-1: External account is connected and shown in menu.		
Main Success Scenario:	<ol style="list-style-type: none">1. The User indicates to connect an external social media account.2. The System redirects to the given social media platform login page.3. The User enters all verification information to login to their existing account.4. The external platform validates the User's inputs according to their account.5. The System redirects the User back to PostAgent Creation Hub for edits.		
Extensions:	4a. User does not have an account with the external platform: 4a1. The System alerts the User that connection was not successful and suggests they create an account. 4a2. The User creates an account on the external platform and returns to step 4 of the normal flow.		
Priority:	Med		
Frequency of Use:	Approximately 3 times per user.		
Business Rules:	Security/access concerns.		
Associated Information:	Details: The User shall be able to cancel the use case at any time prior to submitting it.		
Related Use Cases			
Assumptions:			
Open Issues:			

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Use Case 2: User saves a generated post to review queue

UC ID and Name:	UC-2: User saves a generated post to review queue		
Created By:	Alyssa Turenne	Date Created:	10/15/2025
Primary Actor:	User	Secondary Actors:	System
Trigger:	The User indicates to save a current post to Review Queue.		
Description:	The User wants to neither Approve or Deny a generated post in the Spellbook, but rather save it for later.		
Preconditions:	PRE-1. A post has been generated by the AI tool and is open in the User preview.		
Postconditions:	POST-1. The generated post is stored in the System.		
Main Success Scenario:	<ol style="list-style-type: none">1. The Customer indicates to save a current post for later review.2. The System removes the post from the preview and saves it.3. The System saves the post to the Review Queue in the Content Library.4. The System displays a message to the user that the post has been saved and states where to find it.5. The User indicates whether to view the saved post or generate a new one.6. Use case ends.		
Extensions:	N/A		
Priority:	Med		
Frequency of Use:	Approximately all users, average of 3-5 usages per week.		
Business Rules:	N/A		
Associated Information:	N/A		
Related Use Cases:	N/A		
Assumptions:	N/A		
Open Issues:			

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Use Case 3: User navigates website to PostAgent

UC ID and Name:	UC-3:		
Created By:	Stephen Adeoye	Date Created:	10/14/2025
Primary Actor:	User	Secondary Actors:	Corevation Website
Trigger:	The user accesses the website		
Description:	The User wants to use the Corevation website to access their PostAgent and/or MENDmate accounts		
Preconditions:	PRE-1. The user has a stable internet connection. PRE-2. Main website is online and fully functional. PRE-3. Links to both products are active and correctly configured.		
Postconditions:	POST-1. Success: The user is properly brought to PostAgent		
Main Success Scenario:	<ol style="list-style-type: none">1. The User searches and clicks on the website via search engine or through URL2. The website homepage loads successfully3. The User is able to view the navigation bar or showcase page for the PostAgent redirect4. The User utilizes the redirect function and is successfully brought to the homepage of PostAgent.		
Extensions:	1a. The website takes too long to load, causing the user to refresh 3a. The user is unable to find the redirection 4a. The redirect fails		
Priority:	High		
Frequency of Use:	Average of one usage per day per user.		
Business Rules:	N/A		
Associated Information:	N/A		
Related Use Cases:	N/A		
Assumptions:	N/A		
Open Issues:			

Use Case 4: User views app details

UC ID and Name:	UC-10: User views app details		
Created By:	Kayla Fruean	Date Created:	10/15/2025
Primary Actor:	User	Secondary Actors:	System
Trigger:	The user clicks on an app card or link (e.g., "Learn More" on MendMate).		
Description:	The User wants to view detailed information about a Corevation app, such as MendMate or PostAgent. The website displays an overview of the selected app, including its description, key features, visuals, and a link to visit or download the app.		
Preconditions:	PRE-1. The Corevation website contains at least one listed app. PRE-2. The selected app has available details stored in the system.		
Postconditions:	POST-1. The System displays the selected app's detailed information page. POST-2. The User can follow an external link to access the app's official site or store page.		
Main Success Scenario:	<ol style="list-style-type: none"> 1. The User navigates to the Apps section of the Corevation website. 2. The System displays a list of apps offered by Corevation (e.g., MendMate, PostAgent). 3. The User selects an app to view more information. 4. The System retrieves and displays the selected app's details, including: <ol style="list-style-type: none"> a. App name and logo b. Description and key features c. Preview images or screenshots d. External link to learn more or download the app 5. The User reviews the information and optionally clicks the external link. 6. The System redirects the User to the external site in a new browser tab. 7. Use case ends. 		
Extensions:	N/A		
Priority:	High		
Frequency of Use:	N/A		
Business Rules:	N/A		
Associated Information:	Notification: <ul style="list-style-type: none"> • The System may display a visual confirmation (e.g., "Opening external link in new tab") when the User clicks the external link. • No external notifications are sent. 		
Related Use Cases:	N/A		
Assumptions:	N/A		
Open Issues:			

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Use Case 5: User requests data from external social media account

UC ID and Name:	UC-5: Request data from external social media account		
Created By:	Ryan Jordan	Date Created:	10/15/2025
Primary Actor:	User	Secondary Actors:	External platform, System
Trigger:	The User opens the performance analytics dashboard.		
Description:	The User wants to see external social media data on the performance analytics dashboard.		
Preconditions:	PRE-1. The User has connected the external accounts		
Postconditions:	POST-1. The data is shown on dashboard		
Main Success Scenario:	<ol style="list-style-type: none">1. The User opens the performance analytics dashboard.2. The System validates that the Users account has a linked external account3. The System requests data from an external platform.4. The System displays the relevant data from the external platform on the dashboard5. Use case ends.		
Extensions:	2a. Validation violation: 2a1.The System notifies the User that they do not have a linked account. 2a2.The User links external account and continues.		
Priority:	Medium		
Frequency of Use:	Multiple times per day, every user		
Business Rules:	N/A		
Associated Information:	The data displayed on the dashboard will be able to tell you trends over time.		
Related Use Cases	UC-1		
Assumptions:	N/A		
Open Issues:			

Use Case 6: User views visualizations/graphs of performance data

UC ID and Name:	UC-6: Displays visualizations of data on performance analytics dashboard		
Created By:	Ryan Jordan	Date Created:	10/15/2025
Primary Actor:	User	Secondary Actors:	System
Trigger:	The User opens a visualizations page		
Description:	The User wants to be able to view a visual representation of the data displayed on the performance analytics dashboard.		
Preconditions:	PRE-1. The User is logged into the System. PRE-2: The User has linked external social media accounts		
Postconditions:	POST-1. The visualizations are displayed to the User with related details.		
Main Success Scenario:	<ol style="list-style-type: none">1. The Users navigate to the visualizations page.2. The System retrieves the data from the performance analytics.3. The System generates visualization of the data.4. The System displays the visualizations to the User on the page.5. Use case ends.		
Extensions:	3a. No data to retrieve. 3a1. The System displays an error message with details. 3a2. The User fixes the issue via help from the error details.		
Priority:	Low		
Frequency of Use:	Every user, variable times per day		
Business Rules:	N/A		
Associated Information:	UC-1 and UC-5 are needed to be performed before UC-6 can be successfully implemented.		
Related Use Cases:	UC-1 UC-5		
Assumptions:	N/A		
Open Issues:			

Use Case 7: User edits an AI generated post text with AI chatbot

UC ID and Name:	UC-7: User edits an AI generated post text with AI chatbot		
Created By:	Charley Reavley	Date Created:	4/8/2026
Primary Actor:	User	Secondary Actors:	External Platform
Trigger:	The User indicates to edit a post text with AI.		
Description:	The User wants to edit a text that was created by the AI agent. This allows for either slight edits to be made or a complete text do-over.		
Preconditions:	PRE-1. The User has prompted the AI agent to edit a post text. PRE-2. The AI agent has created the new text.		
Postconditions:	POST-1. The text is edited per the User's request to the AI agent.		
Main Success Scenario:	<ol style="list-style-type: none"> 1. The User is given the AI-generated post text. 2. The User enters into the AI chatbox area that they desire certain changes to be made to the created text. 3. The User (if desired) selects sidebar options to assist with their prompt. 4. The AI agent receives the request from the User. 5. The AI agent makes the necessary changes per the User's request. 6. The AI agent outputs the edited text. 7. The User saves the new text. 8. Use case ends. 		
Extensions:	<p>1a. The user can manually edit the post text if desired.</p> <p>5a. The User changes their mind and wishes to use the original text</p> <p style="padding-left: 20px;">5a1. The User tells the AI agent to revert back to the original text or uses the undo/redo buttons.</p> <p style="padding-left: 20px;">5a2. The AI agent reverts back and returns the original text it presented.</p> <p>6a. The User can continue interacting with the chatbot until they are satisfied with the post text</p>		
Priority:	High		
Frequency of Use:	All Users, depends on User upload frequency		
Business Rules:	N/A		
Associated Information:	Any post that is saved with new AI-generated text will override the original post text within Pixie Polish.		
Related Use Cases:	UC-8 UC-9		
Assumptions:	The User is aware of how to use the AI chatbot		
Open Issues:			

Use Case 8: User edits an AI generated post image with AI chatbot

UC ID and Name:	UC-8: User edits an AI generated post image with AI chatbot		
Created By:	Charley Reavley	Date Created:	4/8/2026
Primary Actor:	User	Secondary Actors:	External Platform
Trigger:	The User indicates to edit a post image with AI.		
Description:	The User wants to edit an image that was created by the AI agent. This allows for either slight edits to be made or a complete image do-over.		
Preconditions:	PRE-1. The User has prompted the AI agent to edit a post text. PRE-2. The AI agent has created the new image.		
Postconditions:	POST-1. The image is edited per the User's request to the AI agent.		
Main Success Scenario:	<ol style="list-style-type: none"> 1. The User is given the AI-generated post image. 2. The User enters into the AI chatbox area that they desire certain changes to be made to the created image. 3. The User (if desired) selects sidebar options to assist with their prompt. 4. The AI agent receives the request from the User. 5. The AI agent makes the necessary changes per the User's request. 6. The AI agent outputs the edited image. 7. The User saves the new image. 8. Use case ends. 		
Extensions:	<p>5a. The User changes their mind and wishes to use the original image</p> <p style="padding-left: 20px;">5a1. The User tells the AI agent to revert back to the original image or uses the undo/redo buttons.</p> <p style="padding-left: 20px;">5a2. The AI agent reverts back and returns the original image it presented.</p> <p>6a. The User can continue interacting with the chatbot until they are satisfied with the post image</p>		
Priority:	High		
Frequency of Use:	All Users, depends on User upload frequency		
Business Rules:	N/A		
Associated Information:	Any post that is saved with new AI-generated image will override the original post text within Pixie Polish.		
Related Use Cases:	UC-7 UC-9		
Assumptions:	The User is aware of how to use the AI chatbot		
Open Issues:			

Use Case 9: User interacts with AI chatbot

UC ID and Name:	UC-9: User interacts with AI chatbot		
Created By:	Placide Ndayisenga	Date Created:	10/14/2025
Primary Actor:	User	Secondary Actors:	External social platform
Trigger:	The user starts interacting/talking with the chatbot.		
Description:	The user wants to generate or regenerate a post text or post image or talk to the chatbot about a post.		
Preconditions:	PRE-1. The user has an account and a subscription. PRE-2. The user has external accounts connected (facebook, linkedin, etc) PRE-3. The user already has a post created in Pixie Polish.		
Postconditions:	POST-1. The external account(s) are connected.		
Main Success Scenario:	<ol style="list-style-type: none"> 1. The user starts a new session 2. The user prompts the chatbot to edit a post text or post image 3. The user selects left sidebar options to assist with their prompt 4. The user enters a prompt in the chat box 5. The user sends the prompt to the chatbot 6. The user validates (approve or rejects) generated text for the post. 7. The system updates the post in content library 		
Extensions:	<p>3a. The user is not required to enter in sidebar options to send a prompt, nor are they required to send a prompt with selected sidebar options.</p> <p>6a. The user chooses to repeat step 3 where they provide feedback for the system to follow or just regenerate without any info given. Step 4 follows after 3 and repeats until the user is satisfied.</p>		
Priority:	High		
Frequency of Use:	Every day		
Business Rules:	N/A		
Associated Information:	N/A		
Related Use Cases:	UC 7 UC 8		
Assumptions:	The user has connected their social accounts that they want to post to.		
Open Issues:			

Use Case 10: User filters posts in content library

UC ID and Name:	UC-10: User filters posts in content library		
Created By:	Kayla Fruean	Date Created:	10/15/2025
Primary Actor:	User	Secondary Actors:	System
Trigger:	The User indicates to filter posts in the content library.		
Description:	The User wants to filter posts by type, date of creation, or media platform that it was posted to.		
Preconditions:	PRE-1. There exists at least one post in the content library.		
Postconditions:	POST-1. Only posts in the selected category are shown, while the others are hidden.		
Main Success Scenario:	<ol style="list-style-type: none">1. The User opens the content library page.2. The System displays all existing posts by default.3. The User selects a filter option (e.g., type, date of creation, or media platform).4. The System processes the selected filter.5. The System updates the display to show only posts that match the selected category.6. The User views the filtered list of posts.7. Use case ends.		
Extensions:	N/A		
Priority:	High		
Frequency of Use:	Approximately 1 user, average of 1 usage per week.		
Business Rules:	N/A		
Associated Information:	N/A		
Related Use Cases:	N/A		
Assumptions:	N/A		
Open Issues:	N/A		

Use Case 11: User searches posts in content library

UC ID and Name:	UC-11: User searches posts in content library		
Created By:	Kayla Fruean	Date Created:	10/16/2025
Primary Actor:	User	Secondary Actors:	System
Trigger:	The User enters a search query in the content library search bar.		
Description:	The User wants to locate specific posts in the content library by entering a keyword or phrase. The System filters and displays only posts that match the search criteria.		
Preconditions:	PRE-1. There exists at least one post in the content library. PRE-2. The User is on the content library page.		
Postconditions:	POST-1. Only posts that match the search term are displayed. POST-2. If no posts match, a "No results found" message is shown.		
Main Success Scenario:	<ol style="list-style-type: none"> 1. The User opens the content library page. 2. The System displays all posts by default. 3. The User enters a keyword in the search bar. 4. The System processes the search query. 5. The System filters and displays only posts that contain the keyword in their title, description, or tags. 6. The User reviews the search results. 7. Use case ends. 		
Extensions:	3a. The User enters an empty search query → The System displays all posts again. 5a. No matching posts are found → The System displays a "No results found" message.		
Priority:	High		
Frequency of Use:	Approximately 2-3 times per week per user.		
Business Rules:	The search is case-insensitive. The search applies to post titles, descriptions, and tags.		
Associated Information:	Search results can be combined with filters (e.g., search specific post name).		
Related Use Cases:	UC-10: User filters posts in content library		
Assumptions:	The System supports keyword-based search.		
Open Issues:	OI-1. Should the System support advanced search (e.g., multiple keywords, date ranges)?		

Use Case 12: AI Insights for Analytics Dashboard

UC ID and Name:	UC-12: AI produces insights based on available metrics		
Created By:	Ryan Jordan	Date Created:	04/08/26
Primary Actor:	AI agent	Secondary Actors:	System
Trigger:	The User opens the dashboard		
Description:	The User opens the analytics dashboard and the AI agent will receive a prompt asking it for comment on the metrics available in the database. The AI agent's response will then be displayed to the user in a paragraph format.		
Preconditions:	PRE-1. The User is logged into the System. PRE-2: The User has linked external social media accounts		
Postconditions:	POST-1. The insights generated by the AI agent are displayed to the User		
Main Success Scenario:	<ol style="list-style-type: none"> 1. The User opens the analytics dashboard 2. The AI agent receives a prompt detailing the desired comments on the metrics collected on the database from external platforms 3. The AI agent creates a response to the given prompt 4. The AI agent sends its response to the dashboard 5. The User is able to view the insights 6. The use case ends 		
Extensions:	3a. No data to read. 3a1. No insights are displayed.		
Priority:	Low		
Frequency of Use:	Every user, variable times per day		
Business Rules:	N/A		
Associated Information:	UC-1 and UC-5 are needed to be performed before UC-12 can be successfully implemented.		
Related Use Cases:	UC-1 UC-5		
Assumptions:	N/A		
Open Issues:			