Use Case Suite

Project Information

Project: Agro-Climatic Advisory Portal - Bicol (ACAP-BICOL), ACAP 1.0

Release Number: 4.0
Date updated: August 25, 2023

Description: This document discusses ways in which a user will interact with the system. Describing the user-system interaction aims to provide methods of visualizing the system architecture, managing scopes, and establishing requirements.

Use Cases by Functional Area

- **Public web page viewing**
  - UC-00: View Home page
  - UC-01: View Cropping Calendar
  - UC-02: View ACAP Services page
  - UC-03: View ACAP Services - 10-Day Weather Forecast Municipality Selector
  - UC-04: View ACAP Services - Seasonal Weather Forecast
  - UC-05: View ACAP Services - Special Weather Forecast
  - UC-06: View Bulletins page
  - UC-07: View Recommendations page
  - UC-08: View Admin login page
  - UC-09: View Super admin login page
  - UC-10: Site Search

- **Public Recommendations Generator**
  - UC-11: Generate public seasonal recommendations
  - UC-12: Generate public 10-day outlook recommendations
  - UC-13: View the Tagalog or English translation of generated public recommendations

- **Public Bulletins PDF Download**
  - UC-14: View 10-day outlook bulletins download page
  - UC-15: View seasonal outlook bulletins download page
  - UC-16: View special weather forecast bulletins download page
  - UC-17: Download bulletin PDF
  - UC-18: Delete bulletin PDF

- **Login and Authentication**
  - UC-19: Login (Administrator)
  - UC-20: Login (Super Administrator)

- **Seasonal weather forecast management**
  - UC-21: Upload PAGASA seasonal outlook Excel file
  - UC-22: Encode seasonal forecast tropical cyclone
  - UC-23: Create new seasonal forecast weather system
  - UC-24: Delete a seasonal forecast weather system
  - UC-25: Undo unsaved updates to seasonal forecast weather system

- **10-day weather forecast management**
  - UC-19: Login (Administrator)
  - UC-26: Upload 10-day forecast PAGASA Excel files

- o UC-27: Edit 10-day forecast moon phases

- **Tropical cyclone forecast management**
  - o UC-19: Login (Administrator)
  - o UC-28: Manual sync PAGASA special weather forecast
  - o UC-29: Add new wind speed, province and municipalities list group
  - o UC-30: Edit a windspeed, province and municipalities list group
  - o UC-31: Delete a windspeed, province and municipalities list group

- **Crop Recommendations (Seasonal, 10-day and Special Weather) Bulletins and Reports Management**
  - o UC-19: Login (Administrator)
  - o UC-32: Generate seasonal crop recommendations website preview
  - o UC-33: Generate 10-day crop recommendations website preview
  - o UC-34: Generate special weather crop recommendations website preview
  - o UC-35: View the Tagalog or English translation of generated recommendations
  - o UC-36: Preview PDF bulletin of generated crop recommendations (for 10-day, seasonal and special outlook forecasts)
  - o UC-37: Create seasonal crop recommendations report
  - o UC-38: Create 10-day crop recommendations report
  - o UC-39: Create special weather crop recommendations report

- o UC-40: View crop recommendations reports list
- o UC-41: View the PDF form of a crop recommendation report
- o UC-42: View the SMS form of a crop recommendation report
- o UC-43: Delete a crop recommendation report

- **Phonebook contacts list management**
  - o UC-19: Login (Administrator)
  - o UC-44: Add contact
  - o UC-45: View contact details
  - o UC-46: Edit contact details
  - o UC-47: Delete contact
  - o UC-48: Search for contact

- **SMS management**
  - o UC-19: Login (Administrator)
  - o UC-49: View list of SMS recommendations
  - o UC-50: View logs of an SMS recommendation
  - o UC-51: Send an SMS recommendation to a Contact
  - o UC-52: Send an SMS recommendation to multiple Contacts

- **User Profile Management**
  - o UC-19: Login (Administrator)
  - o UC-20: Login (Super Administrator)
  - o UC-53: View profile information
  - o UC-54: Update account password

- **Accounts Management**
  - o UC-55: View users list
  - o UC-56: Create a new user
  - o UC-57: View user details
  - o UC-58: Update user information

- o UC-59: Delete a user

- **Configure Database**
  - o UC-60: Set Firebase Rules
  - o UC-62: Upload crop recommendations Excel file data to database
  - o UC-63: Upload cropping calendar CSV file data to database
  - o UC-61: Seed database with default data

- **PAGASA Weather Forecast Management**
  - o UC-64: Cron job - auto sync PAGASA 10-day Excel weather forecast files to database
  - o UC-65: Cron job auto - sync PAGASA El Nino / La Nina text content to database
  - o UC-66: Cron job - auto sync PAGASA Tropcical Cyclone text content to database

Use Cases by Stakeholder

Public Website Viewer

- UC-00: View Home page
- UC-01: View Cropping Calendar
- UC-02: View ACAP Services page
- UC-03: View ACAP Services - 10-Day Weather Forecast Municipality Selector
- UC-04: View ACAP Services - Seasonal Weather Forecast
- UC-05: View ACAP Services - Special Weather Forecast
- UC-06: View Bulletins page
- UC-07: View Recommendations page
- UC-08: View Admin login page
- UC-09: View Super admin login page

- UC-11: Generate public seasonal recommendations
- UC-12: Generate public 10-day outlook recommendations
- UC-14: View 10-day outlook bulletins download page
- UC-15: View seasonal outlook bulletins download page
- UC-16: View special weather forecast bulletins download page
- UC-17: Download bulletin PDF
- UC-18: Delete bulletin PDF

Administrator

- UC-19: Login (Administrator)
- UC-21: Upload PAGASA seasonal outlook Excel file
- UC-22: Encode seasonal forecast tropical cyclone
- UC-23: Create new seasonal forecast weather system
- UC-24: Delete a seasonal forecast weather system
- UC-25: Undo unsaved updates to seasonal forecast weather system
- UC-26: Upload 10-day forecast PAGASA Excel files
- UC-27: Edit 10-day forecast moon phases
- UC-28: Manual sync PAGASA special weather forecast
- UC-29: Add new wind speed, province and municipalities list group
- UC-30: Edit a windspeed, province and municipalities list group
- UC-31: Delete a windspeed, province and municipalities list group
- UC-32: Generate seasonal crop recommendations website preview

- UC-33: Generate 10-day crop recommendations website preview
- UC-34: Generate special weather crop recommendations website preview
- UC-35: View the Tagalog or English translation of generated recommendations preview
- UC-36: Preview PDF bulletin of generated crop recommendations (for 10-day, seasonal and special outlook forecasts)
- UC-37: Create seasonal crop recommendations report
- UC-38: Create 10-day crop recommendations report
- UC-39: Create special weather crop
- UC-40: View crop recommendations reports list recommendations report
- UC-41: View the PDF form of a crop recommendation report
- UC-42: View the SMS form of a crop recommendation report
- UC-43: Delete a crop recommendation report
- UC-44: Add contact
- UC-45: View contact details
- UC-46: Edit contact details
- UC-47: Delete contact
- UC-48: Search for contact
- UC-49: View list of SMS recommendations
- UC-50: View logs of an SMS recommendation
- UC-51: Send an SMS recommendation ta Contact
- UC-52: Send an SMS recommendation tmultiple Contacts
- UC-53: View profile information
- UC-54: Update account password

Super Administrator

- UC-20: Login (Super Administrator)

- UC-53: View profile information
- UC-54: Update account password
- UC-55: View admin users list
- UC-56: Create a new useristrator
- UC-57: View user details
- UC-58: Update user information
- UC-59: Delete a user

System Administrator

- UC-60: Set Firebase Rules
- UC-62: Upload crop recommendations Excel file data to database
- UC-62: Upload cropping calendar CSV file data to database
- UC-61: Seed database with default data
- UC-64: Cron job - auto sync PAGASA 10-day Excel weather forecast files to database
- UC-65: Cron job auto - sync PAGASA El Nino / La Nina text content to database
- UC-66: Cron job - auto sync PAGASA Tropcical Cyclone text content to database

Stakeholders

- **Public Website Viewer**
  - Regular users who view the website public pages without administrator access
- **Administrator**
  - Users who can login to the website and perform administrative actions such as generating PDF bulletins and sending SMS text
- **Super Administrator**
  - Users who can create Administrator user accounts
- **System Administrator**
  - User in charge of setting up the system and deploying the frontend

and backend to their respective cloud environments. Ideally, a programmer or software developer

Use Cases by Business Object and Actor

BO/Actor	All	Public Website Viewer	Administrator	Super Administrator	System Administrator
User Record			View profile Update profile	View profile Update profile Create admin user Update admin user Delete admin user	
Recommendation			view		update
Weather Forecast	view		update		update
Cropping Calendar	view				update
Report			Create View delete		
Bulletin PDF	view/download		Create delete		
Contacts			Create Update Delete view		
SMS			Send SMS View logs		
Public web pages	view				Set-up deploy
Administrator web pages			view		Set-up deploy
Super Administrator web pages				view	Set-up deploy

UC-00: View Home page

Summary:	Enables all users to view the interactive web map in the Home page
Priority:	Desired
Use Frequency:	Always
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. visit the Home page in the deployed website's root URL: https://amia-cis.github.io/ 2. View information of the pinned AMIA villages in the interactive web map. 3. Select a municipality name under the municipality selector drop-down options. a. View the resulting 10-day weather forecast summary of the

	selected municipality under the 10-day weather forecast window 4. Hover on a pin to view information of an AMIA village
Alternative Scenario:	
Notes and Questions:	

UC-01: View Cropping Calendar

Summary:	Enables all users to view the interactive cropping calendar
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	

Main Success Scenario:	1. Visit the Cropping Calendar page URL at: https://amia-cis.github.io/cropping-calendar/ 2. Select a province. 3. Select a municipality. 4. View the resulting cropping calendar for the selected parameters.
Alternative Scenario:	
Notes and Questions:	

UC-02: View ACAP Services page

Summary:	Enables all users to view the interactive ACAP Services page containing a summary of mixed admin-input and PAGASA 10-day, seasonal and special weather forecast data
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the ACAP Services page URL at: https://amia-cis.github.io/weather-services 2. Select a province and municipality under the 10-day weather forecast Location Selector 3. View seasonal weather forecast data under the Seasonal Forecast section. 4. View tropical cyclone information under the Special Weather Forecast section
Alternative Scenario:	
Notes and Questions:	

UC-03: View ACAP Services - 10-Day Weather Forecast Municipality Selector

Summary:	Enables all users to view the interactive PAGASA 10-Day Weather Forecast selector by municipality
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the ACAP Home page URL (or other ACAP public web page) at: https://amia-cis.github.io/ 2. Press the ACAP SERVICES button in the upper navigation menu.

	3. Select "*10-Day Weather Forecast*" 4. Select a "province" and "municipality" in the 10-day weather forecast Location Selector under the Seasonal Forecast View the 10-Day Weather Forecast outlook for the selected province and municipality.

Alternative Scenario:	1. View the 10-Day Weather Forecast section using other methods:
	    a. Visit the ACAP Services page URL at: https://amia-cis.github.io/weather-services
	    b. Visit the ACAP Services – *x* section directly in the URL: https://amia-cis.github.io/weather-services/#special-weather-forecast
	 2. Proceed to view the 10-Day Weather Forecast outlook of selected provinces and municipalities. Carry on from the **Main Success Scenario #4.**

Notes and Questions:	

UC-04: View ACAP Services - Seasonal Weather Forecast

Summary:	Enables all users to view the PAGASA Seasonal Weather Forecast summary
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the ACAP Home page URL (or other ACAP public web page) at: https://amia-cis.github.io/ 2. Press the ACAP SERVICES button in the upper navigation menu. 3. Select "*Seasonal Forecast*" 4. View the Seasonal Weather Forecast outlook summary including the *Rainfall Analysis* table for all provinces of the current region.

Alternative Scenario	1. View the Seasonal Weather Forecast section using other methods:
	    a. Visit the ACAP Services page URL at: https://amia-cis.github.io/weather-services
	    b. Visit the ACAP Services – *Seasonal Weather Forecast* section directly in the URL: https://amia-

	cis.github.io/weather-services/#seasonal-forecast 2. Proceed to view the Seasonal Weather Forecast outlook of all provinces of the current region. Carry on from the **Main Success Scenario #4.**
Notes and Questions:	

UC-05: View ACAP Services - Special Weather Forecast

Summary:	Enables all users to view the PAGASA Special Weather Forecast (Tropical Cyclone) summary
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the ACAP Home page URL (or other ACAP public web page) at: https://amia-cis.github.io/ 2. Press the ACAP SERVICES button in the upper navigation menu. 3. Select "***Special Weather Forecast***" 4. View the Special Weather Forecast summary. a. If the PAGASA Tropical Cyclone Bulletin web page [link] have cyclone data (there's an active typhoon): View the latest wind signal, location of eye/center, and other relevant tropical cyclone summary. b. If the PAGASA Tropical Cyclone Bulletin web page [link] have no cyclone data (there's no active typhoon): View the message *"No Active Tropical Cyclone within the Philippine Area of Responsibility."*
Alternative Scenario:	1. View the Special Weather Forecast section using other methods: a. Visit the ACAP Services page URL at: https://amia-cis.github.io/weather-services b. Visit the ACAP Services – ***Special Weather Forecast*** section directly in the URL: https://amia-cis.github.io/weather-

	services/#special-weather-forecast 2. Proceed to view the PAGASA Special Weather Forecast summary. Carry on from the **Main Success Scenario #4.**
Notes and Questions:	

UC-06: View Bulletins page

Summary:	Enables all users to view the Bulletins download page containing download links for admin-generated 10-day, seasonal and special weather forecast bulletin PDF files
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the Bulletins page URL at: https://amia-cis.github.io/bulletins/
Alternative Scenario:	
Notes and Questions:	

UC-07: View Recommendations page

Summary:	Enables all users to view the public Seasonal or 10-Day Farm Weather Outlook and Advisory Recommendations generator
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the Recommendation page URL at: https://amia-cis.github.io/agroclimatic-services/
Alternative Scenario:	
Notes and Questions:	

UC-08: View Admin login page

Summary:	Enables all users to view the public login page for ACAP Administrators
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	1. Administrator is signed-out.

Main Success Scenario:	1. Visit the Admin login page URL at: https://amia-cis.github.io/admin/login/ 2. View the login prompt for Administrator user name and password.
Alternative Scenario:	1. Go to the deployed website's URL in https://amia-cis.github.io/ 2. Press the LOGIN tab in the top navigation bar. 3. View the login prompt user Administrator user name and password.
Notes and Questions:	

UC-09: View Super admin login page

Summary:	Enables all users to view the public login page for ACAP Super Administrators
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	1. Super Administrator is signed-out.
Main Success Scenario:	1. Visit the Super Admin login page URL at: https://amia-cis.github.io/superadmin/login/ 2. View the login prompt for Super Administrator user name and password.
Alternative Scenario:	
Notes and Questions:	

UC-10: Site Search

Summary:	Enables all users to search for keywords within the website and display a list of URL links matching in-site web pages containing the matching search keywords
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	1. Super Administrator is signed-out. 2. Run the NPM script *"npm run build:page_index"* in case new words were added to website.
Main Success Scenario:	1. Visit the ACAP Home page URL (or other ACAP public web page) at: https://amia-cis.github.io/

	2. Press the MAGNIFIER ICON in the rightmost corner of the upper navigation menu. 3. Enter a keyword to search for in the SEARCH BAR. 4. View the resulting URL links to in-site web pages containing the keyword searched for. 5. Click any of the URL links from the list in **step #4**.
Alternative Scenario:	1. Anytime the SEARCH BAR is visible from the Main Success Scenario #3: a. Press the [X] ICON to dismiss the SEARCH BAR
Notes and Questions:	

UC-11: Generate public seasonal recommendations

Summary:	Enables all users to generate ***seasonal outlook crop recommendations*** (for viewing only) under the ***UC-07 View Recommendations page***
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the ACAP Home page URL (or other ACAP public web page) at: https://amia-cis.github.io/ 2. Press the RECOMMENDATIONS button in the upper navigation menu. 3. Select ***"Regional Seasonal Climate Outlook and Advisory"*** 4. Select input parameter for: province, municipality, crop type, **month**, crop stage and activity 5. Press the FINISH button to generate recommendations

Alternative Scenario:	1. View the public Seasonal Recommendations section using other methods:
	  a. Visit the Recommendations page URL at: https://amia-cis.github.io/agroclimatic-services
	  b. Visit the ***Seasonal Recommendations*** section directly in the URL: https://amia-cis.github.io/agroclimatic-services/#seasonal-recommendations
	2. Proceed to generate and view public Seasonal recommendations. Carry on from the **Main Success Scenario #4**.

Notes and Questions:	

UC-12: Generate public 10-day outlook recommendations

Summary:	Enables all users to generate ***10-day outlook crop recommendations*** (for viewing only) under the ***UC-07 View Recommendations page***
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the ACAP Home page URL (or other ACAP public web page) at: https://amia-cis.github.io/ 2. Press the RECOMMENDATIONS button in the upper navigation menu. 3. Select **"10-Day Farm Weather Outlook and Advisory"** 4. Select input parameter for: province, municipality, **date**, crop type, crop stage and activity 5. Press the FINISH button to generate recommendations

Alternative Scenario:	1. View the public 10-Day Farm Weather Outlook and Advisory Recommendations section using other methods:
	  a. Visit the Recommendations page URL at: https://amia-cis.github.io/agroclimatic-services
	  b. Visit the **10-Day Farm Weather Outlook and Advisory Recommendations** section directly in the URL: https://amia-cis.github.io/agroclimatic-services/#resilient-practices
	2. Proceed to generate and view public Seasonal recommendations. Carry on from the **Main Success Scenario #4**.

Notes and Questions:	

UC-13: View the Tagalog or English translation of generated public recommendations

Summary:	Enables all users to view the Tagalog or English translations of generated crop recommendations under the (for viewing only) ***UC-07 View Recommendations page***
Priority:	Essential
Use Frequency:	Optional

Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the Recommendations page URL at: https://amia-cis.github.io/agroclimatic-services/ 2. Generate a ***seasonal outlook*** or ***10-day outlook*** crop recommendations. 3. Toggle the Tagalog/English button in the resulting recommendations to view text
Alternative Scenario:	
Notes and Questions:	

UC-14: View 10-day outlook bulletins download page

Summary:	Enables all users to view the ***10-day outlook bulletins PDF download*** page from ***UC-06 View Bulletins page***
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the Bulletins page URL at: https://amia-cis.github.io/bulletins/ 2. Press the VIEW button under the **10-Day Farm Weather Outlook** sub section.
Alternative Scenario:	1. Alternately, visit the 10-day farm weather outlook bulletins page URL directly at: https://amia-cis.github.io/bulletins/weather/
Notes and Questions:	

UC-15: View seasonal outlook bulletins download page

Summary:	Enables all users to view the ***seasonal outlook bulletins PDF download*** page from ***UC-06 View Bulletins page***
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the Bulletins page URL at: https://amia-cis.github.io/bulletins/ 2. Press the VIEW button under the **Seasonal Outlook** sub section.
Alternative Scenario:	1. Alternately, visit the seasonal outlook bulletins page URL directly at:

	https://amia-cis.github.io/bulletins/seasonal-outlook/
Notes and Questions:	

UC-16: View special weather forecast bulletins download page

Summary:	Enables all users to view the ***special weather forecast bulletins PDF download*** page from ***UC-06 View Bulletins page***
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the Bulletins page URL at: https://amia-cis.github.io/bulletins/ 2. Press the VIEW button under the **Special Weather Forecast** sub section.
Alternative Scenario:	1. Alternately, visit the special weather forecast bulletins page URL directly at: https://amia-cis.github.io/bulletins/special-weather-forecast/
Notes and Questions:	

UC-17: Download bulletin PDF

Summary:	Enables all users to download a bulletin PDF
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	Website viewer
Stakeholder/s:	All
Prerequisite/s:	
Main Success Scenario:	1. Visit the any of the _10-day outlook_, _seasonal outlook_ or _special weather forecast_ bulletin pages like described in **UC-14**, **UC-15** or **UC-16**. 2. Click a province name from the resulting page to view a list of bulletin PDFs. 3. Click the title of a bulletin PDF to start downloading a PDF file.
Alternative Scenario:	1. Clicking a province name from the resulting page to view a list of bulletin PDFs in the **Main Success Scenario #2**: a. The list may be empty
Notes and Questions:	

UC-18: Delete bulletin PDF

Summary:	Enables all signed-in Administrator users to delete a bulletin PDF
Priority:	Essential
Use Frequency:	Rarely (as needed)
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Visit the any of the _10-day outlook_, _seasonal outlook_ or _special weather forecast_ bulletin pages like described in **UC-14**, **UC-15** or **UC-16** after signing in as an Administrator. 2. Click a province name from the resulting page to view a list of bulletin PDFs. 3. Click the DELETE button (trash can icon) beside the file name of a bulletin PDF to start deleting the PDF file.
Alternative Scenario:	1. Clicking a province name from the resulting page to view a list of bulletin PDFs in the **Main Success Scenario #2**: a. The list may be empty
Notes and Questions:	

UC-19: Login (Administrator)

Summary:	Enables Administrator users to signin to their ACAP account
Priority:	Essential
Use Frequency:	Always
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. Signing in to the ACAP Admin pages requires Administrator account credentials. 2. Request for an Administrator account from a designated Super Administrator.
Main Success Scenario:	1. Go to the Administrator login page on https://amia-cis.github.io/admin/login/ 2. Sign-in using an Administrator account. 3. View the "Get Started" welcome page.
Alternative Scenario:	The following scenarios will display an error message while signing at: 1. Signing in with an incorrect username or password. 2. Signing in using a "disabled" account.
Notes and Questions:	

UC-20: Login (Super Administrator)

Summary:	Enables Super Administrator users to signin to their ACAP account
Priority:	Essential
Use Frequency:	Always
Direct Actor/s:	Super Administrator
Stakeholder/s:	Super Administrator
Prerequisite/s:	1. Signing in to the ACAP Super Administrator pages requires Super Administrator account credentials. 2. Super Administrators are usually System Administrators, who initially set-up, deployed and configured the system. 3. Request for an Administrator account from a designated Super Administrator, or create a Super Administrator account during system configuration and initialization.
Main Success Scenario:	1. Go to the Super Administrator login page on https://amia-cis.github.io/superadmin/login/ 2. Sign-in using a Super Administrator account. 3. View the "Welcome ACAP Super Admin" welcome page.
Alternative Scenario:	The following scenarios will display an error message while signing at: 1. Signing in with an incorrect username or password. 2. Signing in using a "disabled" account.
Notes and Questions:	

UC-21: Upload PAGASA seasonal outlook Excel file

Summary:	Enables signed-in Administrators to update ACAP's **seasonal weather forecast** by uploading an updated seasonal weather forecast Excel file (received from PAGASA thru email)
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the **ACAP Settings** -> **Seasonal** tab. 2. Click the <u>magnifying glass icon</u> under the **"Upload an excel file"** label to browse, search and select the PAGASA seasonal weather forecast Excel file.

	a. Press the [X] button to cancel 3. Fill up the (6) text input with appropriate values under the **"Tropical Cyclone Input"** section. Use the No. of Tropical Cyclones tab found in the PAGASA seasonal weather forecast Excel file as reference. 4. Press the UPLOAD button. 5. Wait for the upload process to finish. An "Upload success" notification should appear after a successful upload. 6. Confirm that the website's seasonal weather forecast data is successfully updated. View the Rainfall Analysis table (also within the page tab) for reference.

Alternative Scenario:	The following scenarios will display error messages upon encountering errors uploading the PAGASA seasonal weather forecast Excel File:
	
	1. Errors on Excel file validation
	  a. i.e, incorrect values, mismatching columns, incorrect months, and others
	  b. Excel file structure that greatly differs from the Excel file structure known by the parser script.
	2. Network errors accessing the NodeJS REST APIs hosted in Render.

Notes and Questions:	

UC-22: Encode seasonal forecast tropical cyclone

Summary:	Enables signed-in Administrators to manually update ACAP's seasonal weather forecast – **No. of Tropical Cyclones data**
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. This requires having selected a PAGASA seasonal weather forecast Excel file like described in **UC-21**.
Main Success Scenario:	1. Fill up the (6) text input with appropriate values under the

	"**Tropical Cyclone Input**" section. Use the No. of Tropical Cyclones tab found in the PAGASA seasonal weather forecast Excel file as reference. 2. Press the UPLOAD button. 3. Proceed like mentioned from **UC-21 Main Success Scenarion #5.**
Alternative Scenario:	The following scenarios will display error messages upon encountering errors uploading the PAGASA seasonal weather forecast Excel File: 1. Errors on Excel file validation a. i.e, incorrect values, mismatching columns, incorrect months, and others 2. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-23: Create new seasonal forecast weather system

Summary:	Enables signed-in Administrators to manually update ACAP's seasonal weather forecast – **Weather Systems that May Affect the Region data**
Priority:	Expected
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the ACAP Settings -> Seasonal tab. 2. Go to the "**Weather Systems that May Affect the Region**" section. 3. Press the ADD button 4. Encode a new weather system. 5. Press the SAVE button. 6. Wait for the update process to finish. An "Upload success" notification should appear after a successful upload. 7. Confirm that the website's seasonal weather forecast - *Weather Systems that May Affect the Region* data is successfully updated in the **ACAP Services** page (**UC-02**).
Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating the weather systems data:

	1. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-24: Delete a seasonal forecast weather system

Summary:	Enables signed-in Administrators to delete items in ACAP's seasonal weather forecast – **Weather Systems that May Affect the Region data**
Priority:	Expected
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the ACAP Settings -> Seasonal tab. 2. Go to the "**Weather Systems that May Affect the Region**" section. 3. Press the [X] button beside (1) or more weather system items to mark them for deletion. 4. Press the CLEAR ALL button to mark ALL items for deletion. 5. Press the SAVE button. 6. Wait for the update process to finish. An "Upload success" notification should appear after a successful upload. 7. Confirm that the website's seasonal weather forecast - *Weather Systems that May Affect the Region* data is successfully updated in the **ACAP Services** page (**UC-02**).
Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating the weather systems data: 1. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-25: Undo unsaved updates to seasonal forecast weather system

Summary:	Enables signed-in Administrators to undo unsaved changes to items in ACAP's seasonal weather forecast – **Weather Systems that May Affect the Region data**
Priority:	Desired
Use Frequency:	Sometimes

Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the ACAP Settings -> Seasonal tab. 2. Go to the **"Weather Systems that May Affect the Region"** section. 3. Follow the *CREATE*, *UPDATE* or *DELETE* processes mentioned in **UC-22**, **UC-23** or **UC-24.** a. Do not press the SAVE button. 4. Press the RESET button to revert to the last items' last SAVED status. 5. Press the SAVE button anytime to save the updated data. 6. Follow thru the success or alternate scenarios from **UC-22**, **UC-23** or **UC-24.**
Alternative Scenario:	
Notes and Questions:	

UC-26: Upload 10-day forecast PAGASA Excel files

Summary:	Enables signed-in Administrators to manually upload 10-Day PAGASA Weather Forecast Excel files (day1 – day10)
Priority:	Expected
Use Frequency:	Rarely
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Download the latest PAGASA 10-day weather forecast Excel files (day1.xlsx – day10.xlsx) from their 10-Day Climate Forecast web page on [link]. 2. Go to the ACAP Settings -> 10-Day tab. 3. Press the SELECT FILES button. Search and select the (10 pcs) 10-Day weather forecast Excel files from step #1. 4. Press the SUBMIT button. 5. Wait for the upload process to finish. An "Upload success" notification should appear after a successful upload. 6. Confirm that the website's 10-day weather forecast data is successfully updated in the **ACAP Services** page –

	10-Day Weather Forecast section (**UC-02**).

Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating the weather systems data:
	
	1. Errors on Excel file validation
	   a. i.e, incorrect values, mismatching columns
	   b. Excel file structure that greatly differs from the Excel file structure known by the parser script.
	2. Network errors accessing the NodeJS REST APIs hosted in Render.

Notes and Questions:	

UC-27: Edit 10-day forecast moon phases

Summary:	Enables signed-in Administrators to update the 10-day weather forecast – **Moon Phases data**
Priority:	Desired
Use Frequency:	Rarely
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/

Main Success Scenario:	1. Go to the **ACAP Settings** -> **10-Day** tab.
	2. Scroll down to the **"Moon Phases Input"** section.
	3. Press the EDIT button.
	4. Update the text content under in input parameters:
	   a. New Moon
	   b. First Quarter
	   c. Full Moon
	   d. Last Quarter
	5. Press the SAVE button.
	6. Wait for the "update" process to finish. A *"Successfully saved changes"* notification should appear after a successful update.
	7. Confirm that the website's 10-day weather forecast – **Moon Phases** data is successfully updated by generating a 10-Day Farm Weather Outlook Advisory Bulletin for preview.

Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating the moon phases data:

	1. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-28: Manual sync PAGASA special weather forecast

Summary:	Enables signed-in Administrators to manually sync PAGASA's **Tropical Cyclone data** to ACAP's special weather forecast database
Priority:	Desired
Use Frequency:	Rarely
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the ACAP Settings -> Tropical Cyclone tab. 2. Scroll down to the **"Current Data Update Summary"** section. 3. Press the SYNC button. 4. Wait for the "sync" process to finish. A *"Successfully synced data"* notification should appear after a successful update.
Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating the tropical wind cyclone data: 2. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-29: Add new wind speed, province and municipalities list group

Summary:	Enables signed-in Administrators to manually **encode tropical cylone** wind signal numbers and cyclone-affected municipalities
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the ACAP Settings -> Tropical Cyclone tab. 2. Scroll down to the **"Wind Speed List Editor"** section.

	3. Press the ADD button. 4. Enter a wind signal number in the "wind signal" text box (signal 1 – 10). 5. Press the EDIT button beside the "wind signal" number. 6. In the "Affected Provinces and Municipalities Form" window that will appear:
	  a. Select a province
	  b. Select (1) one or more municipalities
	  c. Press the OK button to confirm the selected province and municipalities
	  d. Press CANCEL to dismiss the window
	7. Repeat from step #3 - #6 as necessary. 8. Press the SAVE button to save changes. 9. Wait for the "sync" process to finish. A *"Data successfully saved"* notification should appear after a successful update.

Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating the tropical wind cyclone data: 3. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-30: Edit a windspeed, province and municipalities list group

Summary:	Enables signed-in Administrators to **update** the contents of manually encoded **tropical cylone wind** signal numbers and cyclone-affected municipalities
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the ACAP Settings -> Tropical Cyclone tab. 2. Scroll down to the **"Wind Speed List Editor"** section. 3. Update the wind signal number in (1) or more groups of "wind signal" text box (signal 1 – 10). 4. Press the EDIT button beside any "wind signal" group.

	5. In the "Affected Provinces and Municipalities Form" window that will appear:
	   a. Select a province
	   b. Select (1) one or more municipalities to add
	   c. Press the [X] button beside a municipality to remove it from the list
	   d. Press the OK button to confirm the selected province and municipalities
	   e. Press CANCEL to dismiss the window
	6. Repeat from step #3 - #5 as necessary.
	7. Press the SAVE button to save changes.
	8. Wait for the "sync" process to finish. A *"Data successfully saved"* notification should appear after a successful update.

Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating the tropical wind cyclone data: 4. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-31: Delete a windspeed, province and municipalities list group

Summary:	Enables signed-in Administrators to **delete** the contents of manually encoded **tropical cyclone wind** signal numbers and cyclone-affected municipalities
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the ACAP Settings -> Tropical Cyclone tab. 2. Scroll down to the **"Wind Speed List Editor"** section. 3. Press the *"trash can icon"* at the leftmost side of a province-municipality group under a "wind signal" text box (signal 1 – 10) to delete the contents of the province and selected municipalities under it. 4. Press the [X] button beside the EDIT button to delete a "wind signal" list

	group including all selected provinces and municipalities under it. 5. Press the SAVE button to save changes. 6. Wait for the "sync" process to finish. A *"Data successfully saved"* notification should appear after a successful update.
Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating the tropical wind cyclone data: 1. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-32: Generate seasonal crop recommendations website preview

Summary:	Enables signed-in Administrators to generate complete, full **Seasonal Crop Recommendations** for text preview in the web browser
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/

Main Success Scenario:	1. Go to the Crop Recommendations tab.
	2. Press the CREATE BULLETIN button.
	3. Select *"Regional Seasonal Climate Outlook and Advisory"*
	4. Select input parameter for:
	   a. Province
	   b. Municipality
	   c. crop type
	   d. **month**.
	5. Press the GENERATE button
	6. View the resulting crop recommendations text content (which includes applicable crop stages and activities)
	7. Press the **SMS FORM tab** above the Tagalog/English button to view the corresponding SMS text content.
	8. Press the **PDF FORM tab** above the Tagalog/English button to view the generated text content.

Alternative Scenario:	
Notes and Questions:	

UC-33: Generate 10-day crop recommendations website preview

Summary:	Enables signed-in Administrators to generate complete, full **10-Day Weather Outlook Crop Recommendations** for text preview in the web browser
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/

Main Success Scenario:	1. Go to the Crop Recommendations tab.
	2. Press the CREATE BULLETIN button.
	3. Select *"10-Day Farm Weather Outlook and Advisory"*
	4. Select input parameter for:
	   a. Province
	   b. Municipality
	5. Press the GENERATE button
	6. View the resulting crop recommendations text content (which includes applicable crop stages and activities)
	7. Press the **SMS FORM tab** above the Tagalog/English button to view the corresponding SMS text content.
	8. Press the **PDF FORM tab** above the Tagalog/English button to view the generated text content.

Alternative Scenario:	
Notes and Questions:	

UC-34: Generate special weather crop recommendations website preview

Summary:	Enables signed-in Administrators to generate complete, full **Special Weather Crop Recommendations** for text preview in the web browser
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the Crop Recommendations tab. 2. Press the CREATE BULLETIN button. 3. Select *"Special Weather Advisory"* 4. Select input parameter for:

	a. Province b. Municipality 5. Press the GENERATE button 6. View the resulting crop recommendations text content (which includes applicable crop stages and activities) 7. Press the **SMS FORM tab** above the Tagalog/English button to view the corresponding SMS text content. 8. Press the **PDF FORM tab** above the Tagalog/English button to view the generated text content.
Alternative Scenario:	
Notes and Questions:	

UC-35: View the Tagalog or English translation of generated recommendations preview

Summary:	Enables signed-in Administrators to view the Tagalog/English translation of generated complete, full Crop Recommendations (10-day, seasonal and special) in the web browser
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-32, UC-33, UC-34 –** A generated Crop Recommendation (10-day, seasonal and special recommendations) for website preview is visible in the web browser
Main Success Scenario:	1. Toggle the Tagalog / English button that will appear in the recommendation page's upper right part. 2. View the resulting text translations
Alternative Scenario:	
Notes and Questions:	

UC-36: Preview PDF bulletin of generated crop recommendations (for 10-day, seasonal and special outlook forecasts)

Summary:	Enables signed-in Administrators to preview the generated complete, full Crop Recommendations in a PDF file preview
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator

Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-32 –** A generated Crop Recommendation (10-day, seasonal and special recommendations) for preview is visible in the web browser
Main Success Scenario:	1. Press the PREVIEW button on the lower button group. 2. View the PDF file in the window that will appear.
Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating generating and fetching the PDF file: 1. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-37: Create seasonal crop recommendations report

Summary:	Enables signed-in Administrators to create a **Seasonal Crop Recommendations Report**, and upload the generated PDF file as a bulletin for public download in the Bulletins page.
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-32 –** A generated *Seasonal Crop Recommendation* for preview is visible in the web browser

Main Success Scenario:	1. Press the SAVE button on the lower button group.
	2. Wait for the report to finish saving.
	    a. A message *"Success! Bulletin report created"* will display in the Save report window.
	    b. Press the OK button to view the saved Crop Recommendation report log.
	3. **UC-06** -- View the uploaded bulletin PDF in the seasonal weather subsection in the Bulletins download page on https://amia-cis.github.io/bulletins/

Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating generating the PDF file and creating a report: 1. Network errors accessing the NodeJS REST APIs hosted in Render.

Notes and Questions:	

UC-38: Create 10-day crop recommendations report

Summary:	Enables signed-in Administrators to create a **10-Day Weather Outlook Crop Recommendations Report**, and upload the generated PDF file as a bulletin for public download in the Bulletins page.
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-33 –** A generated *10-Day Weather Outlook Recommendation* for preview is visible in the web browser

Main Success Scenario:	1. Press the SAVE button on the lower button group.
	2. Wait for the report to finish saving.
	    a. A message *"Success! Bulletin report created"* will display in the Save report window.
	    b. Press the OK button to view the saved Crop Recommendation report log.
	3. **UC-06** -- View the uploaded bulletin PDF in the 10-day weather subsection in the Bulletins download page on https://amia-cis.github.io/bulletins/

Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating generating the PDF file and creating a report: 1. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-39: Create special weather crop recommendations report

Summary:	Enables signed-in Administrators to create a **Special Weather Crop Recommendations Report**, and upload the generated PDF file as a bulletin for public download in the Bulletins page.
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator

Prerequisite/s:	1. **UC-34** – A generated *Special Weather Recommendation* for preview is visible in the web browser
Main Success Scenario:	1. Press the SAVE button on the lower button group. 2. Wait for the report to finish saving. a. A message *"Success! Bulletin report created"* will display in the Save report window. b. Press the OK button to view the saved Crop Recommendation report log. 3. **UC-06** -- View the uploaded bulletin PDF in the special weather subsection in the Bulletins download page on https://amia-cis.github.io/bulletins/
Alternative Scenario:	The following scenarios will display error messages upon encountering errors updating generating the PDF file and creating a report: 2. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-40: View crop recommendations reports list

Summary:	Enables signed-in Administrators to view their list of saved Crop Recommendations (10-day, seasonal and special)
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the Crop Recommendations tab. 2. Select a bulletin type to filter the crop recommendations list from the "Bulletin Type" drop down menu: a. Seasonal Crop Recommendations b. 10-Day Crop Recommendations c. Special Weather Recommendations 3. View the list of filtered Crop Recommendations Reports
Alternative Scenario:	The following scenarios will display error messages upon encountering errors upon fetching a report: 1. Network errors accessing the NodeJS REST APIs hosted in Render.

Notes and Questions:	

UC-41: View the PDF form of a crop recommendation report

Summary:	Enables signed-in Administrators to view the PDF text content of one of their created/saved Crop Recommendations (10-day, seasonal or special)
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-40** – The admin is currently viewing his crop recommendations list.
Main Success Scenario:	1. Click any one of the crop recommendations from the list. 2. View the Crop recommendation report. Its **PDF FORM** is shown by default. 3. Press the PDF FORM button, to switch viewing the PDF FORM content.
Alternative Scenario:	
Notes and Questions:	

UC-42: View the SMS form of a crop recommendation report

Summary:	Enables signed-in Administrators to view the SMS text content of one of their created/saved Crop Recommendations (10-day, seasonal or special)
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-41** – The admin is currently viewing a crop recommendation report in its PDF form.
Main Success Scenario:	1. Press the **SMS FORM** button, to switch viewing the report's SMS FORM content.
Alternative Scenario:	
Notes and Questions:	

UC-43: Delete a crop recommendation report

Summary:	Enables signed-in Administrators to **delete** one their created/saved Crop Recommendations (10-day, seasonal or special)
Priority:	Expected
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-41 / UC-42 –** The admin is currently viewing a crop recommendation report in its PDF form or SMS form.
Main Success Scenario:	1. Press the **DELETE** button on the crop report's upper button control group. 2. Press the DELETE button in the resulting "Delete Report" confirmation dialog window. 3. Wait for the deletion process to finish. a. A success message *"Report deleted"* will appear after a successful deletion. 4. Press the OK button to navigate back to the Crop Recommendations list.
Alternative Scenario:	The following scenarios will display error messages upon encountering errors deleting a report: 1. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-44: Add contact

Summary:	Enables signed-in Administrators to create a new Contact in their Phonebook
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the **SMS Management** -> **Phonebook** tab. 2. Press the ADD CONTACT button. a. An "Add Contact" window for adding a New Contact will appear. 3. Enter a contact name inside the "Name" input.

	4. Enter a cell number inside the "Cell Number" input. 5. Press the CANCEL button to dismiss the "Add Contact" window without saving the new contact. 6. Press the SAVE button to save the new contact to Phonebook. 7. Wait for the add contact process to finish. a. A success message *"Successfully added a New Contact!"* will appear after a successfully saving the new contact.

Alternative Scenario:	1. Entering a cell number inside the "Cell Number" input in the **Main Success Scenario #4** will display an error message when:
	    a. Entering an invalid cell number
	    b. Entering an existing cell number
	 2. The add contact process in the **Main Success Scenario #7** may display:
	    a. Network errors accessing the NodeJS REST APIs hosted in Render.

Notes and Questions:	

UC-45: View contact details

Summary:	Enables signed-in Administrators to view a Contact's information from their Phonebook
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the **SMS Management** -> **Phonebook** tab. 2. Click a Contact name under the contact list. a. The selected contact details should appear in the *"Contact Details"* window. 3. Press the CLOSE button to dismiss the "Contact Details" window.
Alternative Scenario:	
Notes and Questions:	

UC-46: Edit contact details

Summary:	Enables signed-in Administrators to update a Contact's information in their Phonebook
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-45 –** An administrator is currently viewing a selected contact's details in the "Contact Details" window.
Main Success Scenario:	1. Press the EDIT button inside the "Contact Details" window. 2. Update the contact's name inside the "Name" input. 3. Update the contact's cell number inside the "Cell Number" input. 4. Press the CANCEL button to dismiss the "Contact Details" window without updating the new contact. 5. Press the SAVE button to update contact details in Phonebook. 6. Wait for the update process to finish. 7. A success message *"Successfully edit contact: <insert_contact_naem>!"* will appear after a successfully updating the contact details.

Alternative Scenario:	1. Entering a cell number inside the "Cell Number" input in the **Main Success Scenario #3** will display an error message when:
	   a. Entering an invalid cell number
	   b. Entering an existing cell number
	 2. The update process in **Main Success Scenario #6** may encounter errors and display:
	   a. Network errors accessing the NodeJS REST APIs hosted in Render.

Notes and Questions:	

UC-47: Delete contact

Summary:	Enables signed-in Administrators to delete a Contact from their Phonebook
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator

Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-45 –** An administrator is currently viewing a selected contact's details in the "Contact Details" window.
Main Success Scenario:	1. Press the DELETE button inside the "Contact Details" window. 2. Wait for the contact deletion process to finish. a. A success message *"Successfully deleted contact: <insert_contact_name>"* will appear after a successful deletion. 3. The deleted contact will be removed from the Contact list.
Alternative Scenario:	1. Pressing the DELETE button in the **Main Success Scenario #1** may display: a. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-48: Search for contact

Summary:	Enables signed-in Administrators to search for a Contact from their Phonebook by contact name
Priority:	Desired
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/
Main Success Scenario:	1. Go to the **SMS Management** -> **Phonebook** tab. 2. Enter a contact name in the SEARCH bar. 3. The contacts list will be filtered with Contacts matching the first letters of a contact name input. 4. Select a name from the filtered contact list following to view its contact details.
Alternative Scenario:	
Notes and Questions:	

UC-49: View list of SMS recommendations

Summary:	Enables signed-in Administrators to view their **list of SMS recommendations** for saved Crop Recommendations (10-day, seasonal or special)
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/

Main Success Scenario:	1. Go to the **SMS Management** -> **SMS** tab.
	 2. Select a bulletin type to filter the SMS recommendations list from the "Bulletin Type" drop down menu:
	     a. Seasonal Crop Recommendations
	     b. 10-Day Crop Recommendations
	     c. Special Weather Recommendations
	 3. View the resulting list of filtered SMS recommendations, arranged in descending order by the *"date_created"* field (**Date Created** column) of their associated Crop Recommendation Report.

Alternative Scenario:	The following scenarios will display error messages upon encountering errors upon fetching a report, containing the SMS recommendations. 1. Network errors accessing the NodeJS APIs hosted in Render.
Notes and Questions:	

UC-50: View Logs of an SMS recommendation

Summary:	Enables signed-in Administrators to view **SMS-sending logs** of SMS recommendations for saved Crop Recommendations (10-day, seasonal or special)
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-49 –** The Administrator is viewing a Seasonal, 10-Day or Special weather SMS recommendations list

Main Success Scenario:	1. Press the VIEW LOGS button under the "Logs" column, next to the SEND button of a selected SMS recommendation row. 2. View the SMS sending logs of the selected SMS recommendation in the resulting ***"SMS Recommendation Logs"*** window.
Alternative Scenario:	1. Unsent SMS recommendations will display an "UNSENT" text instead of a VIEW LOGS button in the **Main Success Scenario #1.**
Notes and Questions:	

UC-51: Send an SMS Recommendation to a Contact

Summary:	Enables signed-in Administrators to **send** an SMS recommendation from a saved Crop Recommendation report to a **single Contact**
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-49 –** The Administrator is viewing a Seasonal, 10-Day or Special weather SMS recommendations list

Main Success Scenario:	1. Press the SEND button under the "Action" column, next to the VIEW LOGS button or "UNSENT" text of a selected SMS recommendation row.
	 2. Pressing the SEND button should take the Administrator to the SMS viewing page containing the:
	     a. **"Send Text-Form Crop Recommendation"** text content of a saved Crop Recommendation report.
	     b. **"List of Contacts"** window, a signed-in Administrator's Phonebook Contacts list
	 3. Select (1) one Contact from the **"List of Contacts"** window.
	 4. Press the SEND button on the upper right corner to send the *"Text-Form Crop Recommendation"* to the selected contact via SMS.
	 5. Wait for the SMS sending process to finish.
	     a. A success message *"Crop Recommendation sent"* will appear in a "Send Crop Recommendation"

	window after the NodeJS server successfully receives a non-error response from the Semaphore SMS API. b. Press the OK button to close the window.
Alternative Scenario:	The SMS sending process in **Main Success Scenario #5** may encounter errors and display: 1. Network errors accessing the NodeJS REST APIs hosted in Render.

Notes and Questions:	1. Seeing the success message *"Crop Recommendation sent"* in the **Main Success Scenario #5** does not always indicate that the recipient has already received the SMS text.
	    a. It only indicates that the SMS text is on its way (in transport) to a recipient/s cell number, care of the Semaphore SMS API.
	    b. Recipients may or may not receive the SMS text as soon as possible, which may be caused by Semaphore API's varying network or cellular traffic or other underlying Semaphore infrastructure issues when sending the SMS text.
	    c. Recipient/s may receive the SMS text right after seeing the success message, or after a few minutes.
	    d. We observed receiving SMS messages within 5 seconds minimum to ~30 minutes maximum.

UC-52: Send an SMS Recommendation to Multiple Contacts

Summary:	Enables signed-in Administrators to **send** an SMS recommendation text from a saved Crop Recommendation report to **multiple Contacts**
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Administrator
Stakeholder/s:	Administrator
Prerequisite/s:	1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-51 –** The Administrator is viewing an SMS recommendation **"Send Text-Form Crop Recommendation"** text content.

Main Success Scenario:	1. Follow the operation steps in **UC-51.** 2. Following **_UC-51 Main Success Scenario #3_**, select instead (2) two or more Contacts from the **"List of Contacts"** window. a. You may use the SEARCH bar to search for specific Contacts. 3. Proceed with **UC-51 Main Success Scenarios.**
Alternative Scenario:	*(Same with **UC-51**)*

Notes and Questions:	1. Seeing the success message *"Crop Recommendation sent"* in the **Main Success Scenario #5** does not always indicate that the recipients have already received the SMS text.
	    a. This note shares similar observations with **UC-51.**
	    b. We observed receiving SMS up to 10-30 minutes (to hours) happening more frequently when sending an SMS message to multiple (2 – 5) recipients, unlike sending it to only (1) one recipient.

UC-53: View Profile Information

Summary:	Enables signed-in Administrators or Super Administrators to view their ACAP user profile
Priority:	Desired
Use Frequency:	Sometimes
Direct Actor/s:	Administrator, Super Administrator
Stakeholder/s:	Administrator, Super Administrator
Prerequisite/s:	Either one of the following: 1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-20 -** Successful login to a Super Administrator account on https://amia-cis.github.io/superadmin/login/

Main Success Scenario:	1. Go to the **Profile** tab.
	2. View your ACAP user profile details:
	    a. UID – Unique user ID
	    b. Account Level – Admin/Super Admin
	    c. Email – Email assigned by a Super administrator, which serves as your username
	    d. Display Name – User name assigned by a Super Administrator
	    e. Password – (hidden)

Alternative Scenario:	
Notes and Questions:	

UC-54: Update account password

Summary:	Enables signed-in Administrators or Super Administrators to update their ACAP account password
Priority:	Essential
Use Frequency:	Rarely
Direct Actor/s:	Administrator, Super Administrator
Stakeholder/s:	Administrator, Super Administrator
Prerequisite/s:	Either one of the following: 1. **UC-19 -** Successful login to an Administrator account on https://amia-cis.github.io/admin/login/ 2. **UC-20 -** Successful login to a Super Administrator account on https://amia-cis.github.io/superadmin/login/ And: 1. **UC-53** – Signed-in ACAP Administrator or Super Administrator is viewing their User profile information

Main Success Scenario:	1. Go to the **Profile** tab.
	2. Enter a new password inside the "Enter a new password" text prompt.
	3. Press the UPDATE PASSWORD button.
	4. A "Save changes" window prompt will appear.
	   a. Press the OK button in the "Save changes" to save the new password.
	   b. Press the CANCEL button to dismiss the window.
	5. Wait for the password update process to finish, after pressing the OK button in step **#4.**
	   a. A success message *"Password updated. You will be signed-out. Please sign-in using your new password."* will appear after a successful update process.
	   b. Press the OK button to sign-out.
	6. Re-login to your user account using the updated password.

Alternative Scenario:	1. The update password process in **Main Success Scenario #5** may encounter errors and display: a. Network errors accessing the NodeJS REST APIs hosted in Render.

Notes and Questions:	

UC-55: View users list

Summary:	Enables signed-in Super Administrators to view the list of all ACAP user accounts
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Super Administrator
Stakeholder/s:	Super Administrator
Prerequisite/s:	1. **UC-20 -** Successful login to a Super Administrator account on https://amia-cis.github.io/superadmin/login/
Main Success Scenario:	1. Go to the **Users** tab. 2. View the list of all ACAP Administrator users.
Alternative Scenario:	1. Fetching Administrator user accounts data in the **Main Success Scenario #2** may encounter errors and display: a. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-56: Create a new user

Summary:	Enables signed-in Super Administrators to create a new ACAP Administrator or Super Administrator user account
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Super Administrator
Stakeholder/s:	Super Administrator
Prerequisite/s:	1. **UC-20 -** Successful login to a Super Administrator account on https://amia-cis.github.io/superadmin/login/

Main Success Scenario:	1. Go to the **Users** tab, following **UC-55.**
	2. Press the CREATE USER button.
	3. Fill in the required text fields in the "Create New User" window that will appear:
	   a. Email
	   b. Display name
	   c. Password
	   d. Account type – Select "Admin"
	   e. Account disabled – inactive (by default)
	   f. Email verified – active (by default)
	4. Press the CANCEL button to dismiss the "Create New User" window without creating a new user account.

	5. Press the SAVE button to Create a new user account.
	   a. Wait for the create new account process to finish, after pressing the SAVE button.
	   b. A success message *"User successfully <insert_email_here> created!"* will appear after a successfully creating a new user account.
	   c. The newly created account will be visible in the Users list.

Alternative Scenario:	1. Creating a new account in the **Main Success Scenario #5** may encounter errors and display:
	   a. Network errors accessing the NodeJS REST APIs hosted in Render.
	2. Editing the details of the root Super Administrator account (superadmin@gmail.com) will yield the error message:
	   a. *"The resource you are trying to access is protected."*

Notes and Questions:	1. Super Administrators can also create other "Super Administrator" type user accounts. 2. Altho only Super Administrator users can manage ACAP user (Administrator/Super Administrator) accounts, Super Administrators are not allowed to edit the root Super Administrator account (superadmin@gmail.com)

UC-57: View user details

Summary:	Enables signed-in Super Administrators to view the user profile details of an ACAP user account
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Super Administrator
Stakeholder/s:	Super Administrator
Prerequisite/s:	1. **UC-20 -** Successful login to a Super Administrator account on https://amia-cis.github.io/superadmin/login/ 2. **UC-55** – The Super Administrator is viewing the users list
Main Success Scenario:	1. Click a table row corresponding to the summary details of an ACAP user. 2. View the selected user's details in the **_"User Information"_** window that will appear.

Alternative Scenario:	
Notes and Questions:	

UC-58: Update user information

Summary:	Enables signed-in Super Administrators to update the details of an ACAP user account
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Super Administrator
Stakeholder/s:	Super Administrator
Prerequisite/s:	1. **UC-20 -** Successful login to a Super Administrator account on https://amia-cis.github.io/superadmin/login/ 2. **UC-57** – The Super Administrator is viewing the details of an ACAP user account in the **_"User Information"_** window.

Main Success Scenario:	1. Press the EDIT button in the **_"User Information"_** window.
	2. Update user details in the resulting "Update User Information" window.
	   a. Email
	   b. Display name
	   c. Password (optional)
	   d. Account type
	   e. Account disabled
	   f. Email verified
	3. Press the CANCEL button to dismiss the "Update User Information" window without creating a new user account.
	4. Press the UPDATE button to update the user account.
	   a. Wait for the account update process to finish, after pressing the UPDATE button.
	   b. A success message *"Successfully updated <insert_email_here>'s details!"* will appear after a successfully updating the user account.

Alternative Scenario:	1. The update password process in **Main Success Scenario #4** may encounter errors and display: a. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-59: Delete a user

Summary:	Enables signed-in Super Administrators to delete an ACAP user account
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	Super Administrator
Stakeholder/s:	Super Administrator
Prerequisite/s:	1. **UC-20 -** Successful login to a Super Administrator account on https://amia-cis.github.io/superadmin/login/ 2. **UC-57** – The Super Administrator is viewing the details of an ACAP user account in the **_"User Information"_** window.
Main Success Scenario:	1. Press the DELETE button in the **_"User Information"_** window. 2. Wait for the account deletion process to finish. a. A success message _"Successfully deleted user <insert_email_here>!"_ will appear after successfully deleting the user account.
Alternative Scenario:	1. Deleting a user account in the **Main Success Scenario #2** may encounter errors and display: a. Network errors accessing the NodeJS REST APIs hosted in Render.
Notes and Questions:	

UC-60: Set Firebase Rules

Summary:	Enables System Administrators to set-up and configure the Firebase Rules for the Firestore Database and Cloud Storage
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	System Administrator
Stakeholder/s:	System Administrator

Prerequisite/s:	1. Firebase project for ACAP using the Spark Plan (by default)
	 2. Enabled the following Firebase components in the Firebase project using the Firebase web console on https://console.firebase.google.com/:
	    a. Firestore
	    b. Storage
	    c. Authentication – Email/Password

Main Success Scenario:	1. Go to the Firebase project's **Firestore Database** -> **Rules** tab using the Firebase web console.

	a. Copy and paste ACAP's FIrestore rules from the /client/firestore.rules file to the text area input in the Firestore Rules tab.
	    b. Press the PUBLISH button.
	 2. Go to the Firebase project's **Storage** -> **Rules** tab using the Firebase web console.
	    a. Copy and paste ACAP's Firebase Storage rules from the /client/storage.rules file to the text area input in the Storage Rules tab.
	    b. Press the PUBLISH button.

Alternative Scenario:	
Notes and Questions:	

UC-61: Seed database with default data

Summary:	Enables System Administrators to initialize the Firestore database with default data
Priority:	Essential
Use Frequency:	Always
Direct Actor/s:	System Administrator
Stakeholder/s:	System Administrator
Prerequisite/s:	1. **UC-60** – Properly configure Firebase Rules on a Firebase project 2. Firebase service account JSON file a. The service account JSON file is generated from a Firebase project's Project Settings page, on **Project Settings** -> **Service accounts** -> **Generate new private key**
Main Success Scenario:	1. Follow the ACAP server environment variables set-up instructions in the /server/README.md file. 2. Navigate to the /server directory using the command line. 3. Run the NPM script: **_"npm run seed:all"_** a. Running this script will create the Firestore collections and documents containing default (blank) data for ACAP's initial use.
Alternative Scenario:	The NPM script may exit with Firebase-related error messages in the command line if the Firebase project or service account JSON file has an incorrect set-up.
Notes and Questions:	

UC-62: Upload crop recommendations Excel file data to database

Summary:	Enables System Administrators to upload an Excel file containing crop recommendations to the Firestore database
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	System Administrator
Stakeholder/s:	System Administrator
Prerequisite/s:	1. **UC-60** – Properly configure Firebase Rules on a Firebase project 2. Firebase service account JSON file a. The service account JSON file is generated from a Firebase project's Project Settings page, on **Project Settings** -> **Service accounts** -> **Generate new private key**
Main Success Scenario:	1. Follow the ACAP server server environment variables set-up instructions in the /server/README.md file. 2. Copy the final, official ACAP-Bicol crop recommendations Excel file in /server/src/scripts/data/ recommendations_html_acap_bicol.xlsx to the /server/src/scripts/uploaders/recommendations directory. 3. Navigate to the /server directory using the command line. 4. Run the NPM script: *"npm run upload:recommendations –locafilename=recommendations_html_acap_bicol.xlsx"*
Alternative Scenario:	The NPM script may exit with Firebase-related error messages in the command line if the Firebase project or service account JSON file has an incorrect set-up.
Notes and Questions:	

UC-63: Upload cropping calendar CSV file data to database

Summary:	Enables System Administrators to upload a CSV file containing cropping calendar to the Firestore database
Priority:	Essential
Use Frequency:	Sometimes
Direct Actor/s:	System Administrator
Stakeholder/s:	System Administrator

Prerequisite /s:	1. **UC-60** – Properly configure Firebase Rules on a Firebase project 2. Firebase service account JSON file a. The service account JSON file is generated from a Firebase project's Project Settings page, on **Project Settings** -> **Service accounts** -> **Generate new private key**
Main Success Scenario:	1. Follow the ACAP server environment variables set-up instructions in the /server/README.md file. 2. Copy the final, official ACAP-Bicol cropping calendar CSV file in /server/src/scripts/data/ cropping_calendar_v2.csv to the /server/src/scripts/uploaders/cropping_calendar directory. 3. Navigate to the /server directory using the command line. 4. Run the NPM script: *"npm run upload:calendar –locafilename= cropping_calendar_v2.csv.csv"*
Alternative Scenario:	The NPM script may exit with Firebase-related error messages in the command line if the Firebase project or service account JSON file has an incorrect set-up.
Notes and Questions:	

UC-64: Cron job – auto sync PAGASA 10-day Excel weather forecast files to database

Summary:	Enables System Administrators and GitHub Actions (scheduled workflow) to sync the PAGASA 10-day weather forecast (Excel files) data to ACAP's database
Priority:	Essential
Use Frequency:	Always (Daily)
Direct Actor/s:	System Administrator, system
Stakeholder/s:	System Administrator
Prerequisite/s:	1. **UC-60** – Properly configure Firebase Rules on a Firebase project 2. Properly configured **GitHub Actions scheduled workflow** and **GitHub Secrets** in the project's GitHub repository running the *"scheduled-10day.yml"* workflow definitions.
Main Success Scenario:	1. The NPM script *"npm run cron:tenday"* runs once every day between 9:00 AM – 12:00 PM as a GitHub Actions scheduled workflow. 2. This NPM script *fetches*, *parses*, and *validates* PAGASA's 10-day weather forecast Excel files (from day1.xlsx to day10.xlsx, [link]) to ACAP's Firestore

	database. It *uploads* the extracted 10-day weather forecast data, overwriting existing data if there are no validation errors.
Alternative Scenario:	The NPM script may exit with: 1. Firebase-related error messages in the command line if the Firebase project or service account JSON file has an incorrect set-up. 2. Data validation and parsing errors in (1) or more Excel files.
Notes and Questions:	While we are running the Cron job daily at an educated guess (9:00 AM – 12:00 PM Philippine local time) and we can advise RFOs to manually sync PAGASA's 10-Day weather forecast data (Excel files) from the Admin pages before they start creating 10-day weather outlook bulletin PDFs, knowing when PAGASA exactly (date and time) updates their 10-Day weather forecast Excel files will result to more timely, up to date and 1:1 ACAP to PAGASA weather forecast data syncing.

UC-65: Cron job – auto sync PAGASA El Nino / La Nina text content to database

Summary:	Enables System Administrators and GitHub Actions (scheduled workflow) to sync the PAGASA El Nino / La Nina text content from the PAGASA website to ACAP's database
Priority:	Essential
Use Frequency:	Often
Direct Actor/s:	System Administrator, system
Stakeholder/s:	System Administrator
Prerequisite/s:	1. **UC-60** – Properly configure Firebase Rules on a Firebase project 2. Properly configured **GitHub Actions scheduled workflow** and **GitHub Secrets** in the project's GitHub repository running the *"scheduled-scraping.yml"* workflow definitions.
Main Success Scenario:	1. The NPM script *"npm run cron:typhoon"* runs once every Sunday between 3:05 AM – 6:00 AM Philippine local time as a GitHub Actions scheduled workflow. 2. This NPM script web scrapes relevant El Nino / La Nina text content from the PAGASA El Niño / La Niña Monitoring web page [link] and uploads it to ACAP's Firestore database.
Alternative Scenario:	The NPM script may exit with:

	1. Firebase-related error messages in the command line if the Firebase project or service account JSON file has an incorrect set-up. 2. Command line errors from parsing drastic website formatting structure change of the latest web scraped PAGASA El Niño / La Niña Monitoring web page, apart from the initial web page version, which the script is familiar with.
Notes and Questions:	While we are running the Cron job daily at an educated guess (every Sunday 3:05 AM – 6:05 AM Philippine local time), knowing when PAGASA exactly (date and time) updates their El Niño / La Niña Monitoring web page will result to timely, up to date and 1:1 ACAP to PAGASA weather forecast data syncing.

UC-66: Cron job – auto sync PAGASA Tropcical Cyclone text content (special weather forecast) to database

Summary:	Enables System Administrators and GitHub Actions (scheduled workflow) to regularly sync the PAGASA Tropical Cyclone Bulletin web page text content (special weather forecast) to ACAP's database
Priority:	Essential
Use Frequency:	Always
Direct Actor/s:	System Administrator, system
Stakeholder/s:	System Administrator
Prerequisite/s:	1. **UC-60** – Properly configure Firebase Rules on a Firebase project 2. Properly configured **GitHub Actions scheduled workflow** and **GitHub Secrets** in the project's GitHub repository running the *"scheduled-cyclone.yml"* workflow definitions.
Main Success Scenario:	1. The NPM script *"npm run cron:cyclone"* runs every 2 hours Philippine local time as a GitHub Actions scheduled workflow. 2. This NPM script web scrapes relevant tropical cyclone text content from the PAGASA Tropical Cyclone Bulletin web page [link] and uploads it to ACAP's Firestore database as the special weather forecast.
Alternative Scenario:	The NPM script may exit with: 1. Firebase-related error messages in the command line if the Firebase project or service account JSON file has an incorrect set-up.

	2. Command line errors from parsing drastic website formatting structure change of the latest web scraped PAGASA Tropical Cyclone Bulletin web page, apart from the initial web page version, which the script is familiar with. The NPM script will upload an empty data set if the PAGASA Tropical Cyclone Bulletin has no cyclone data (No Active Tropical Cyclone within the Philippine Area of Responsibility).
Notes and Questions:	While we are running the Cron job every (2) two hours, running it in shorter time intervals (i.e., every 5 minutes) will result in timely, up to date and 1:1 ACAP to PAGASA weather forecast data syncing since PAGASA may update their cyclone forecast at shorter time intervals for typhoons with stronger wind signals.