

MNSTDEV QUADTHINK – FULLY DRESSED USE CASE DIAGRAM (CitiSense)

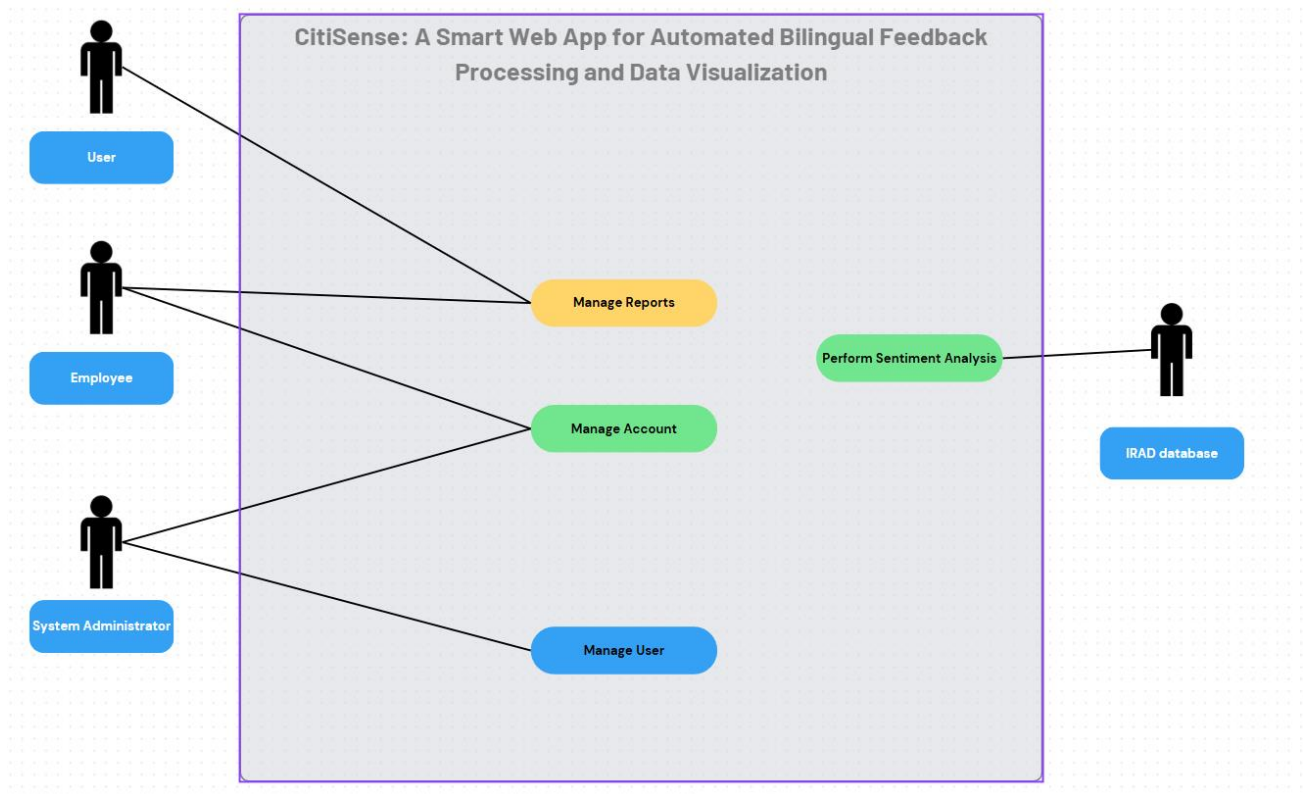
Lorenzo Bernal

Gab Cabangcala

Luis Lazaro

Mark Marabi

Use Case Diagram:



Product Requirements

ID	Requirement
PR-01	Users should register an account to be able to login to the CitiSense web application
PR-02	Users should login to access the CitiSense web application
PR-03	Users should be able to view and/or change their profile credentials after logging in the CitiSense web application.
PR-04	All users should be able to view the dashboard and generate a report from there.
PR-05	Only employees can view, make changes, and export the data table
PR-06	The CitiSense system will automatically process the raw feedback data from the “IRAD database” and output sentiment-labeled feedback, which will be stored in the database.
PR-07	The CitiSense system shall provide an admin panel where system administrators can securely log in.
PR-08	Only the System Admin can assign roles to the users of the CitiSense admin panel
PR-09	Only the System Admin can update registered user credentials inside the CitiSense admin panel
PR-10	The system shall allow users and employees to manage their accounts, including registration, login, and profile editing.
PR-11	The system shall only allow the user actor to view the dashboard, and employees to both view the dashboard and manage the data table.
PR-12	The system shall allow administrators to manage registered users within the admin panel, including editing user details and assigning roles.

Use Case Name: Register

<i>Use case ID:</i>	UC-01
<i>Author:</i>	Luis Lorenzo Lazaro, Lorenzo Emil Bernal
<i>Purpose:</i>	Users should be able to register an account to the CitiSense system.
<i>Requirement Traceability:</i>	PR-01
<i>Priority</i>	High
<i>Preconditions:</i>	– User opens the CitiSense web app
<i>Postconditions:</i>	– User inputs valid credentials in registration – User/s information is saved in the system – User/s should be able to login successfully
<i>Actors:</i>	Employee
<i>Extends:</i>	

<p><i>Flow of Actions:</i></p>	<p>Basic Flow</p> <p>1. User Registration</p> <ul style="list-style-type: none"> – Open the CitiSense web app – The user goes to “Register” page – Register account using valid credentials (Email, Username, and Password) – Click “Submit” – The user will now be redirected to the Login Page of the app <p>Alternative Flow</p> <p>1a. Missing field</p> <ul style="list-style-type: none"> – <i>User navigates to the registration page</i> – User leaves a required field (e.g., email or password) blank – User clicks the Register / Submit button System validates the input fields – System detects missing required fields – System displays an error message (e.g., “Please fill out this field”) next to the blank field(s) – Registration is not submitted, and the user remains on the registration page <p>2a. Existing Credentials</p> <ul style="list-style-type: none"> – User fills out all required fields using an email or username already in the system – User clicks the Register / Submit button – System validates the input fields – System checks the database and finds the email and/or is already taken – System displays an error message (e.g., “Email already registered”) – Registration is not submitted, and the user remains on the registration page
--------------------------------	---

Use Case Name: Login

<i>Use case ID:</i>	UC-02
<i>Author:</i>	Luis Lorenzo Lazaro, Lorenzo Emil Bernal
<i>Purpose:</i>	All users should have the ability to login to the CitiSense system.
<i>Requirement Traceability:</i>	PR-02

<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> – User opens the CitiSense web app – User is registered
<i>Postconditions:</i>	<ul style="list-style-type: none"> – User should be able to login successfully with valid credentials. – User can access the home page of the CitiSense web application
<i>Actors:</i>	Employee, System Admin
<i>Extends:</i>	
<i>Flow of Actions:</i>	<p>Basic Flow</p> <p>1. Login</p> <ul style="list-style-type: none"> – Open the CitiSense web app – User goes to the Login page – Input proper username and password – Click “Login” – The user will be redirected to the homepage of the app <p>Alternative Flow</p> <p>1a. Unregistered user</p> <ul style="list-style-type: none"> – Click Login to the web app – User inputs invalid credentials – The system validates and matches the credentials entered – The user is prompted with the message “User is not registered” – The user stays in the Login page <p>1b. Invalid Credentials for Login</p> <ul style="list-style-type: none"> – Click Login to the web app – User inputs invalid credentials – The system validates and matches the credentials entered – The user is prompted with the message “The username or password you entered is incorrect.” – The user stays on the Login page

Use Case Name: Edit user profile

<i>Use case ID:</i>	UC-03
<i>Author:</i>	Luis Lorenzo Lazaro
<i>Purpose:</i>	All registered users should be able to edit their own information through profile page
<i>Requirement Traceability:</i>	PR-03
<i>Priority</i>	High

<i>Preconditions:</i>	<ul style="list-style-type: none"> – User is logged in – User has an existing profile in the system
<i>Postconditions:</i>	<ul style="list-style-type: none"> – The user's profile information is updated in the system/database – The updated information is reflected when the profile is viewed – A confirmation message has been displayed to the user
<i>Actors:</i>	Employee, System Admin
<i>Extends:</i>	
<i>Flow of Actions:</i>	<p>Basic Flow</p> <p>1. Edit User Profile</p> <ul style="list-style-type: none"> – The user navigates to their profile page – The system displays the current profile information – The user clicks the “Edit Profile” button – The system displays editable fields (e.g., name, email, password) – The user updates the desired profile information – The user clicks the “Save” button – The system validates the entered data – The system updates the user's profile information in the database – The system shows a confirmation message that the profile has been successfully updated <p>Alternative Flow</p> <p>1a. Invalid Data Entered</p> <ul style="list-style-type: none"> – The system detects that one or more fields contain invalid data (e.g., incorrect email format, required field left blank) – The system displays error messages indicating the invalid fields – The user corrects the errors and clicks “Save” again – The use case resumes at “the system validates the entered data” onwards <p>2a. User Cancels Editing</p> <ul style="list-style-type: none"> – The user clicks “Cancel” instead of “Save”

	<ul style="list-style-type: none"> – The system discards any changes made – The system returns the user to the profile view page – The use case ends without changing any data
--	---

Use Case Name: View dashboard

<i>Use case ID:</i>	UC-04
<i>Author:</i>	Lorenzo Emil Bernal
<i>Purpose:</i>	All users should be able to see the results displayed in the dashboard after the analysis
<i>Requirement Traceability:</i>	PR-04
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> – User opens the CitiSense web application – User navigates to the Dashboard
<i>Postconditions:</i>	<ul style="list-style-type: none"> – Users can see the Dashboard – System generated reports are saved locally in the user's computer
<i>Actors:</i>	User, Employee, System Admin
<i>Extends:</i>	
<i>Flow of Actions:</i>	<p>Basic Flow</p> <p>1. View Dashboard</p> <ul style="list-style-type: none"> – Open CitiSense web app – Navigate to Dashboard – The CitiSense web app will show the visualization of sentiment analysis results as it updates at real-time pace <p>Alternative Flow</p> <p>1a. Generate Report</p> <ul style="list-style-type: none"> – Open CitiSense web app – Navigate to Dashboard – Click on the “Export Data” in the Dashboard page. – The generated report will be downloaded to the user's local computer

Use Case Name: Manage Data Table

<i>Use case ID:</i>	UC-05
<i>Author:</i>	Lorenzo Emil Bernal
<i>Purpose:</i>	Employees should be able to manage the data table
<i>Requirement Traceability:</i>	PR-05
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none">– User is logged in– The user must be of the “Data Analyst” role
<i>Postconditions:</i>	<ul style="list-style-type: none">– User views the data table– The user can manage the data table– Exported table is saved locally on the user’s computer
<i>Actors:</i>	Employee
<i>Extends:</i>	
<i>Flow of Actions:</i>	<p>Basic Flow</p> <p>1. Manage Data Table</p> <ul style="list-style-type: none">– Open the CitiSense web app– Log in to the CitiSense web application– Click on the “Data Table” sub-process of the Dashboard button.– Verify that the user is in the “Data Analyst” role.– The Data Analyst user can then preview all or apply filters for the Data Table– The Data Analyst user can then view the labeled feedback <p>Alternative Flow</p> <p>1a. Update Data Table</p> <ul style="list-style-type: none">– Open the CitiSense web app– Log in to the CitiSense web application– Click on the “Data Table” sub-process of the Dashboard button.– Verify that the user is in the “Data Analyst” role– The user can then preview all or apply filters for the Data table– Users will see the sentiment-labeled feedback– Users can now edit the sentiment labels for each feedback in the data table

	2a.Invalid Role <ul style="list-style-type: none"> – Open the CitiSense web app – Log in to the CitiSense web application – Click on the “Data Table” sub-process of the Dashboard button. – Verify that the user is in the “Data Analyst” role – The user is not assigned any role – The system will show an “Access Denied message.”
--	---

Use Case Name: Perform Sentiment Analysis

<i>Use case ID:</i>	UC-06
<i>Author:</i>	Luis Lorenzo Lazaro, Lorenzo Emil Bernal
<i>Purpose:</i>	To analyze textual data (raw feedback) and determine the sentiment expressed in positive, negative, or neutral automatically by the CitiSense system.
<i>Requirement Traceability:</i>	PR-06
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> – The CitiSense system is running and accessible. – The DOST database is connected to the CitiSense system
<i>Postconditions:</i>	<ul style="list-style-type: none"> – Processed feedback is stored in the CitiSense system’s database. – Sentiment labeling and classifications are stored and available for visualization or export.
<i>Actors:</i>	IRAD database
<i>Extends:</i>	
<i>Flow of Actions:</i>	Basic Flow 1. Perform Sentiment Analysis <ul style="list-style-type: none"> – The raw feedback from IRAD database is automatically synchronized to the CitiSense system’s database. Any new, updated, or deleted data will be reflected immediately in CitiSense system’s database. – The system takes in the raw feedback from the CitiSense system’s database. – The system preprocesses the raw feedback. – The system then performs sentiment analysis using the AI model on the cleaned raw feedback. – The system then stores the processed

	feedback in CitiSense system's database.
--	--

Use Case Name: Administrator Panel Login

<i>Use case ID:</i>	UC-07
<i>Author:</i>	Lorenzo Emil Bernal
<i>Purpose:</i>	System Administrators should be able to login through an admin panel to access the admin dashboard.
<i>Requirement Traceability:</i>	PR-07
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> – Admin panel is accessible
<i>Postconditions:</i>	<ul style="list-style-type: none"> - System Admin is logged in and redirected to the Admin Dashboard
<i>Actors:</i>	System Admin
<i>Extends:</i>	
<i>Flow of Actions:</i>	<p>Basic Flow</p> <p>1. Assign Roles</p> <ul style="list-style-type: none"> – System Administrator opens the CitiSense admin panel login page. – The system Admin enters a valid username and password. – The System Admin clicks on “Login” – The system validates the entered credentials. – The system admin will be authenticated redirected to the Admin Dashboard.

Use Case Name: Assign Roles

<i>Use case ID:</i>	UC-08
<i>Author:</i>	Luis Lorenzo Lazaro, Lorenzo Emil Bernal
<i>Purpose:</i>	System Administrators should be able to assign or update user roles and permissions in the CitiSense admin panel.
<i>Requirement Traceability:</i>	PR-08
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> – System Admin must be logged in. – Admin panel is accessible
<i>Postconditions:</i>	<ul style="list-style-type: none"> – User permissions are updated and saved in the system
<i>Actors:</i>	System Admin

<i>Extends:</i>	
<i>Flow of Actions:</i>	<p>Basic Flow</p> <p>Assign Roles</p> <ul style="list-style-type: none"> – System Administrator opens the CitiSense administrator panel. – System Administrator logs into the admin dashboard with valid credentials. – System verifies the credentials, if access granted, will be directed to admin panel – The administrator navigates to the User Management section – The system displays a list of registered users – The administrator selects a user from the list – The system displays the selected user's current access roles and permissions – The administrator updates the user's roles (e.g., give a user the "Data Analyst" role). – The administrator saves the changes – The system validates the changes and updates the database – The system will confirm the successful update

Use Case Name: Manage user details

<i>Use case ID:</i>	UC-09
<i>Author:</i>	Luis Lorenzo Lazaro, Lorenzo Emil Bernal
<i>Purpose:</i>	System Administrators should be able to edit or update user credentials in CitiSense admin panel.
<i>Requirement Traceability:</i>	PR-09
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> – System Admin must be logged in. – Admin panel is accessible
<i>Postconditions:</i>	<ul style="list-style-type: none"> – Edits and updates on user details are updated and saved in the system's database
<i>Actors:</i>	System Admin
<i>Extends:</i>	
<i>Flow of Actions:</i>	<p>Basic Flow</p> <p>Edit user details</p>

	<ul style="list-style-type: none"> – System Administrator opens the CitiSense administrator panel. – System Administrator logs into the admin dashboard with valid credentials. – System verifies the credentials, if access granted, will be directed to admin panel – The administrator navigates to the User Management section – The system displays a list of registered users – The administrator selects a user from the list – The system displays the selected user's information – The administrator updates the user's credentials (e.g., changes from their names or emails) – The administrator saves the changes – The system validates the changes and updates the database – The system will confirm the successful update
--	---

Use Case Name: Manage Account

<i>Use case ID:</i>	UC-10
<i>Author:</i>	Lorenzo Emil Bernal
<i>Purpose:</i>	Users should be able to view the dashboard, manage the data table, and generate reports for both functionalities.
<i>Requirement Traceability:</i>	PR-10
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> – The system is accessible
<i>Postconditions:</i>	<ul style="list-style-type: none"> – The user has either successfully logged in or created/updated their accounts within the system.
<i>Actors:</i>	Employee, System Administrator
<i>Extends:</i>	
<i>Includes:</i>	UC-01 (Register), UC-02 (Login), UC-03 (Edit user profile)
<i>Flow of Actions:</i>	<p>Basic Flow</p> <ul style="list-style-type: none"> – Open the CitiSense web application – The user selects an action: <ul style="list-style-type: none"> ○ If the user chooses to

	<p>Register: The flow includes Register (UC-01)</p> <ul style="list-style-type: none"> ○ Only the user chooses to <p>Login: The flow includes Login (UC-02)</p> <ul style="list-style-type: none"> ○ If the user chooses to <p>Edit their profile: The flow includes Edit User Profile (UC-03)</p> <ul style="list-style-type: none"> - If the user is a system admin: <ul style="list-style-type: none"> ○ They may only log in to the admin panel: The flow includes Login (UC-02). - The system executes the selected included use case. - The chosen included use case completes successfully.
--	--

Use Case Name: Manage Reports

<i>Use case ID:</i>	UC-11
<i>Author:</i>	Lorenzo Emil Bernal
<i>Purpose:</i>	Employees and users should be able to view the dashboard and generate reports. Only the employee can manage the data table.
<i>Requirement Traceability:</i>	PR-11
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none">– The system is accessible– The employee is logged in (required to manage the data table).
<i>Postconditions:</i>	<ul style="list-style-type: none">– The employee has successfully viewed the dashboard or managed the data table.– The user has successfully viewed the dashboard.– Both users have optionally downloaded the reports generated by the system.
<i>Actors:</i>	Employee, User
<i>Extends:</i>	
<i>Includes:</i>	UC-04 (View Dashboard), UC-05 (Manage Data Table)
<i>Flow of Actions:</i>	<p>Basic Flow</p> <ul style="list-style-type: none">– Open the CitiSense web application– If the actor is a user:<ul style="list-style-type: none">○ They can only view the dashboard: The flow includes View Dashboard (UC-04)- If the actor is an employee:<ul style="list-style-type: none">○ They need to log in first within the system before accessing the reports.○ They can choose to view the dashboard: The flow includes View Dashboard (UC-04)○ Or they can choose to manage the data table: The flow includes Manage Data Table (UC-05)– The system executes the selected included use case.– The chosen included use case completes successfully.

Use Case Name: Manage User

<i>Use case ID:</i>	UC-12
<i>Author:</i>	Gab Cabangcala
<i>Purpose:</i>	System Administrators should be able to manage user accounts, including updating user details and assigning roles.
<i>Requirement Traceability:</i>	PR-12
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none">– The system administrator must be logged in.
<i>Postconditions:</i>	<ul style="list-style-type: none">– The target user's details and roles have been successfully updated
<i>Actors:</i>	System Administrator
<i>Extends:</i>	
<i>Includes:</i>	UC-08 (Assign Roles), UC-09 (Manage User Details)
<i>Flow of Actions:</i>	<p>Basic Flow</p> <ul style="list-style-type: none">– Open the CitiSense web application– The system admin selects a target user.– The system admin edits details:<ul style="list-style-type: none">○ The flow includes the steps defined in UC-08 (Assign Roles).○ The flow includes the steps defined in UC-09 (Manage User Details)– The System returns the Administrator to the User Management dashboard.