

MNSTDEV QUADTHINK – FULLY DRESSED USE CASE DIAGRAM (CitiSense)

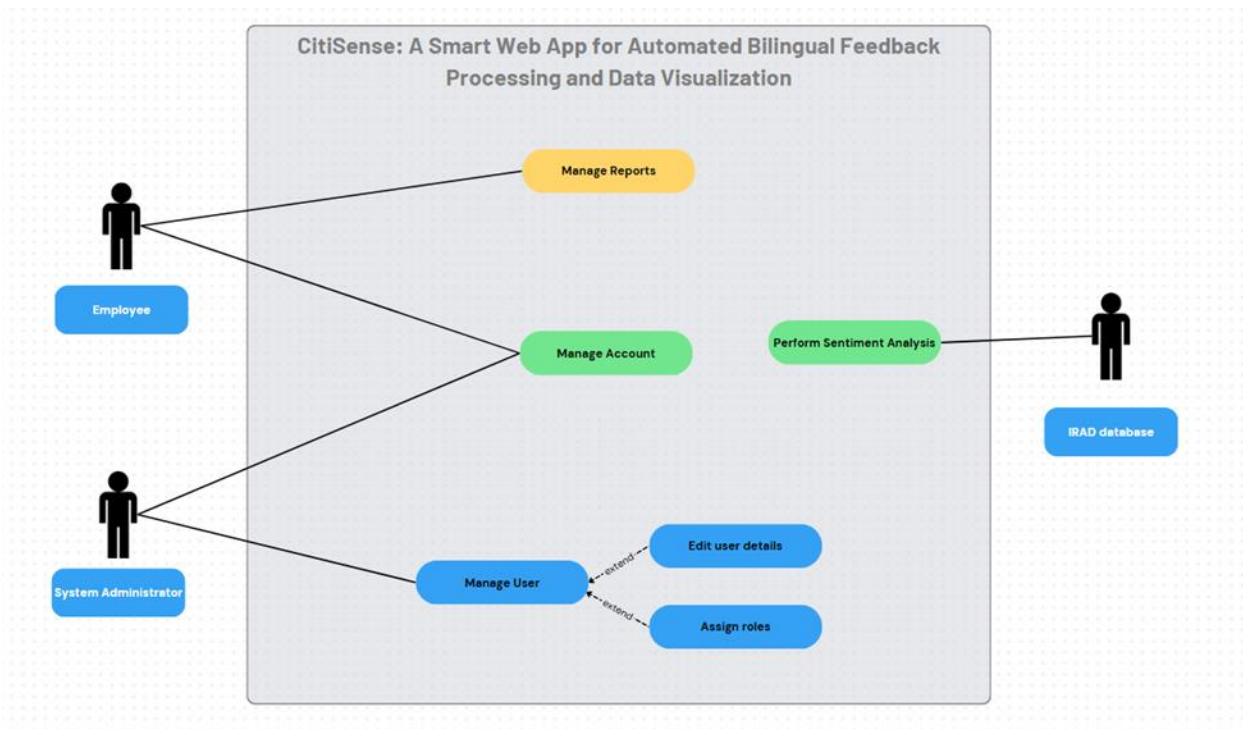
Lorenzo Bernal

Gab Cabangcala

Luis Lazaro

Mark Marabi

Use Case Diagram:



Product Requirements

ID	Requirement
PR-01	Users should register and log in to access the CitiSense web application. Users can change their user credentials once authenticated inside the web application.
PR-02	Users can view and manage data reports inside the CitiSense web application
PR-03	Only System Admins can manage users of the CitiSense web application.
PR-04	The CitiSense system will automatically process the raw feedback data from “IRAD database” and output sentiment-labeled feedback, which will be stored in the database.

Use Case Name: Manage Account

<i>Use case ID:</i>	UC-01
<i>Author:</i>	Luis Lorenzo Lazaro, Lorenzo Emil Bernal
<i>Purpose:</i>	DOST-STII IRAD Personnel should be able to view their account credentials
<i>Requirement Traceability:</i>	PR-01
<i>Priority</i>	High
<i>Preconditions:</i>	- User/s open the CitiSense web app
<i>Postconditions:</i>	<ul style="list-style-type: none"> - User/s input valid credentials in registration - User/s information is verified in the system - User/s should be able to log in successfully
<i>Actors:</i>	Employee, System Admin
<i>Flow of Actions:</i>	Basic Flow <ol style="list-style-type: none"> 1. Register User <ul style="list-style-type: none"> ○ Open the CitiSense web app ○ Click the “Register” button ○ Register account using valid credentials (Email, Username, and Password) ○ Click “Submit” ○ The user will now be redirected to the Login Page of the app 2. User Login <ul style="list-style-type: none"> ○ Open the CitiSense web app ○ Click the “Login” button ○ Enter valid credentials ○ Click “Enter” ○ The user will now be redirected to the Home Page of the app 3. System Admin Login <ul style="list-style-type: none"> ○ Open the CitiSense admin dashboard

	<ul style="list-style-type: none"> ○ Click the “Login” button ○ Enter valid credentials ○ Click “Enter” ○ The user will now be redirected to the admin dashboard of the app <p>Alternative Flow</p> <p>1. Unregistered user</p> <ul style="list-style-type: none"> ○ Click Login to the web app ○ User inputs valid credentials ○ The user is prompted with the message “User is not registered.” ○ The user stays on the Login page
--	---

Use Case Name: Manage Reports

<i>Use case ID:</i>	UC-02
<i>Author:</i>	Luis Lorenzo Lazaro, Lorenzo Emil Bernal
<i>Purpose:</i>	Registered users should have the ability to manage reports
<i>Requirement Traceability:</i>	PR-02
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> - User/s are logged in
<i>Postconditions:</i>	<ul style="list-style-type: none"> - User information is verified in the system - Users should be able to use the web app - Users can now navigate through the web app - Users can manage data reports
<i>Actors:</i>	Employee, System Admin

<p><i>Flow of Actions:</i></p>	<p>Basic Flow</p> <ol style="list-style-type: none"> 1. Manage Reports <ul style="list-style-type: none"> ○ Open the CitiSense web app ○ Log in to the CitiSense web application ○ Navigate to Dashboard ○ The CitiSense web app will show the visualization of sentiment analysis results from the labelled feedback data. ○ User/s will see the result of the analysis as it also updates at a real-time pace <p>Alternative Flow</p> <ol style="list-style-type: none"> 1. Manage Archive <ul style="list-style-type: none"> ○ Open the CitiSense web app ○ Log in to the CitiSense web application ○ Click on the “Archive” sub-process of the Dashboard button. ○ User/s will now see the past analyzed and visualized data with dates and who did the process on the information ○ User/s may now manage their archive dashboard data. 2. View Data Table <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 3. Update Data Table <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.
--------------------------------	--

	<ul style="list-style-type: none"> ○ 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 ○ User/s will see the sentiment-labeled feedback ○ Users can now edit the sentiment labels for each feedback in the data table. <p>4. Export Dashboard</p> <ul style="list-style-type: none"> ○ Open CitiSense web app ○ Log in to the CitiSense web application ○ Click on the “Export Data” in the Dashboard page. ○ The exported dashboard can now be seen in the “Archive” page.
--	---

Use Case Name: Manage User

<i>Use case ID:</i>	UC-03
<i>Author:</i>	Luis Lorenzo Lazaro, Lorenzo Emil Bernal
<i>Purpose:</i>	System Administrators should be able to assign or update user credentials, roles, and permissions in the CitiSense web application.
<i>Requirement Traceability:</i>	PR-03
<i>Priority</i>	High
<i>Preconditions:</i>	<ul style="list-style-type: none"> - Admin is 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>Flow of Actions:</i>	<p>Basic Flow</p> <ol style="list-style-type: none"> 1. Managing Users <ul style="list-style-type: none"> ○ The System Administrator opens the CitiSense administrator panel. ○ The System Administrator logs into the admin dashboard with valid credentials. ○ System verifies the credentials; if access is

	<p>granted, they will be directed to the admin panel.</p> <ul style="list-style-type: none"> ○ The administrator navigates to the User Management section ○ The system displays a list of registered users ○ The administrator can now manage registered users of the CitiSense web application. <p>Alternative Flow</p> <p>2. Edit User Details</p> <ul style="list-style-type: none"> ○ The System Administrator opens the CitiSense administrator panel. ○ The System Administrator logs into the admin dashboard with valid credentials. ○ System verifies the credentials; if access is granted, it will be directed to the admin panel. ○ The System Administrator navigates to the User Management section ○ The System administrator selects a user from the User list. ○ The system displays the selected user's current credentials, roles, and permissions ○ The System administrator can now update the user's credentials ○ The System administrator saves the changes ○ The system validates the changes and updates the database ○ The system will confirm the successful update <p>3. Assign Roles</p> <ul style="list-style-type: none"> ○ The System Administrator opens the CitiSense administrator panel. ○ The System Administrator logs into the admin dashboard with valid credentials. ○ System verifies the
--	---

	<p>credentials; if access is granted, it will be directed to the admin panel.</p> <ul style="list-style-type: none"> ○ The System administrator navigates to the User Management section ○ The administrator selects a user from the User list ○ The system displays the selected user's current access roles and permissions ○ The administrator can now update the user's roles (e.g., Data Analyst and Admin). ○ The administrator saves the changes ○ The system validates the changes and updates the database ○ The system will confirm the successful update
--	--

Use Case Name: Perform Sentiment Analysis

<i>Use case ID:</i>	UC-04
<i>Author:</i>	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-04
<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>Flow of Actions:</i>	<p>Basic Flow</p> <ol style="list-style-type: none"> 1. Perform Sentiment Analysis <ul style="list-style-type: none"> ○ The raw feedback from IRAD database is automatically

	<p>synchronized to the CitiSense system's database. Any new, updated, or deleted data will be reflected immediately in CitiSense system's database.</p> <ul style="list-style-type: none"> ○ 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.
--	---

Test Case Table

TC ID	UC ID	Test Case Name	Test Case Description
TC-01	UC-01	Verify account management	Users should be able to register and log in to an account to access the system. Users should also be able to change their credentials after authenticating inside the CitiSense web application.
TC-02	UC-02	Verify that the authenticated users can access the dashboard, export and manage reports, and that only users with the "Data Analyst" role can manage the data table.	Authenticated users should be able to view and export the dashboard. Also, users should be able to manage their archived dashboards. Finally, only users of the "Data Analyst" role can manage the data table
TC-03	UC-03	Verify that System admins can manage users	System administrators should be able to manage users, including changing user credentials and managing roles for each user of the CitiSense web app.
TC-04	UC-04	Perform Sentiment Analysis	Verify that the CitiSense can correctly take in and synchronize the raw feedback from IRAD database to the CitiSense system's database. From there, process the raw feedback, analyze it, and store the final sentiment-labeled output in the database.

RTM (Requirements Traceability Matrix)

Product Requirement No.	Use Case ID	Test Case ID
PR-01	UC-01	TC-01
PR-02	UC-02	TC-02
PR-03	UC-03	TC-03
PR-04	UC-04	TC-04