

USE CASE ANALYSIS

Use case analysis is a technique used in software and systems engineering to identify, clarify, and organize system requirements by defining the interactions between a user (actor) and a system to achieve specific goals. This analysis helps ensure that the system meets user needs and provides a clear understanding of system functionality and user interactions.

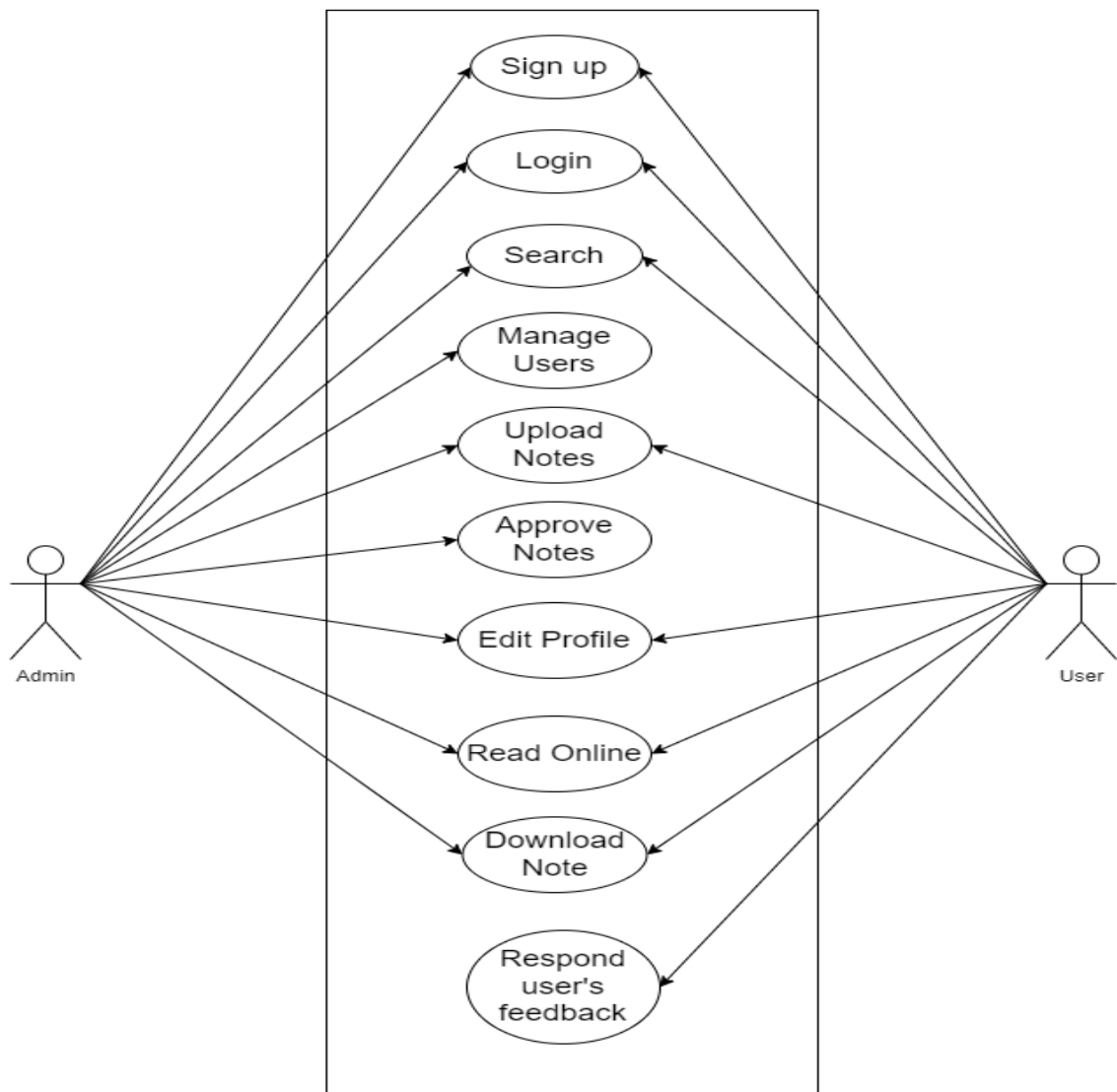


Fig 1: Use Case Diagram (User and admin)

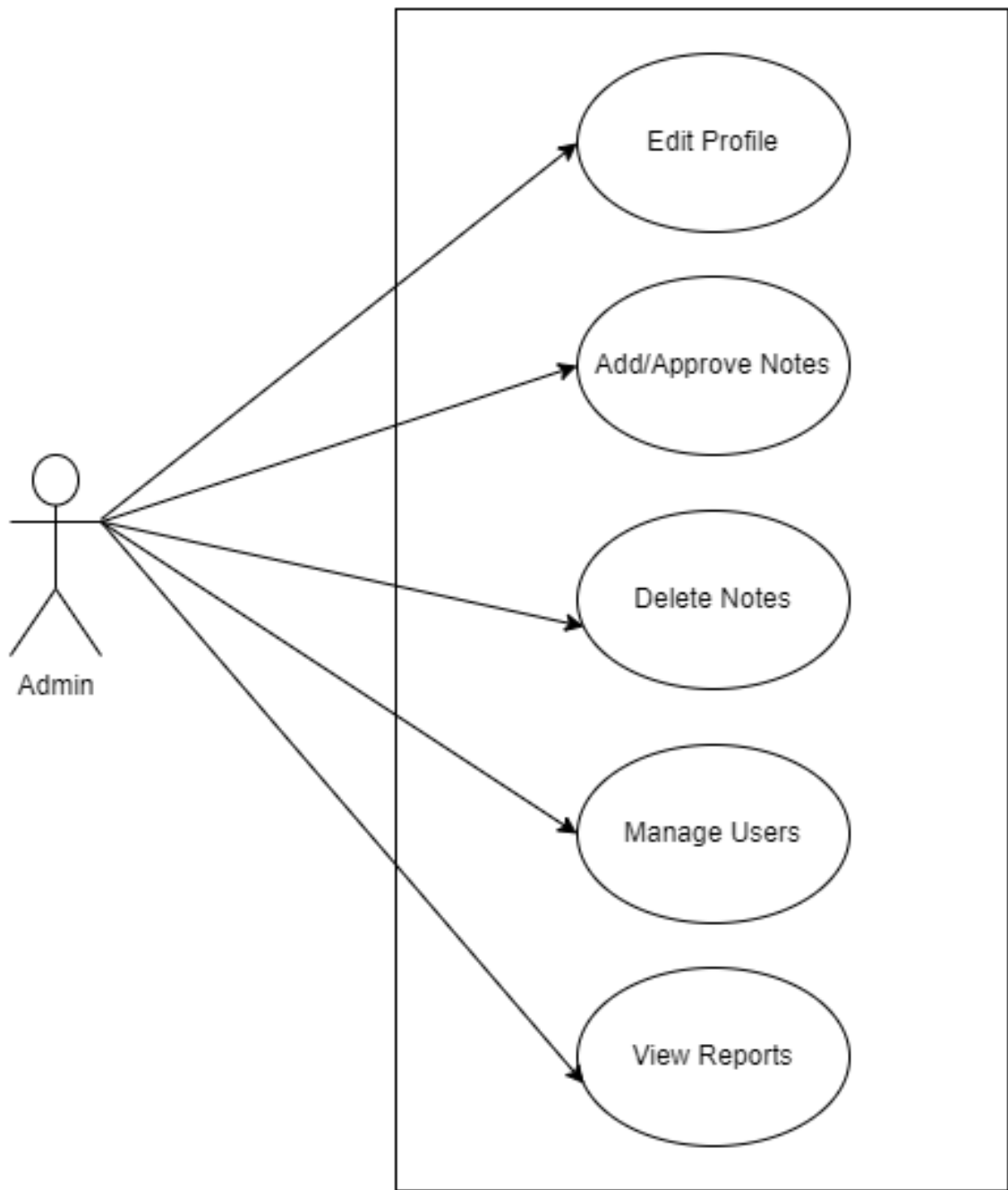


Fig 2: Use Case Diagram for Admin

Approve Note

Admin

This use case describes the process of an admin approving a note uploaded by a user.

- The admin is registered with the Notes Management System.
- The admin has logged into their account.
- The admin navigates to the pending approvals section.
- The admin reviews the list of notes pending approval.
- The admin selects a note to review.
- The system displays the note details (title, description, category, uploaded by, upload date, etc.).
- The admin reviews the note content for appropriateness and accuracy.
- If the note meets the system's guidelines, the admin marks the note as approved.
- The system updates the note's status to approved.
- The note becomes available for all users to view and download.
- If the note does not meet the guidelines, the admin marks the note as rejected.
- The system updates the note's status to rejected and sends a notification to the user with the reason for rejection.

Manage Users

Admin

This use case describes the process of an admin managing user accounts in the system.

- The admin is registered with the Notes Management System.
- The admin has logged into their account.
- The admin navigates to the user management section.
- The admin reviews the list of registered users.
- The admin selects a user to manage.
- The system displays the user's details (name, email, registration date, status, etc.).
- The admin can update user details if necessary.
- The admin can change the user's status (activate, deactivate, or ban).
- The system updates the user's status and logs the action.
- If the user is banned, the system sends a notification to the user about the action.
- The admin can also reset the user's password.
- The system logs all actions taken by the admin.

View Reports

Admin

This use case describes the process of an admin viewing system reports.

- The admin is registered with the Notes Management System.
- The admin has logged into their account.
- The admin navigates to the reports section.
- The admin selects the type of report they want to view (upload activity, user activity, system performance, etc.).
- The system generates the selected report.
- The admin reviews the report data (e.g., number of uploads, user activity logs, system errors).
- The admin can download the report for further analysis.
- The system logs the admin's report viewing activity.

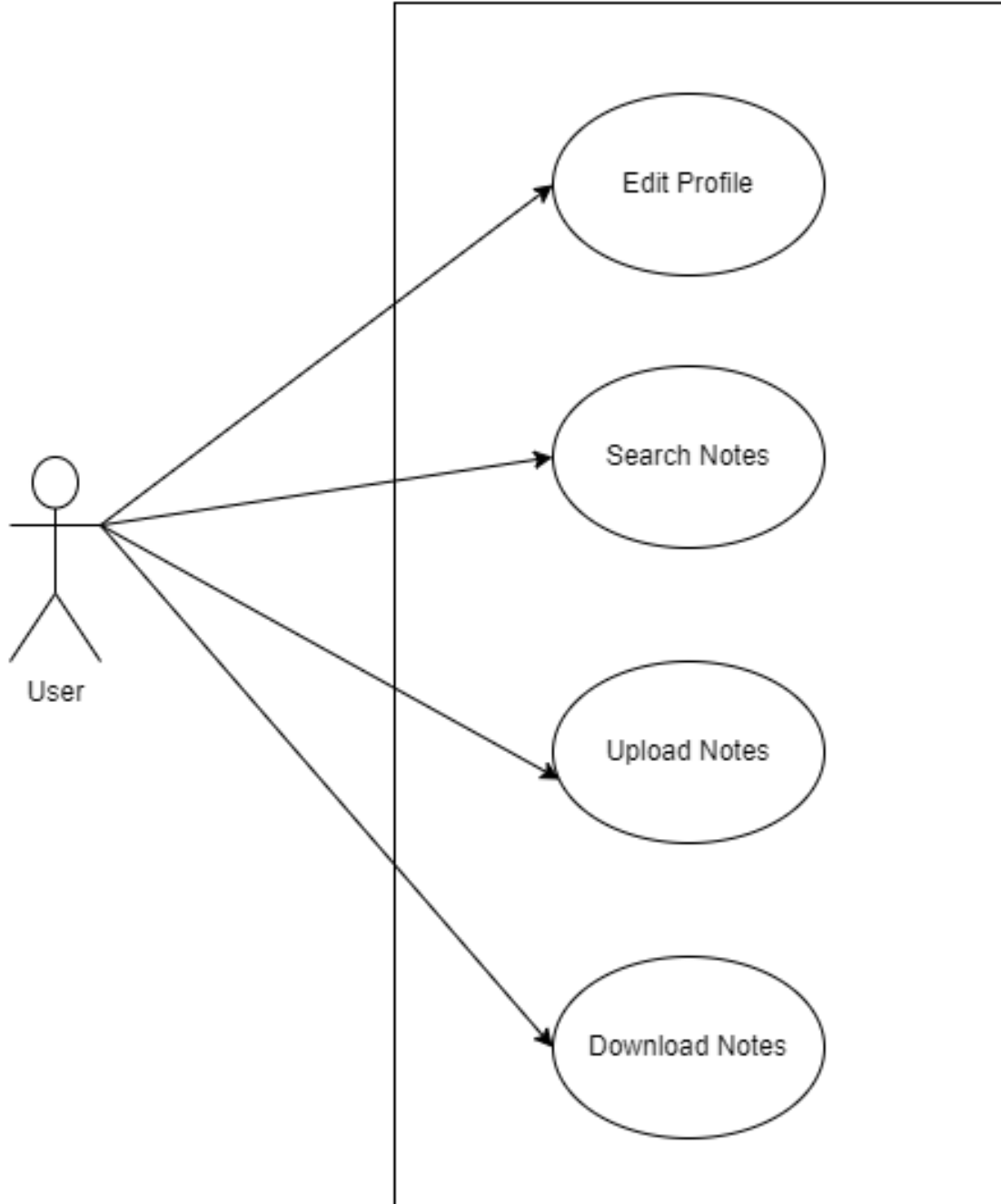


Fig 3: Use Case Diagram for User

Upload Note

User

This use case describes the process of a user uploading a note to the system.

- The user is registered with the Notes Management System.
- The user has logged into their account.
- The user has the note file ready for upload.
- The user navigates to the upload section of the system.
- The user selects the note file from their device.
- The user provides necessary details (title, description, category, etc.) about the note.
- The user agrees to the copyright policy of the system.
- The user clicks the upload button.
- The system verifies the file format and size.
- The system checks for any duplicate files.
- If the file is valid and not a duplicate, the system uploads the note and updates the database with the new entry.
- The system generates a confirmation message for the successful upload.
- The note is marked as pending approval by an admin.
- The user receives a notification about the pending approval status.
- The system logs the upload activity in the user's record.
- If the file is invalid or a duplicate, the system displays an error message and the process ends.

View Notes

User

This use case describes the process of a user viewing available notes in the system.

- The user is registered with the Notes Management System.
- The user has logged into their account.
- The user navigates to the notes library section.
- The user uses search filters (title, category, upload date, etc.) to find specific notes.
- The user selects a note from the search results.
- The system displays the note details (title, description, upload date, uploaded by, etc.).
- The user can view the note content if it is approved.
- If the note is not approved, the user sees a message indicating its pending approval status.
- The user can download the approved note or save it to their favorites.
- The system logs the view activity in the user's record.