

DESIGN DOCUMENT

Hubba - Project Showcase

Version 1.0

Prepared By: Development Hell

Class: CECS 491B-05

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Github Repository:

<https://github.com/DevelopmentHellaHell/SeniorProject>

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Revision History

Version	Overview	Date
1.0	Requirements Established, Draft Relational Tables	April 4, 2023

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Overview

This document is intended to provide all need-to-know sources of the design of the Project Showcase feature for potential cases of fixing, improving, debugging, and understanding all components of this feature. This document contains multiple abstraction levels of design, including use cases and database tables.

Requirements to Satisfy

Taken directly from the BRD.

 DevelopmentHell_BRD_v.3.2

Business Rules:

- Project showcase descriptions will support text markdown syntax
- A project showcase must include a 1 word title, 50 word description, and 1 file upload for minimal publishing requirements
- Comments will be viewable at intervals of 10, 20, 50

Common Non-Functional Requirements:

- Action must be confirmed within 5 seconds

Requirements (list):

1. View Project Showcase
 - a. Preconditions:
 - i. Project showcase is published and has public visibility
 - b. Acceptance:
 - i. All users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Selection of desired showcase to view
 - d. Success criteria:
 - i. Showcase title, description, and attached files are viewable
 - e. Failure criteria:
 - i. Showcase title, description, or attached files are unviewable
 - f. Failure response:
 - i. Retry Once. On repeated failure, "Unable to load project showcase. Refresh page or try again later"
2. Like Project Showcase
 - a. Preconditions:
 - i. User must have selected a Project showcase
 - ii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - d. Success criteria:
 - i. Project showcase like tally increases by one
 - ii. AND User data stores liked project showcase
 - e. Failure criteria:

- i. Like is not reflected on project showcase
 - ii. OR Like is not linked to user
- f. Failure response:
 - i. Retry once. On repeated failure, notify user "Project showcase like error. Unable to like project showcase. Refresh page or try again later"
- g. Non-Functional Requirements:
 - i. User must select the like project showcase option on view to confirm action
- 3. Create Project Showcase Draft
 - a. Preconditions:
 - i. User must have used the workspace in the listing
 - ii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Title
 - ii. AND Relevant project files
 - iii. AND Description
 - d. Success criteria:
 - i. Project showcase draft created
 - ii. AND Project showcase filled in with user input fields
 - iii. AND Project showcase missing user input fields where empty
 - e. Failure criteria:
 - i. Project showcase draft not created
 - ii. OR Project showcase completely empty
 - iii. OR Project showcase missing user input fields where user submitted parameters
 - f. Failure response:
 - i. If creation can be confirmed in the database, notify the user confirming "Project showcase was created."
 - ii. If unconfirmed, retry once. On repeated failure, notify the user that "Project showcase creation error. Project showcase was not created. Refresh page or try again later."
- 4. Edit Drafted Project Showcase
 - a. Preconditions:
 - i. User must have used the workspace in the listing
 - ii. AND User must have a drafted project showcase
 - iii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. NOTE: this should be changed to be or's for the details of the showcase
 - ii. Title
 - iii. AND Addition or removal of project files
 - iv. AND Description
 - v. AND Confirmation via user input

- d. Success criteria:
 - i. Project showcase draft reflects new user input
 - e. Failure criteria:
 - i. Project showcase draft removes unedited fields
 - ii. OR Project showcase draft is not identical to user edit
 - f. Failure response:
 - i. Retry once. On repeated failure, notify the user that "Project showcase draft edit error. Edit was not saved. Refresh page or try again later."
 - g. Non-Functional Requirements:
 - i. User must confirm action from options of yes or no
 - ii. Selection of no returns the user to their previous view
5. Remove Drafted Project Showcase
- a. Preconditions:
 - i. User must have used the workspace in the listing
 - ii. AND User must have a drafted project showcase
 - iii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - d. Success criteria:
 - i. Project showcase draft is removed from data
 - e. Failure criteria:
 - i. Project showcase draft is viewable
 - ii. OR Project showcase draft is published
 - iii. OR Project showcase draft remains in database
 - f. Failure response:
 - i. If removal of showcase draft is confirmed in the database, notify user that "Removal of project showcase draft was successful."
 - ii. If unconfirmed, retry once. On repeated failure, notify user that "Project showcase removal error. Removal of project showcase draft was unsuccessful. Refresh page or try again later."
 - g. Non-Functional Requirements:
 - i. Removal of drafted project showcase must be confirmed within 5 seconds
 - ii. User must confirm action from options of yes or no
 - o Selection of no returns the user to their previous view
6. Preview Drafted Project Showcase
- a. Preconditions:
 - i. User must have used the workspace in the listing
 - ii. AND User must have a drafted project showcase
 - iii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on project showcase view of a listing
 - c. Requirement input:
 - i. Title
 - ii. AND Project file(s)

- iii. AND Description
 - d. Success criteria:
 - i. Project showcase is viewed as published view
 - ii. AND Project showcase is only viewable by owner of draft
 - e. Failure criteria:
 - i. Project showcase is published
 - ii. OR Project showcase is viewable by any user
 - f. Failure response:
 - i. Prompt user "Daft failed to load. Refresh page or try again later."
 - o NOTE: typo from BRD
 - g. Non-Functional Requirements:
 - i. Preview of project showcase must be confirmed within 3 seconds
 - o Ignore common non-functional requirement
- 7. Publish Drafted Project Showcase
 - a. Preconditions:
 - i. User must have used the workspace in the listing
 - ii. AND User must have a drafted project showcase
 - iii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - ii. AND Title
 - iii. AND Project file(s)
 - iv. AND Description
 - d. Success criteria:
 - i. Project showcase is viewable by all users
 - e. Failure criteria:
 - i. Project showcase is hidden from view
 - ii. OR Project showcase is not identical to drafted showcase created by owner of draft
 - iii. OR Project showcase does not display attached files
 - f. Failure response:
 - i. If publication can be confirmed in the database, notify user that "Publication of project showcase was successful."
 - ii. If unconfirmed, retry once. On repeated failure, notify user that "Project showcase was not published. Refresh page or try again later."
 - g. Non-Functional Requirements:
 - i. User must confirm publication of project showcase from options of yes or no
 - o Selection of no returns the user to their previous view
- 8. Edit Published Project Showcase
 - a. Preconditions:
 - i. User must have used the workspace in the listing
 - ii. AND User must have published project showcase
 - iii. AND User must be logged in
 - b. Acceptance:

- i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - ii. AND Title
 - iii. AND Addition or removal of project files
 - iv. AND Description
 - d. Success criteria:
 - i. Project showcase is viewable by all users
 - ii. AND Project showcase reflects edited fields
 - e. Failure criteria:
 - i. Project showcase is hidden from public view
 - ii. OR Project showcase draft removes unedited fields
 - iii. OR Project showcase draft is not identical to user edit
 - iv. OR Project showcase duplicate is created
 - f. Failure response:
 - i. Notify user "Edit was not confirmed. Refresh page or try again later."
- 9. Remove Published Project Showcase
 - a. Preconditions:
 - i. User must have used the workspace in the listing
 - ii. AND User must have published project showcase
 - iii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - d. Success criteria:
 - i. Project showcase is hidden from public view
 - e. Failure criteria:
 - i. Project showcase is viewable
 - f. Failure response:
 - i. If removal of project showcase can be confirmed in the database, notify user "Project showcase removed successfully."
 - ii. If unconfirmed, retry once. On repeated failure, notify user that "Project showcase was not removed. Refresh page or try again later."
- 10. Reorder Attached Files in Project Showcase
 - a. Preconditions:
 - i. User must have used the workspace in the listing
 - ii. AND User must have a drafted or published project showcase
 - iii. AND User must have multiple (2+) files attached to project showcase
 - iv. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - NOTE: should include if user owns the PS
 - c. Requirement input:

- i. User input confirming selection of file reordering
 - ii. AND User input selecting one file
 - iii. AND User input confirming new placement of selected file in file list
 - d. Success criteria:
 - i. Project showcase reflects new order of files
 - e. Failure criteria:
 - i. Project showcase removes a file
 - ii. OR Project showcase duplicates a file
 - iii. OR Project showcase does not reorder files
 - iv. OR Project showcase order does not reflect user input
 - f. Failure response:
 - i. Retry once. On repeated failure, notify user "Unable to reorder files. Refresh page or try again later."
 - g. Non-Functional Requirements:
 - i. Reordering of project showcase files must be confirmed within 3 seconds
 - o Ignore common non-functional requirement
- 11. Share Project Showcase Link
 - a. Preconditions:
 - i. User must have selected a project showcase
 - b. Acceptance:
 - i. All users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - d. Success criteria:
 - i. Project showcase link is copied to clipboard
 - ii. AND Message box displaying project showcase link
 - e. Failure criteria:
 - i. Project showcase link is not copied to clipboard
 - ii. OR Project showcase link copied is not identical to selected project showcase
 - f. Failure response:
 - i. Prompt user "Link creation failed. Refresh page or try again later."
 - g. Non-Functional Requirements:
 - i. Share link is generated within 1 second
 - o Ignore common non-functional requirement
- 12. Post Project Showcase Comment
 - a. Preconditions:
 - i. User must have selected a project showcase
 - ii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on project showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - ii. AND Comment text to be published
 - d. Success criteria:

- i. Comment is viewable to all
 - e. Failure criteria:
 - i. Comment does not reflect user comment text input
 - ii. OR Comment is not viewable
 - iii. OR Comment does not have correct timestamp
 - f. Failure response:
 - i. If post of project showcase comment can be confirmed in the database, notify user "Project showcase comment posted."
 - ii. If unconfirmed, retry once. On repeated failure, notify user that "Project showcase comment was not posted. Refresh page or try again later."
- 13. Edit Project Showcase Comment
 - a. Preconditions:
 - i. User must have selected a project showcase
 - ii. AND User must have posted a comment
 - iii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - ii. Comment text to replace current comment
 - d. Success criteria:
 - i. Comment is viewable to all and reflect new comment text
 - e. Failure criteria:
 - i. Comment has not changed
 - ii. OR Comment timestamp has not changed
 - f. Failure response:
 - i. Retry once. On repeated failure, notify user that "Project showcase comment was not edited. Refresh page or try again later."
- 14. Remove Project Showcase Comment
 - a. Preconditions:
 - i. User must have selected a project showcase
 - ii. AND User must have posted a comment
 - iii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - ii. AND Comment must be made by user
 - d. Success criteria:
 - i. Comment is hidden from view
 - e. Failure criteria:
 - i. Comment is viewable
 - f. Failure response:

- i. If removal of project showcase comment can be confirmed in the database, notify user "Project showcase comment removed successfully."
- ii. If unconfirmed, retry once. On repeated failure, notify user that "Project showcase comment was not removed. Refresh page or try again later."

15. Vote on Project Showcase Comment

- a. Preconditions:
 - i. User must have selected a project showcase
 - ii. AND User must have selected a comment
 - iii. AND User must be logged in
- b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
- c. Requirement input:
 - i. Confirmation via user input
 - ii. AND User selection of upvote or downvote
- d. Success criteria:
 - i. Comment vote tally increases or decreases
- e. Failure criteria:
 - i. Vote request is not sent to the database
 - ii. OR Vote confirmation is not sent to the user
- f. Failure response:
 - i. If vote of project showcase can be confirmed in the database, notify user "Project showcase vote successful."
 - ii. If unconfirmed, retry once. On repeated failure, notify user that "Project showcase vote was not successful. Refresh page or try again later."

16. Report Project Showcase Comment

- a. Preconditions:
 - i. User must have selected a project showcase
 - ii. AND User must have selected a comment
 - iii. AND User must be logged in
- b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
- c. Requirement input:
 - i. Confirmation via user input
 - ii. AND Reason for report
- d. Success criteria:
 - i. Report is sent to database
- e. Failure criteria:
 - i. Report request is not sent to the database
 - ii. OR Report confirmation is not sent to the user
- f. Failure response:
 - i. If report of project showcase comment can be confirmed in the database, notify user "Project showcase comment reported successfully."
 - ii. If unconfirmed, retry once. On repeated failure, notify user that "Project showcase comment was not reported. Refresh page or try again later."

17. Report Project Showcase

- a. Preconditions:
 - i. User must have selected a project showcase
 - ii. AND User must be logged in
 - b. Acceptance:
 - i. Authenticated users
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - ii. AND Reason for report
 - d. Success criteria:
 - i. Report request is sent to the database
 - ii. AND Report confirmation is sent to the user
 - e. Failure criteria:
 - i. N/A
 - o NOTE: this should be fleshed out
 - f. Failure response:
 - i. If report of project showcase can be confirmed in the database, notify user "Project showcase reported successfully."
 - ii. If unconfirmed, retry once. On repeated failure, notify user that "Project showcase was not reported. Refresh page or try again later."
18. Unlink Project From Project Showcase
- a. Preconditions:
 - i. User must have selected a project showcase
 - ii. AND User must be logged in
 - b. Acceptance:
 - i. Host
 - ii. User must be on Project Showcase view of a listing
 - c. Requirement input:
 - i. Confirmation via user input
 - d. Success criteria:
 - i. Project showcase is removed from listing's project showcase view
 - ii. AND Project showcase user is notified of removal
 - iii. AND Listing owner is notified of removal
 - iv. AND Project showcase is removed from public view and set to draft
 - e. Failure criteria:
 - i. Project showcase is not removed from listing's project showcase view
 - ii. OR Project showcase user is not notified of removal
 - iii. OR Listing owner is not notified of removal
 - iv. OR Project showcase is viewable by all users
 - f. Failure response:
 - i. If removal of project can be confirmed in the database, notify user "Project removed successfully."
 - ii. If unconfirmed, retry once. On repeated failure, notify user that "Project was not removed. Refresh page or try again later."

Possible gold plating:

- Check all text fields for inappropriate language
- Refresh likes/rating on failure to complete a rating transaction
- Ability to refresh

High-Level Design

Permissions

Any permissions that go unmentioned should be assumed to be denied from a user class.

DefaultUser (not logged in)

- Can view all published Project Showcases
- Can view comments on published Project Showcases
- Can view files attached to published Project Showcases
- Can view and share a link to a published Project Showcase

VerifiedUser (logged in, not admin)

- Have all permissions of DefaultUser
- Can create Project Showcase Drafts
- Can view their own unpublished Project Showcase Drafts
- Can Edit and Delete their own Project Showcase Drafts
- Can Edit and Delete their own published Project Showcases
- Can Preview changes during editing of their own Project Showcases
- Can Publish their own Project Showcase
- Can Unpublish their own Project Showcases
- Can Create comments for Project Showcases
- Can Edit and Delete their own comments
- Can Report showcases they believe contain “inappropriate content”
- Can Report comments they believe contain “inappropriate content”
- Can Rate Project Showcases through “likes”
- Can Rate Comments through “upvotes” (positive) and “downvotes” (negative)
- Can Unlink a listing from their Project Showcase

AdminUser

- Have all permissions of VerifiedUser
- Any Permissions of VerifiedUser that are limited to acting on their owned materials are now applicable to all users

Endpoint Format

*Assume requesting user has permissions for these requests.

GET {hubbauri}/showcases/view?s={showcaseId}

- Accesses Project Showcase showcaseId.

GET {hubbauri}/showcases/comments?s={showcaseId}

- Accesses Comments of Project Showcase showcaseId if user has permission to view it.

POST {hubbauri}/showcases/like?s={showcaseId}

- Increments likes of the Project Showcase showcaseId if user has not already liked it

POST {hubbauri}/showcases/new [ListingId, Title, Description, Files]

- Creates a new showcase owned by the user with the given data

POST {hubbauri}/showcases/edit?s={showcaseId} [ListingId, Title, Description, Files]

- Updates a user's existing Project Showcase showcaseId with the given data

POST {hubbauri}/showcases/delete?s={showcaseId}

- Deletes a user's existing Project Showcase showcaseId

POST {hubbauri}/showcases/publish?s={showcaseId}[&l={listingId}]

- Publishes a user's Project Showcase draft showcaseId

POST {hubbauri}/showcases/unpublish?s={showcaseId}

- Unpublishes a user's published Project Showcase showcaseId

POST {hubbauri}/showcases/comments?s={showcaseId} [CommentText]

- Create a comment on a Project Showcase showcaseId.

POST {hubbauri}/showcases/comments/edit?cid={commentId}

- Edit Comment commentId

POST {hubbauri}/showcases/comments/delete?cid={commentId}

- Delete comment commentId

POST {hubbauri}/showcases/comments/rate?cid={commentId}&r={isUpvote}

- Upvotes/downvote comment commentId according to isUpvote

POST {hubbauri}/showcases/comments/report?cid={commentId} [ReasonText]

- Adds report to comment commentId with reason ReasonText

POST {hubbauri}/showcases/report?s={showcaseId} [ReasonText]

- Adds report to ProjectShowcase showcaseId with reason ReasonText

POST {hubbauri}/showcases/unlink

- Unlinks a Listing from a Showcase

File Restrictions

Unnecessary for uploads to fit file service's max, therefore files will be limited to only jpeg (.jpeg, .jpg) or png, as well as the max for the uploaded file size will be 8MB per file. The order of the uploaded files can be reordered by someone with the permissions to edit a particular Showcase or Showcase Draft.

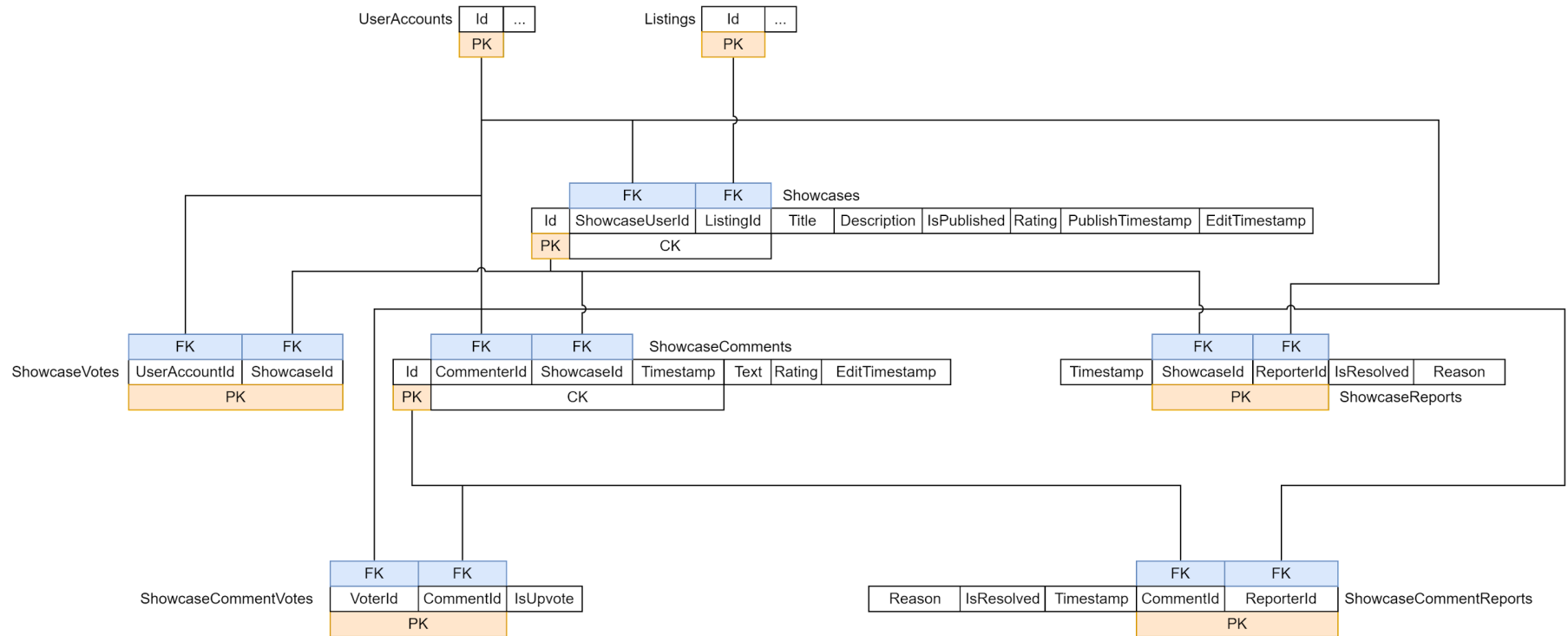
Text Restrictions

Title text will be limited to only Alphanumeric characters and Description text will be limited to alphanumeric characters and basic symbols (.,!()\-). Titles must maintain a minimum of 5 characters and a maximum of 50. Descriptions must maintain a minimum of 250 characters and a maximum of 5000.

Showcase ID assignment

Showcase ID's will be assigned according to a user's unique identifier as well as the current time, making it so that each showcase's ID should be unique, but also easy to address in a url string.

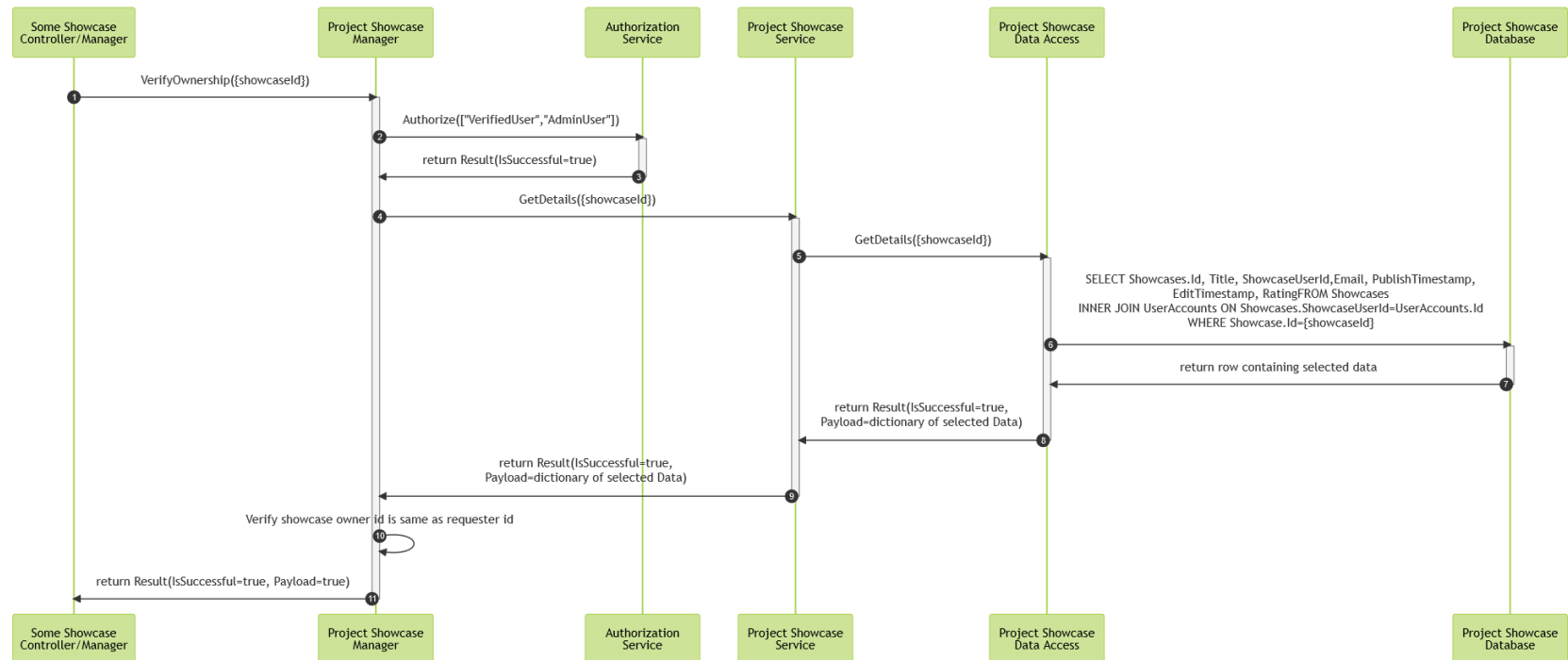
Relational Table(s)



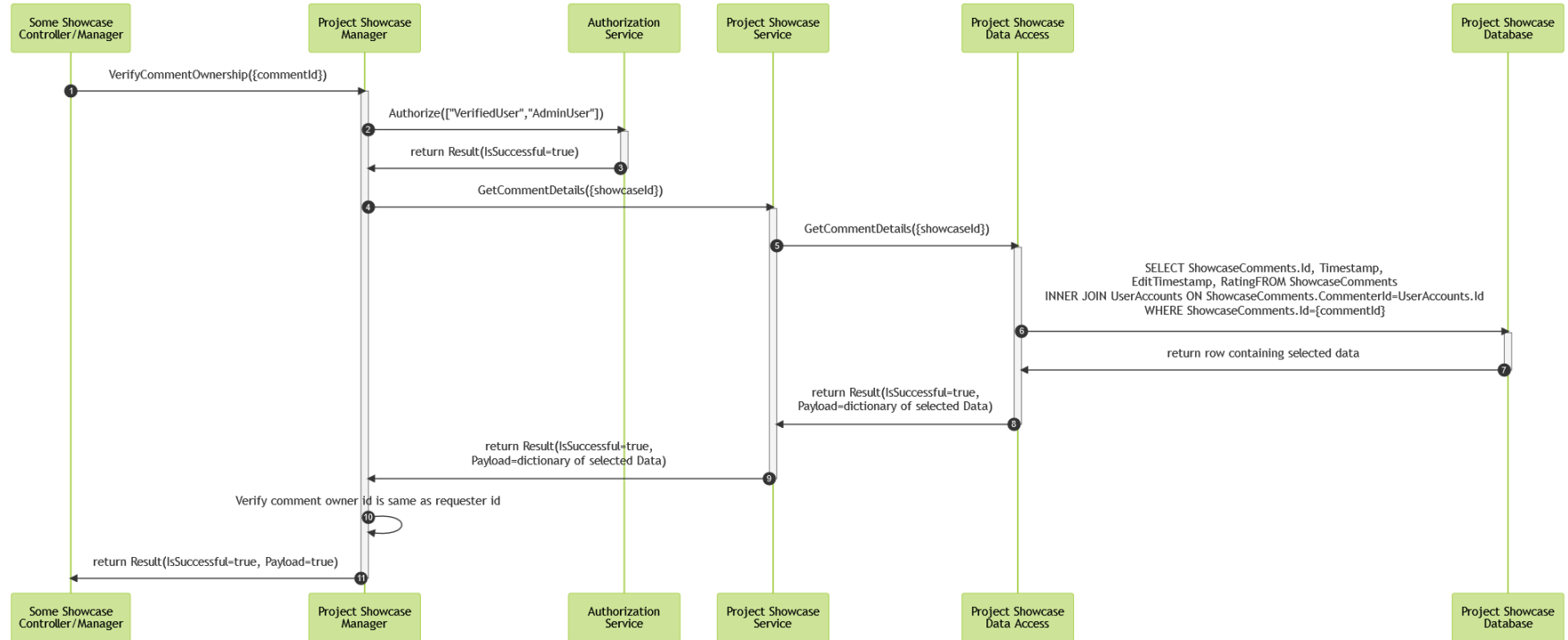
Use Cases

Other Functions

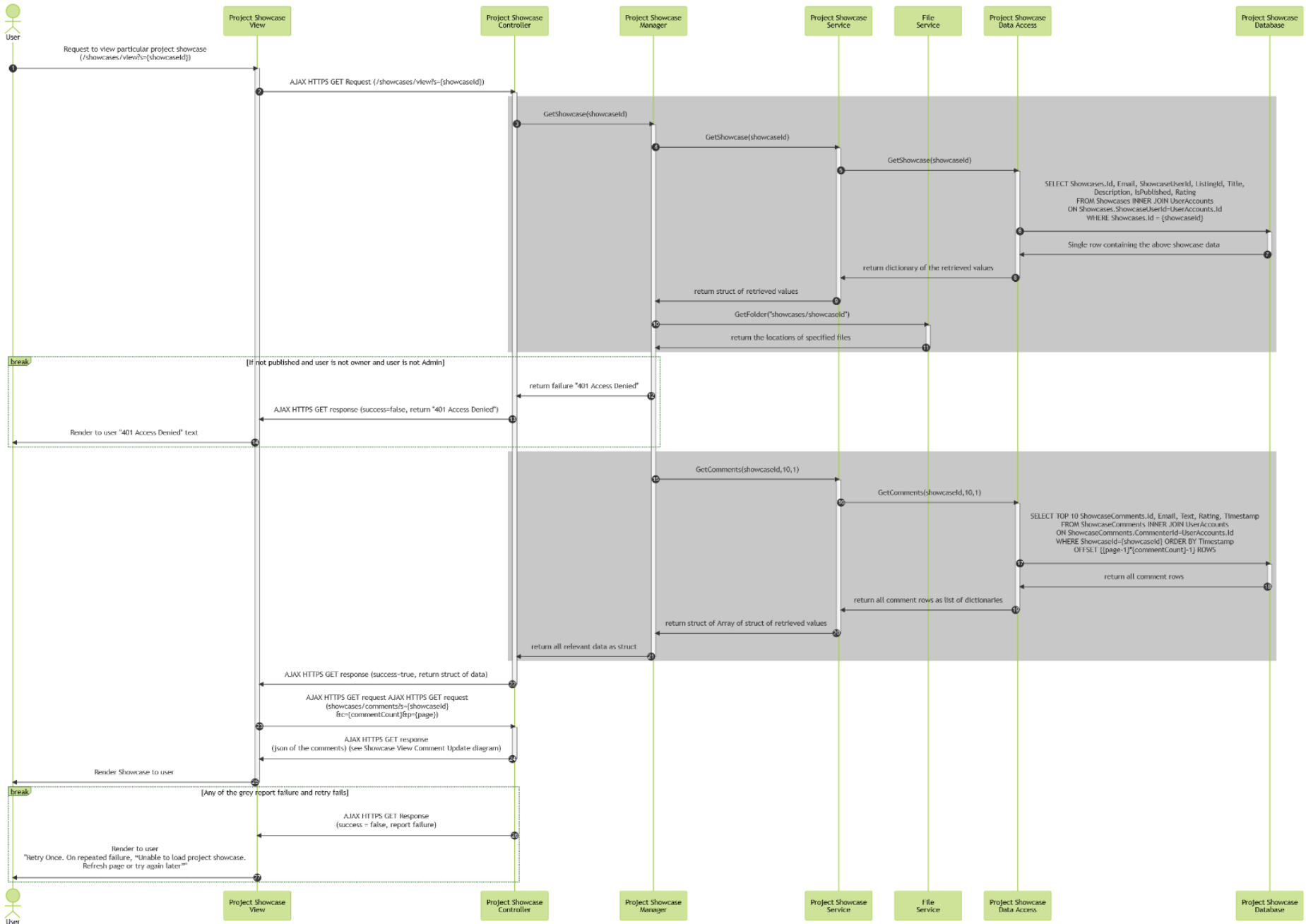
VerifyOwnership



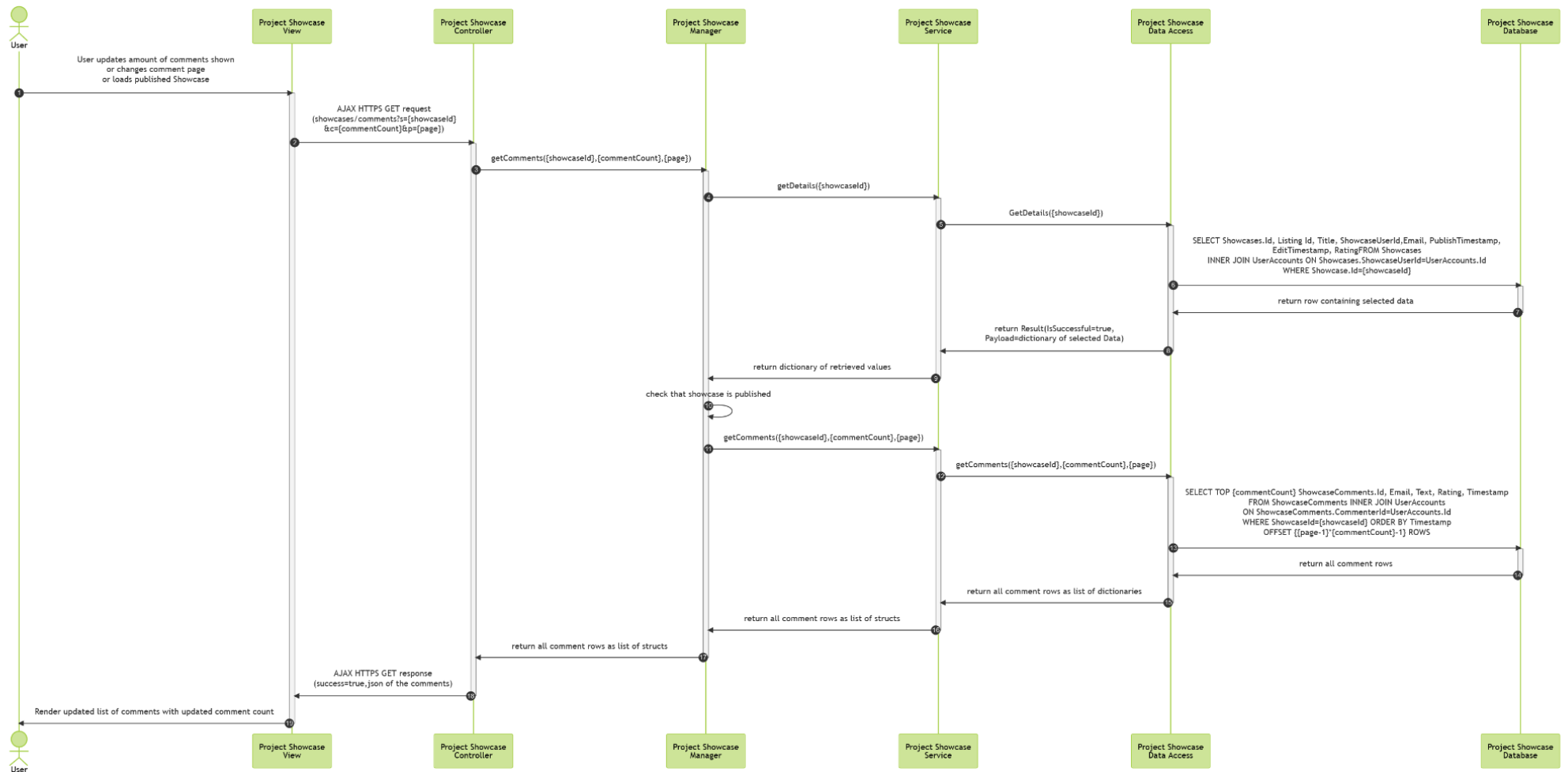
VerifyCommentOwnership



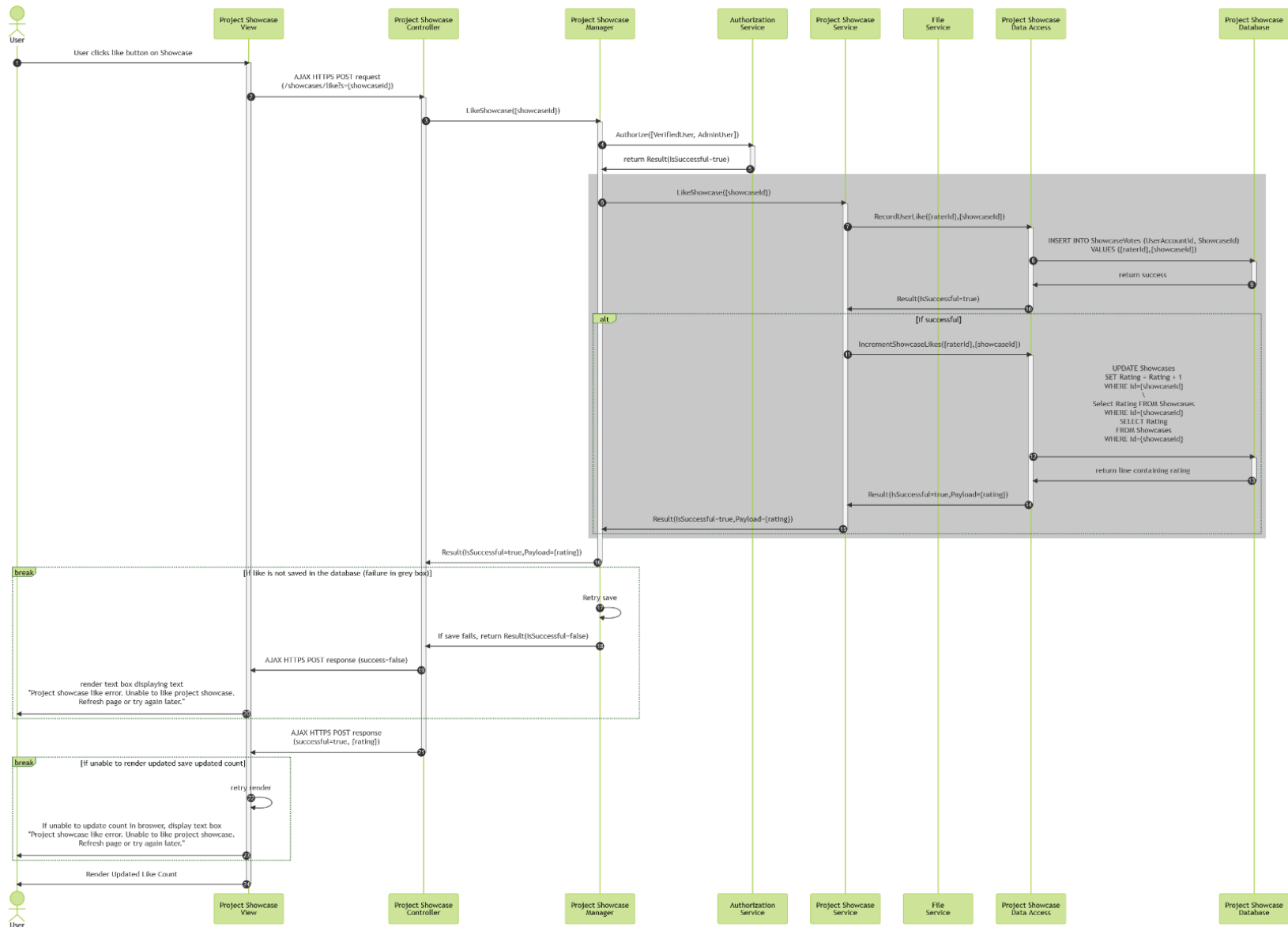
1. View Project Showcase



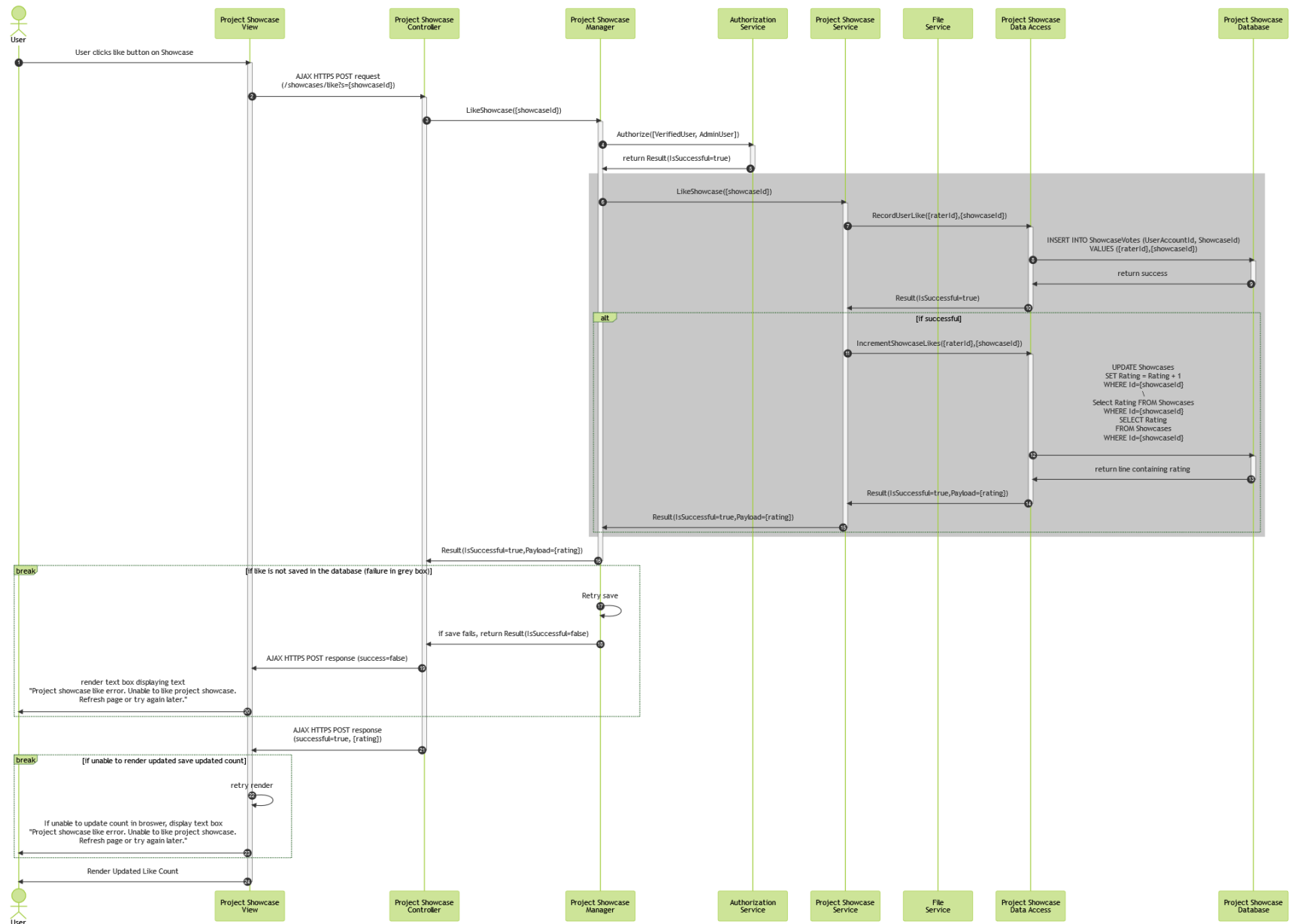
Showcase View Comment Update



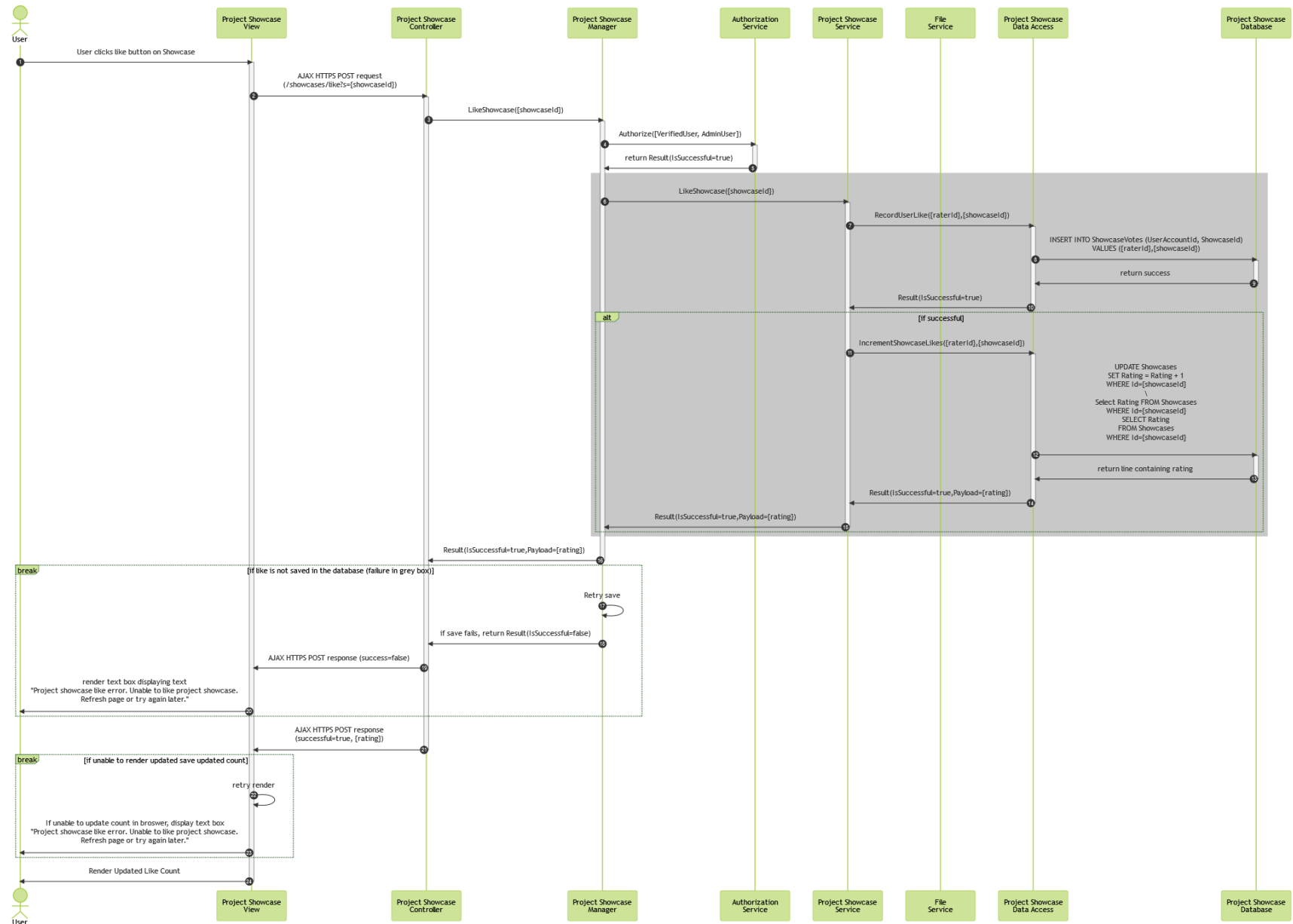
2. Like Project Showcase



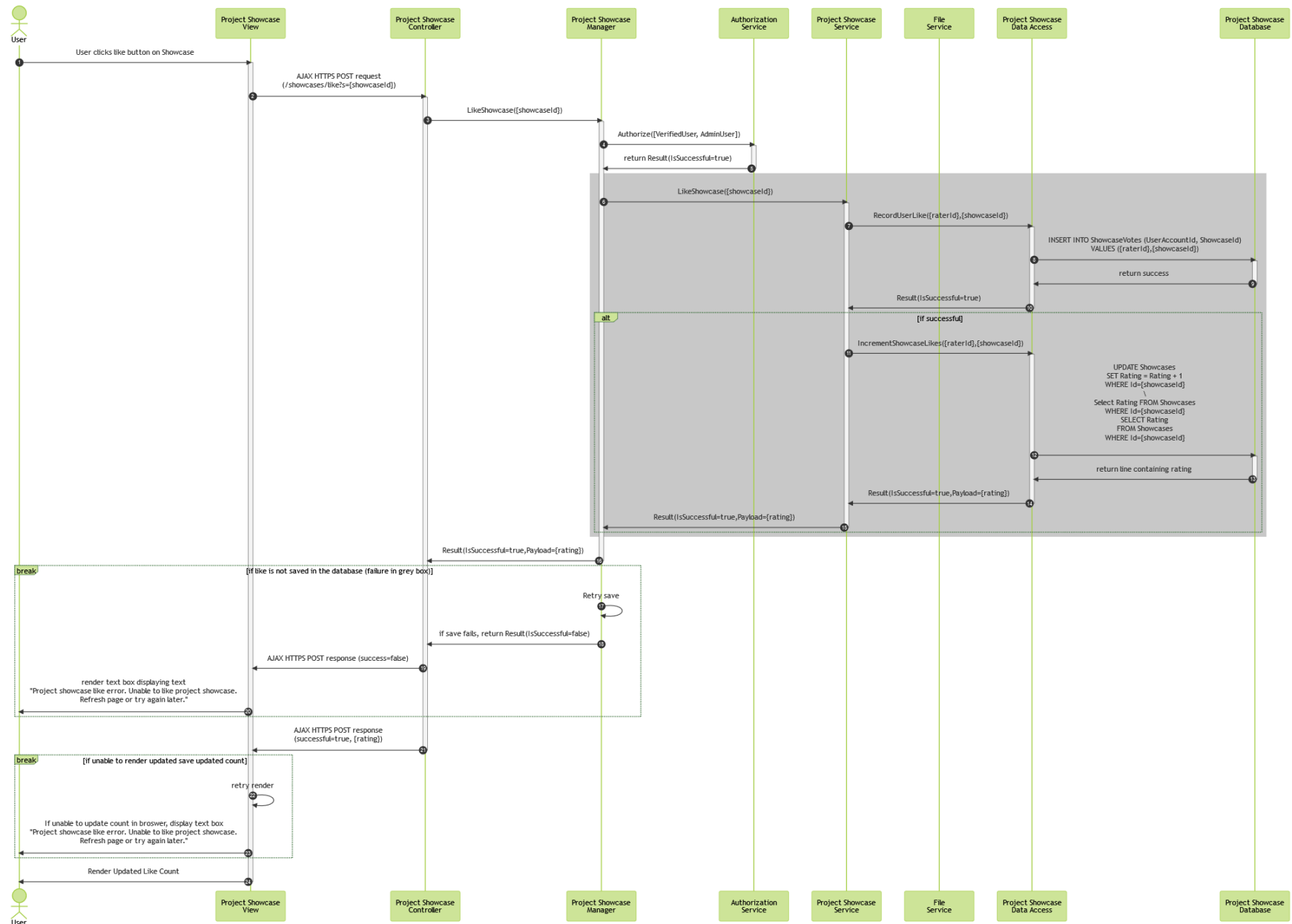
3. Create Project Showcase Draft



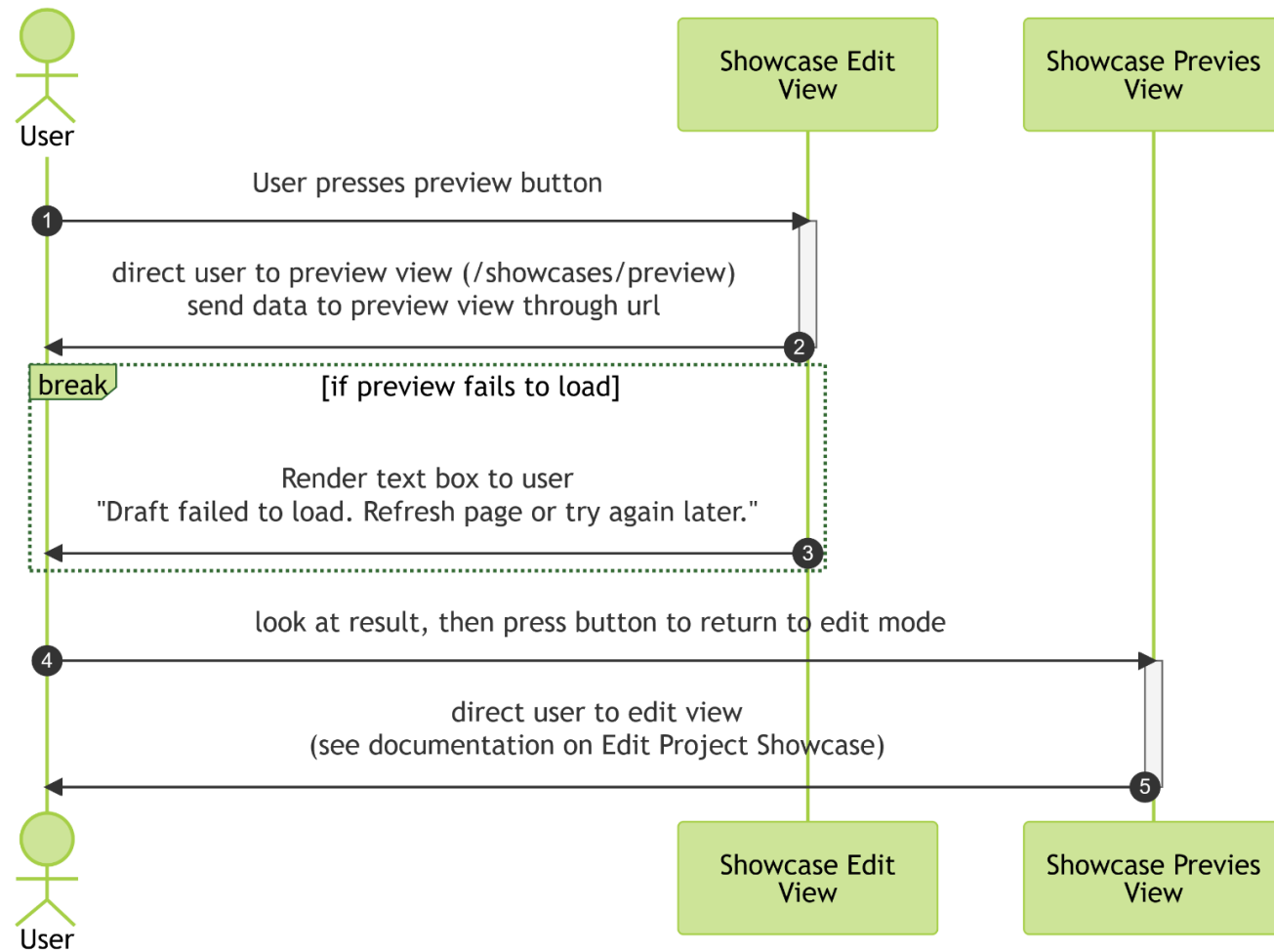
4. Edit Drafted Project Show



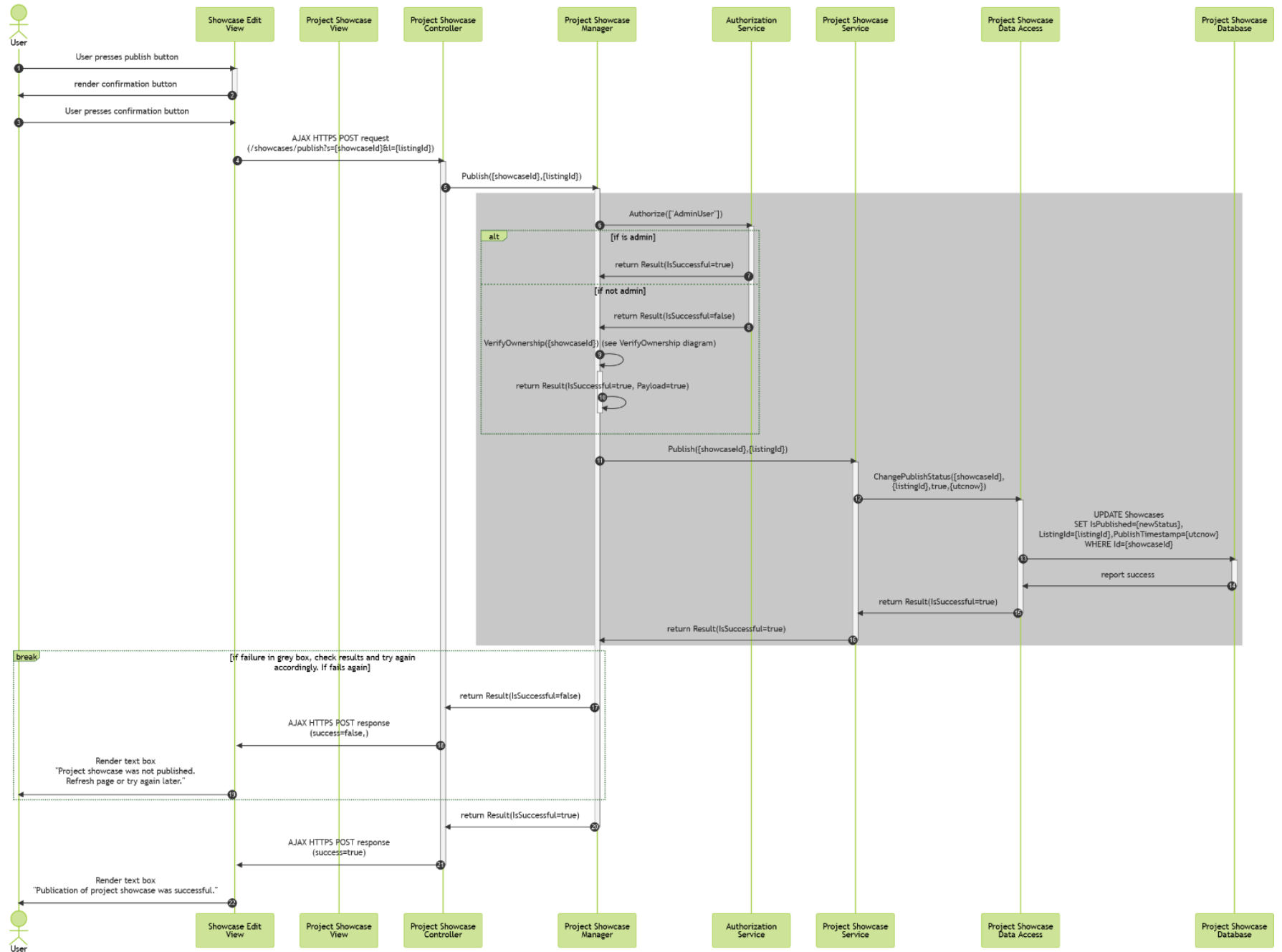
5. Remove Drafted Project Showcase



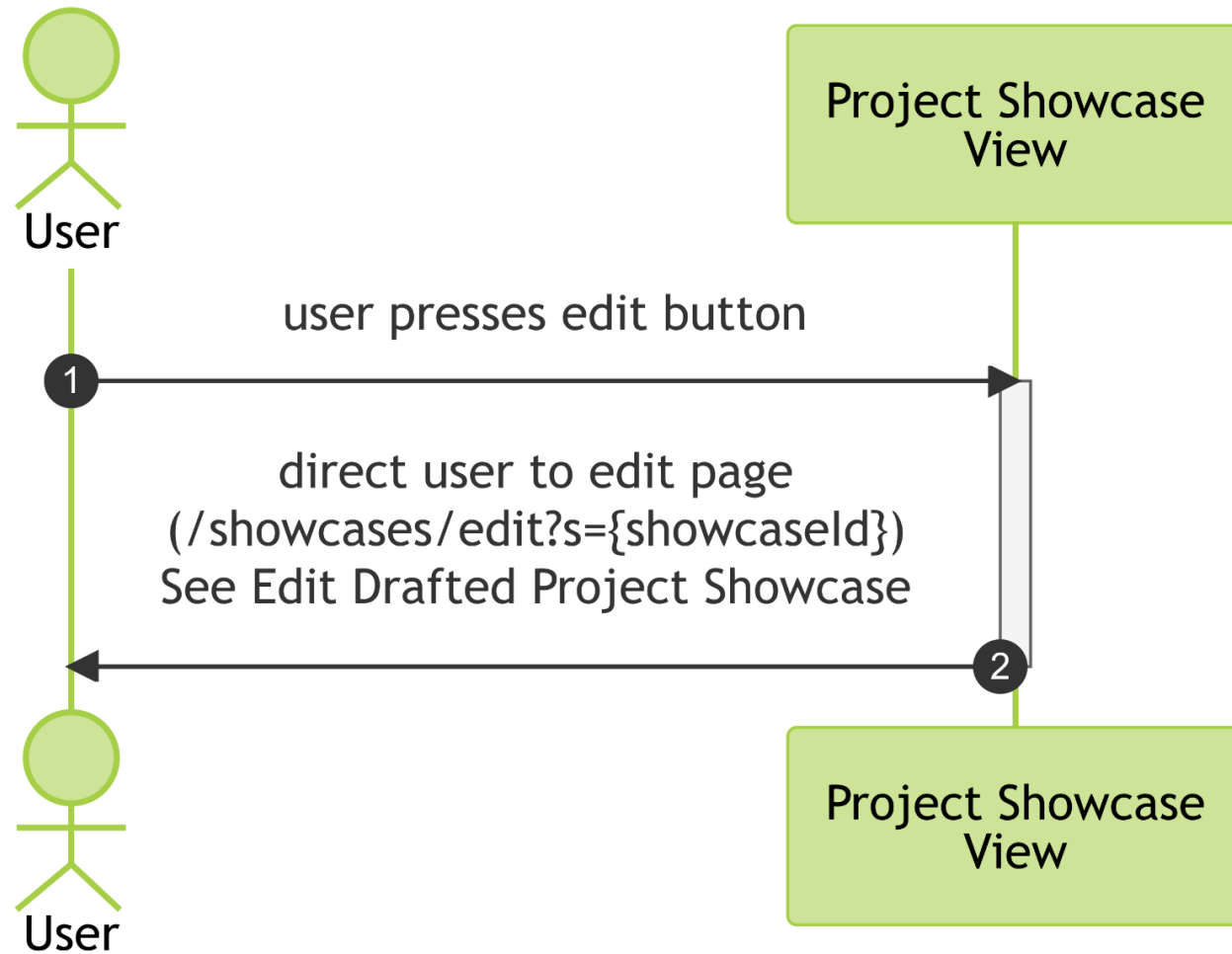
6. Preview Drafted Project Showcase



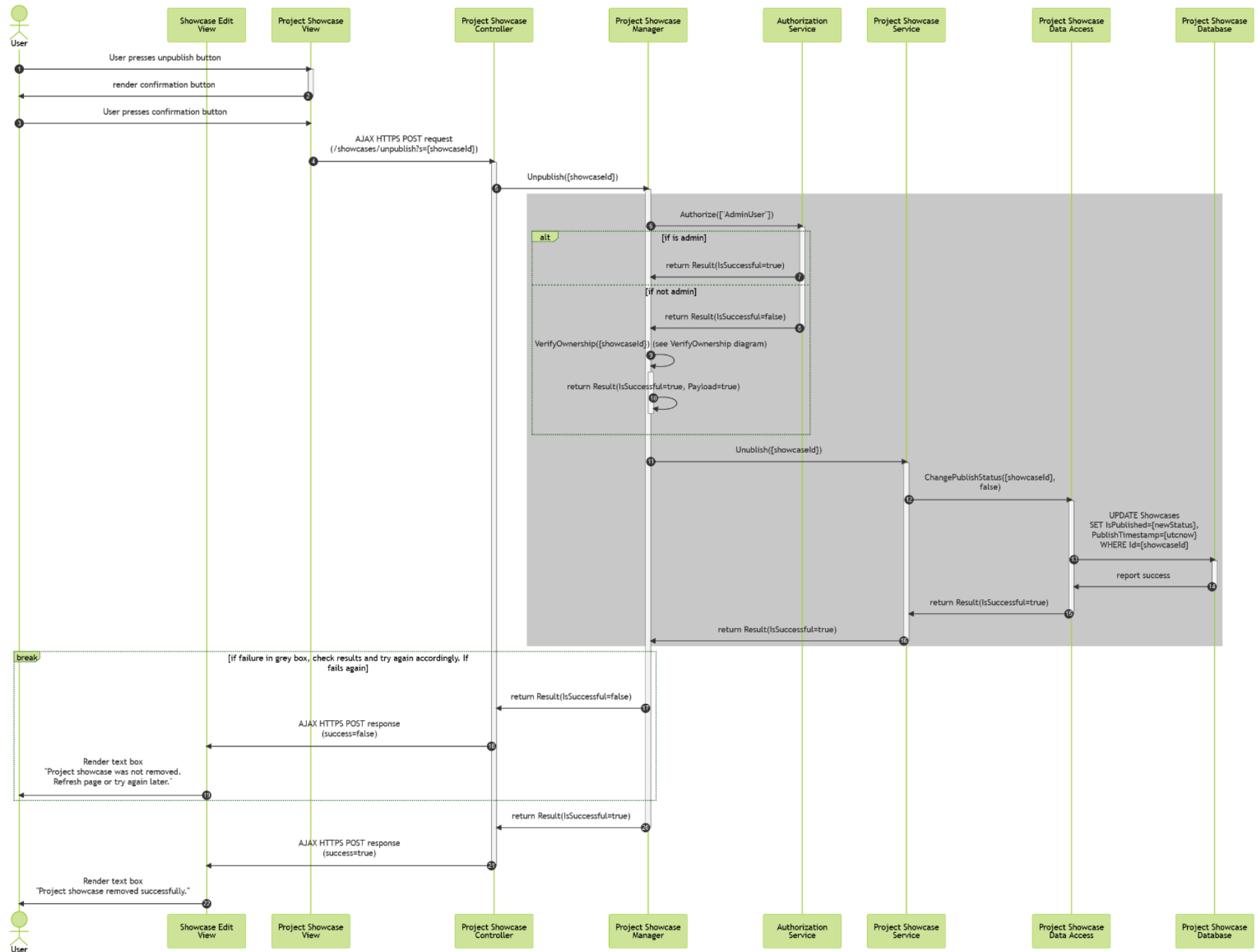
7. Publish Drafted Project Showcase



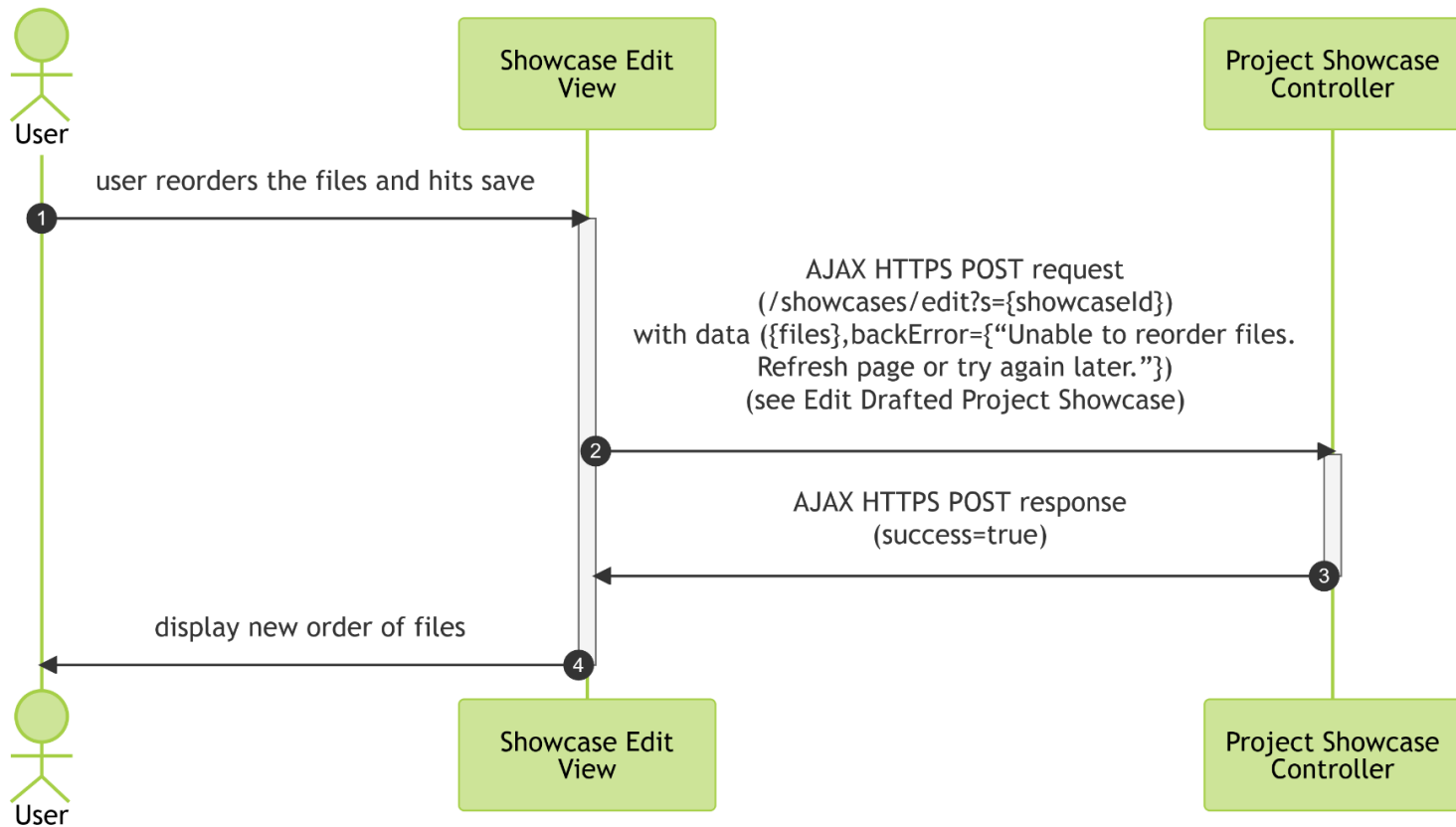
8. Edit Published Project Showcase



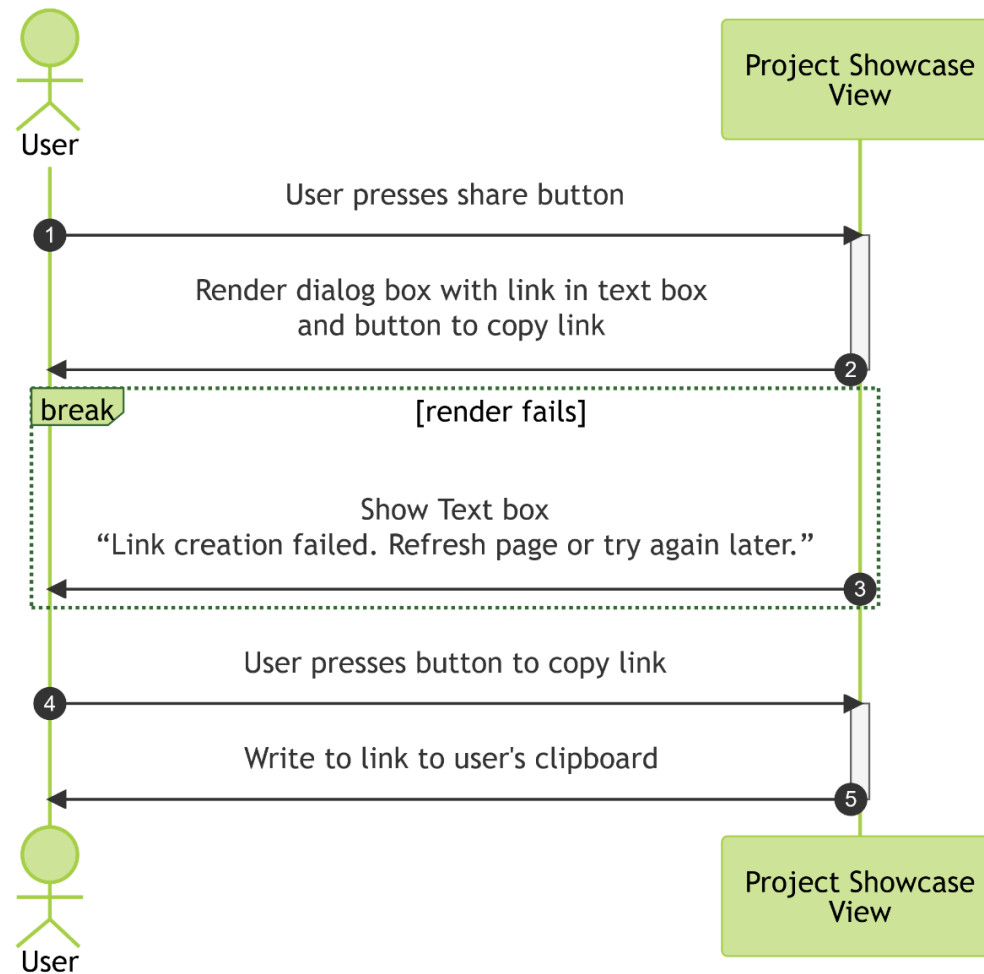
9. Remove Published Project Showcase



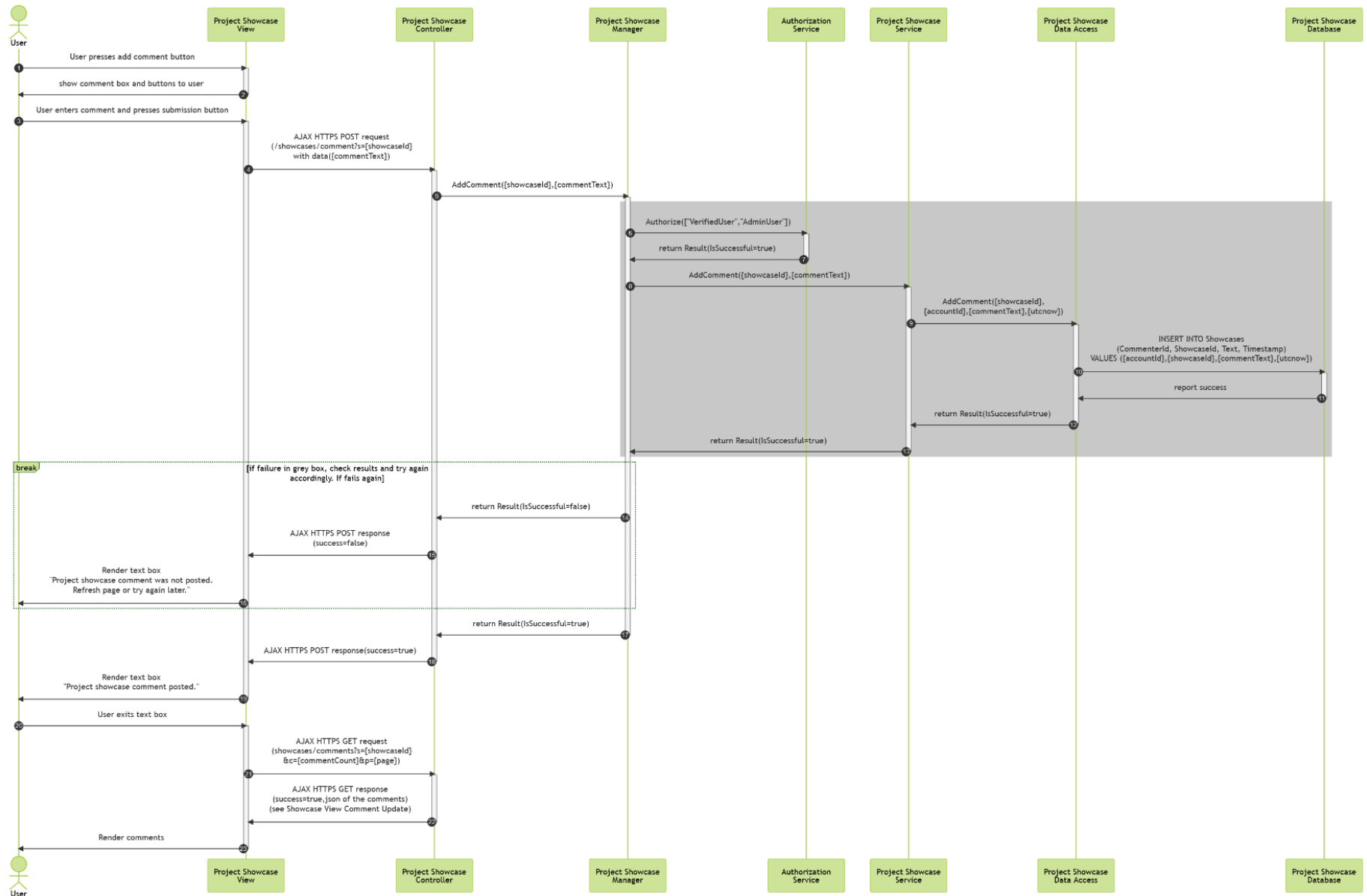
10. Reorder Attached Files in Project Showcase



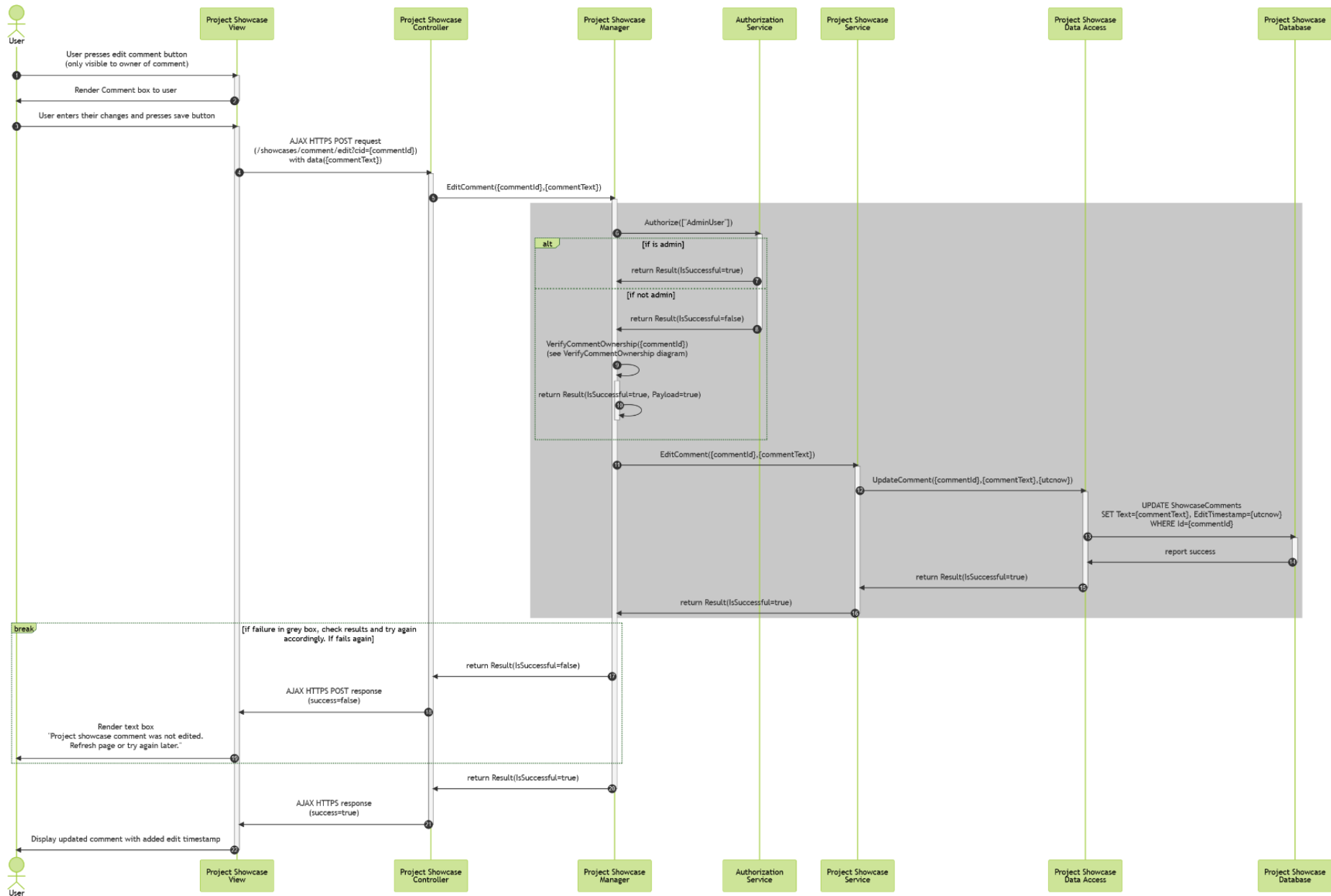
11. Share Project Showcase Link



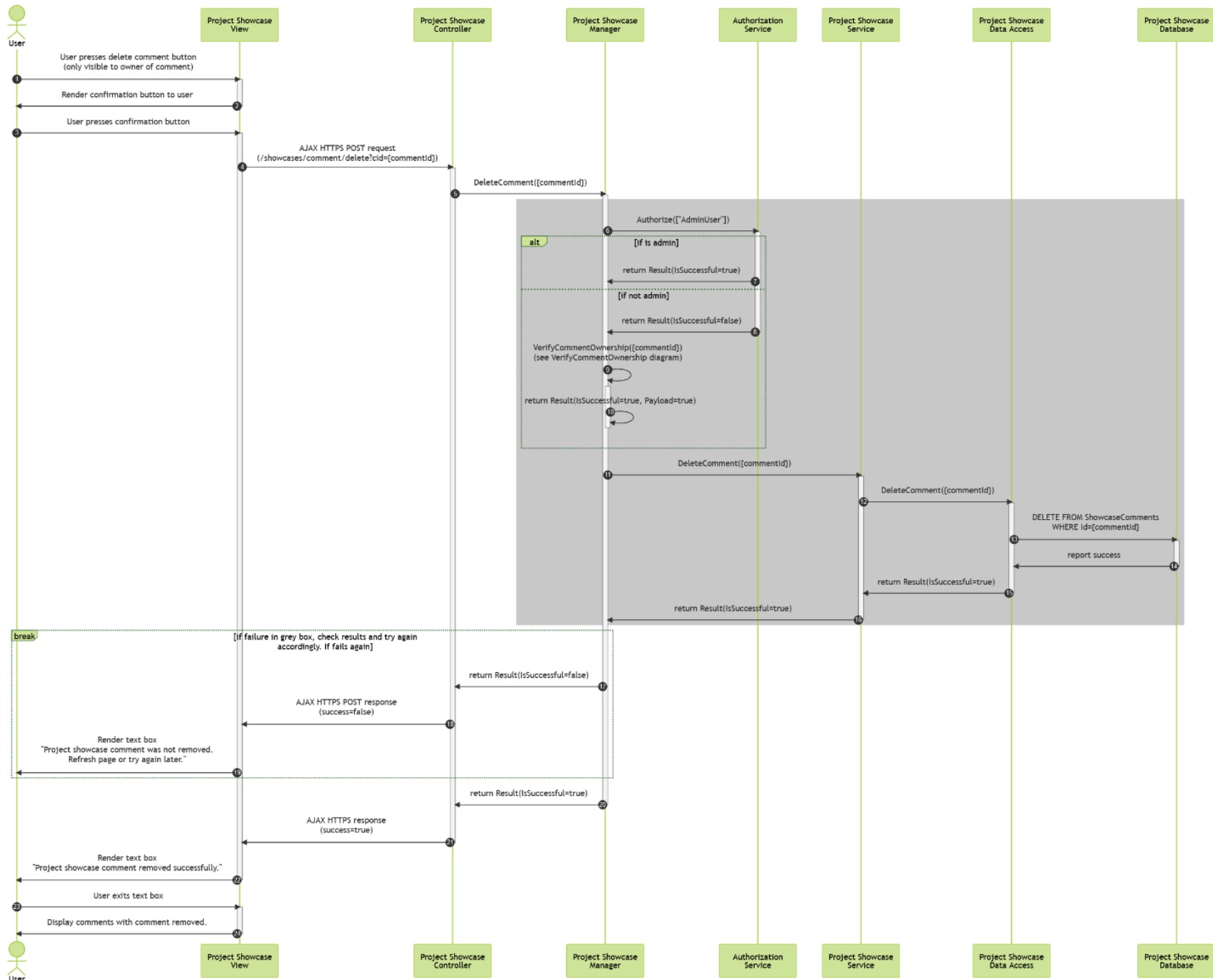
12. Post Project Showcase Comment



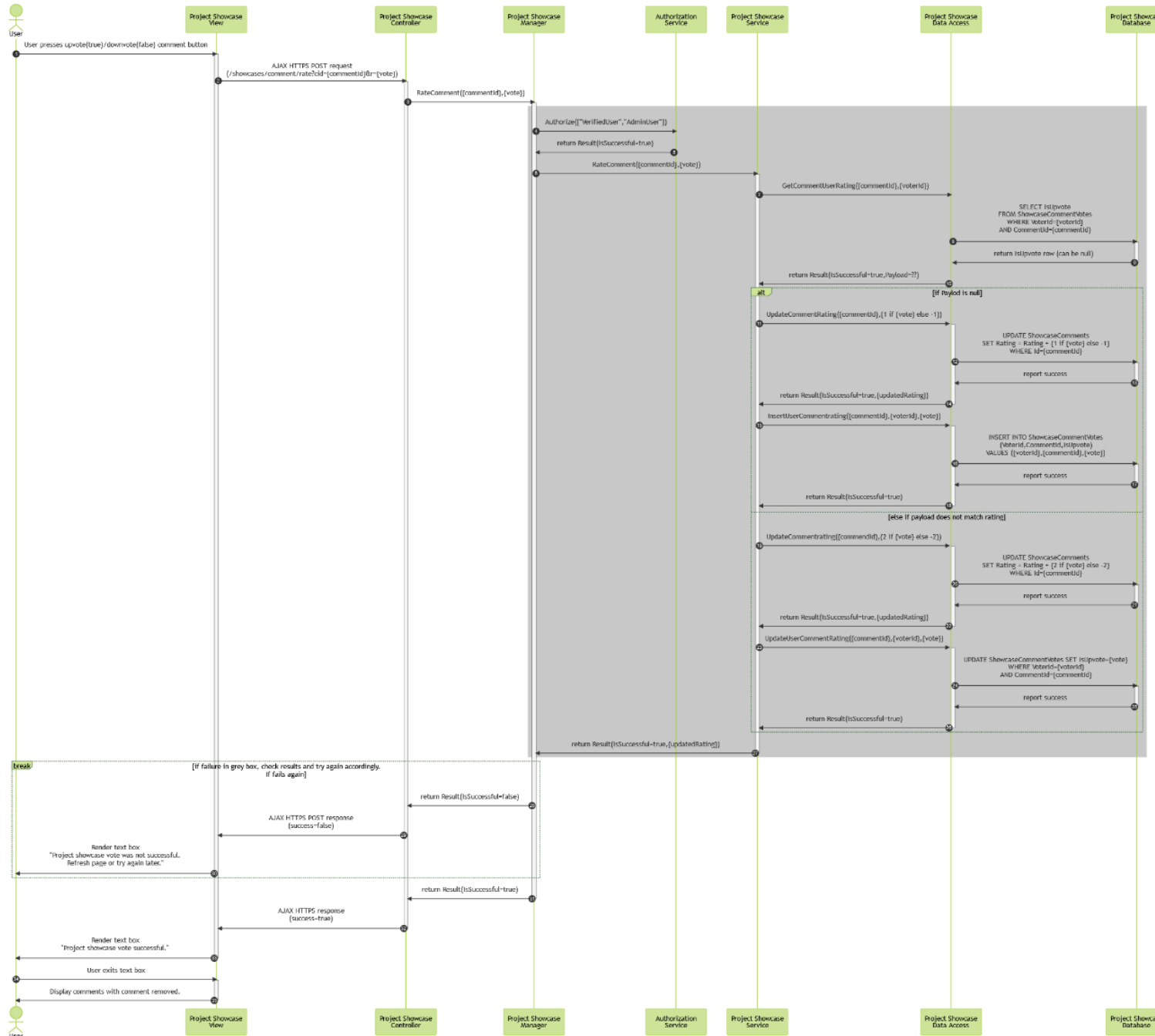
13. Edit Project Showcase Comment



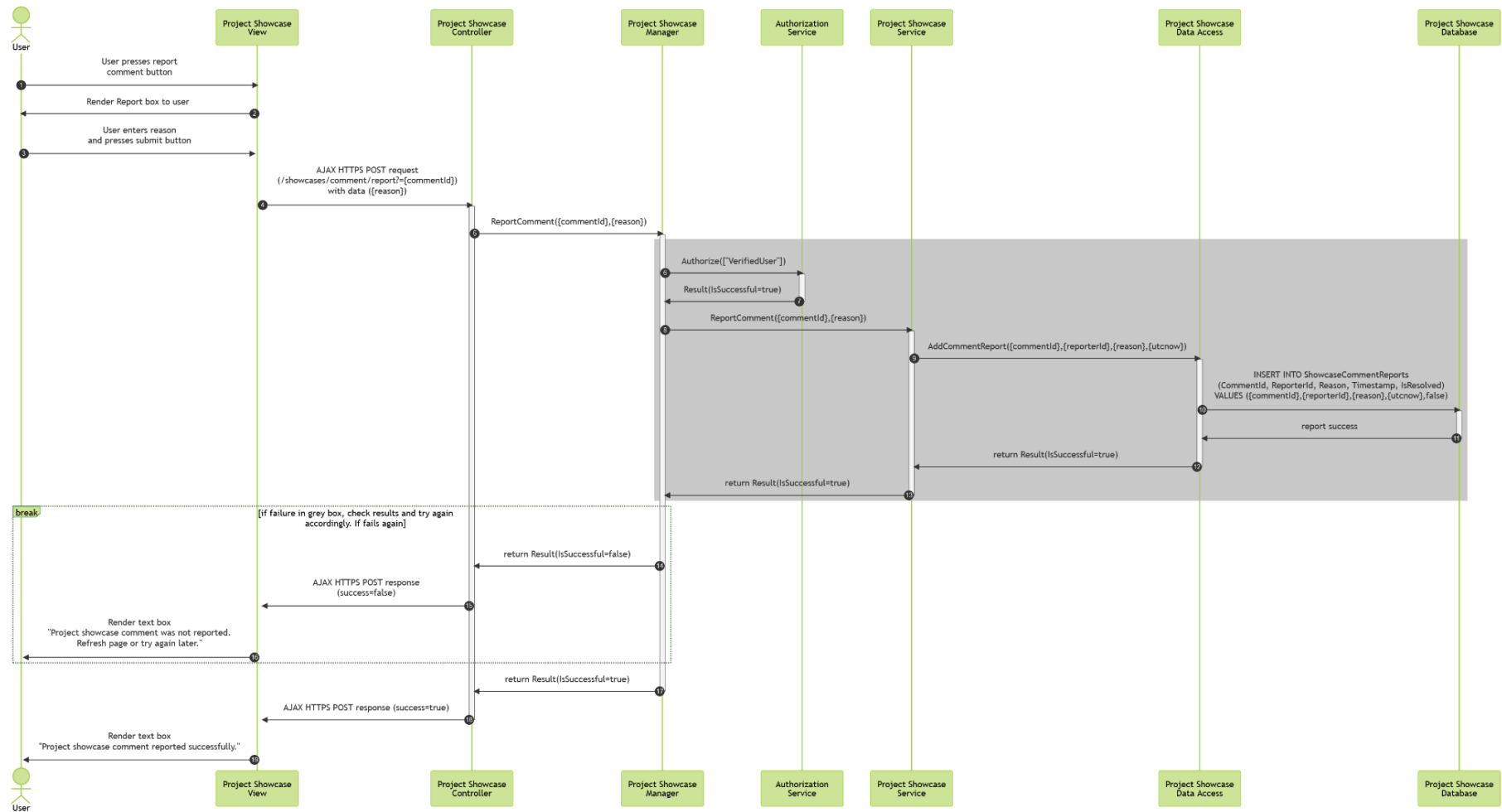
14. Remove Project Showcase Comment



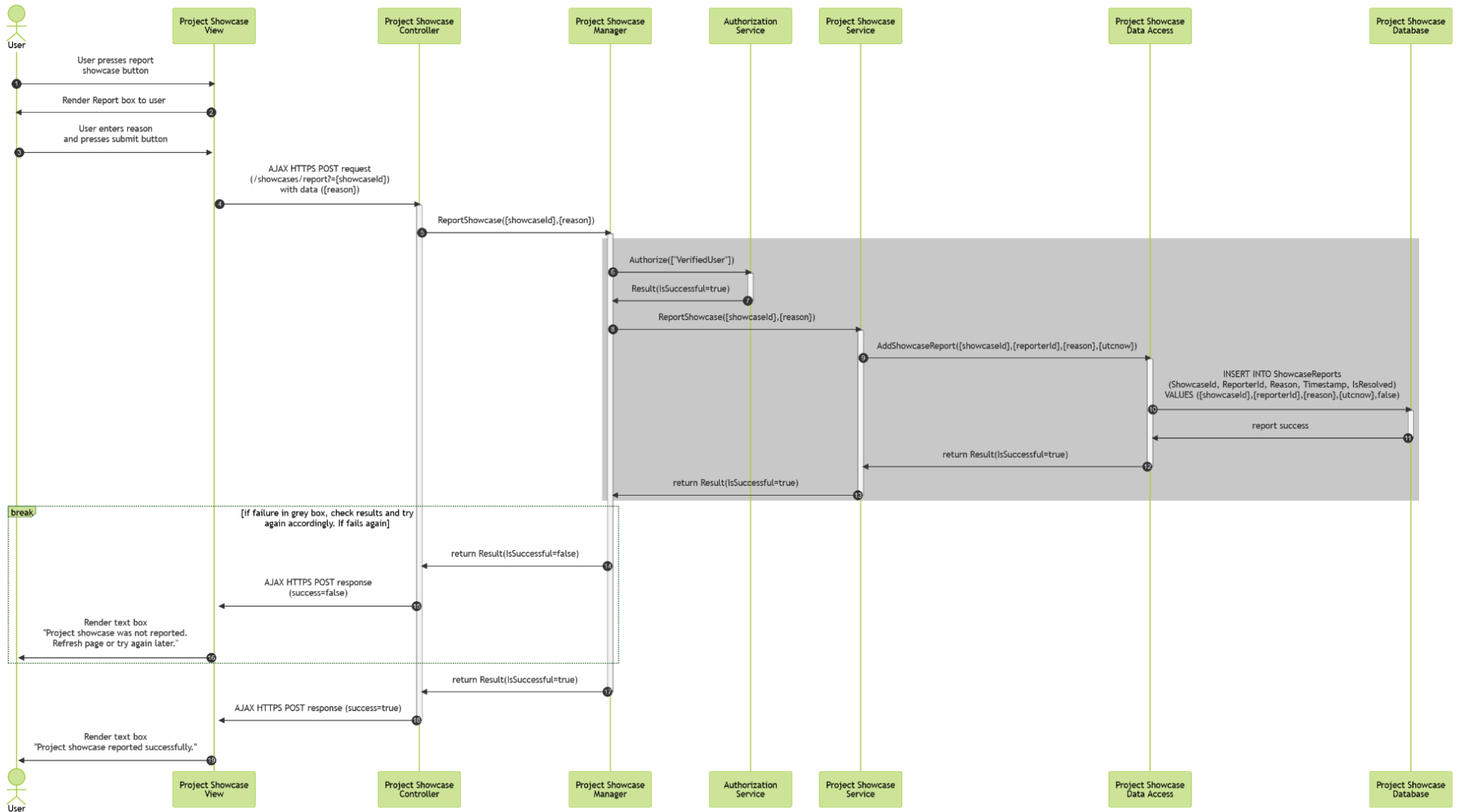
15. Vote on Project Showcase Comment



16. Report Project Showcase Comment



17. Report Project Showcase



18. Unlink Project From Project Showcase

