

Team Big Data

U-tification

High Level Design

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Git Repository: <https://github.com/JosephArmas/cecs-491A-Team-Big-Data>

Version History

Current Version: V2

- **CHANGES**
 - **Table of content**
 - Included added user stories
 - **Architecture Design**
 - Flipped landscape
 - **Sequence Diagram**
 - Removed
 - User Story 13. User wants to gain/lose reputation
 - Modified
 - User Story 6. User wants to create or modify/delete event
 - User Story 9. User want to modify or delete pin
 - User Story 10. User wants list of services
 - User Story 11. User creates, modify, or delete services
 - User Story 12. User wants alert
 - Added
 - User Story 13. User rates pin
 - User Story 14. Users gaining/losing reputation
 - User Story 15. User wants to check their reputation
 - User Story 16. Regular user become reputable user
 - User Story 17. User wants to be a service user

Previous Versions: V1

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15. Sequence Diagram: User wants list of services
16. Sequence Diagram: User create, modify, or delete services
17. Sequence Diagram: User wants alerts
18. Sequence Diagram: User rates a pin
19. Sequence Diagram: User gaining/losing reputation
20. Sequence Diagram: User wants to check their reputation
21. Sequence Diagram: Regular user becomes reputable user
22. Sequence Diagram: User wants to be a service user

Front End

Browser - Allows users to interact with U-tification.

Back End

User Creation - Validates user input and creates a user type: Admin and Regular User.

Login / Logout - Validates user input and checks data stored for the user with the given credentials.

Data Store - Stores Data of user's interactions with Single Web Application

User Access Control - user interaction with features and store into data store

Map - user Fetch from Data store to show pins, services, events

Pins - user fetch from data store to list pins and interaction with pins

Alerts - user fetch from data store of preference alerts

Reputation - user fetch from data store to output reports, profile reputation

Services - user fetch from data store of listed services

Events - user fetch from data store of listed events

Authentication Check - user profile fetch from data store

Error Handling - Interact with features features to handle error

Security - check for bots and abnormal activity

Message format

REST : json

Protocol

HTTP

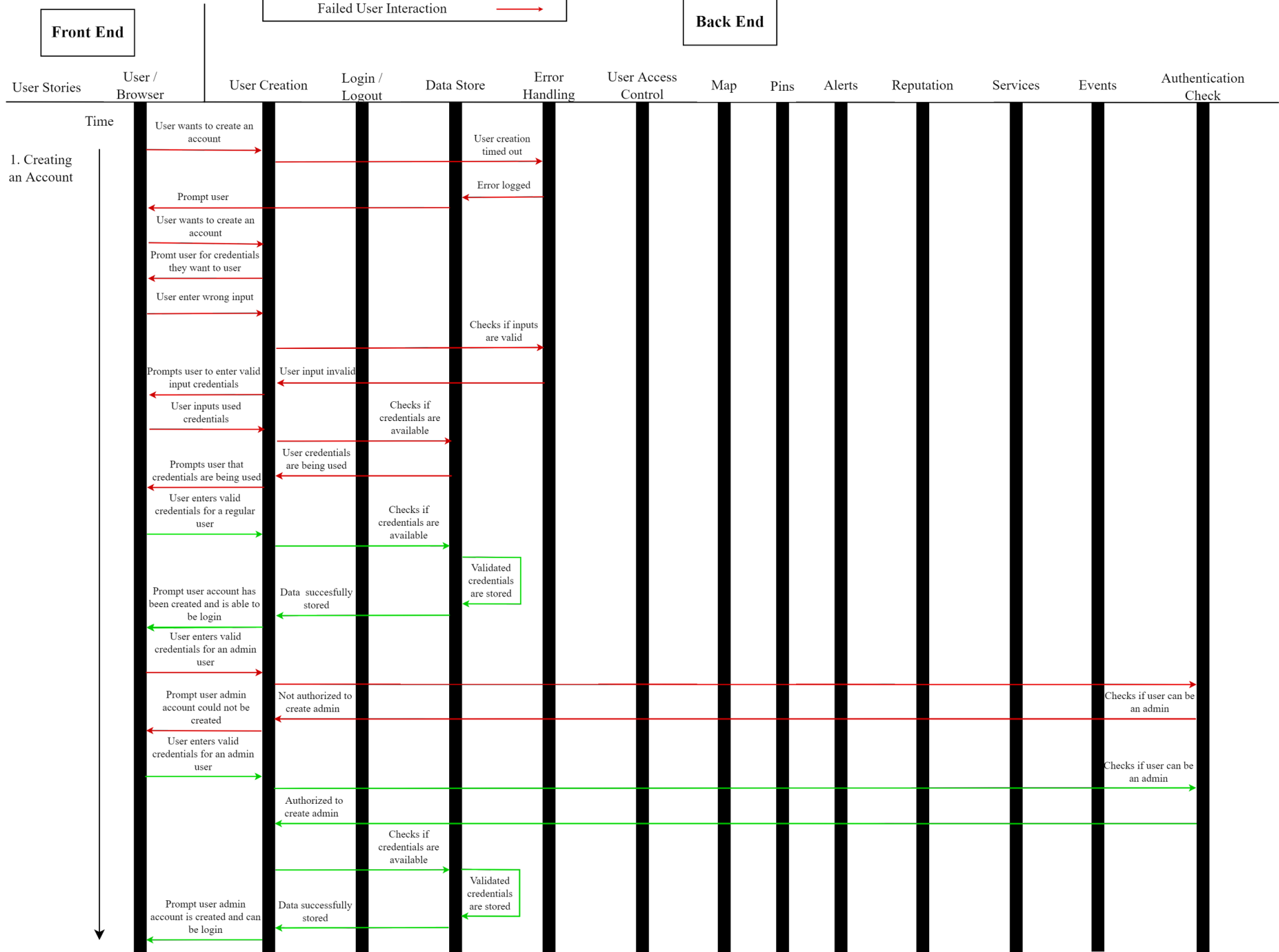
Design Architect

3 Tier Architect: UI, LOGIC, DATA

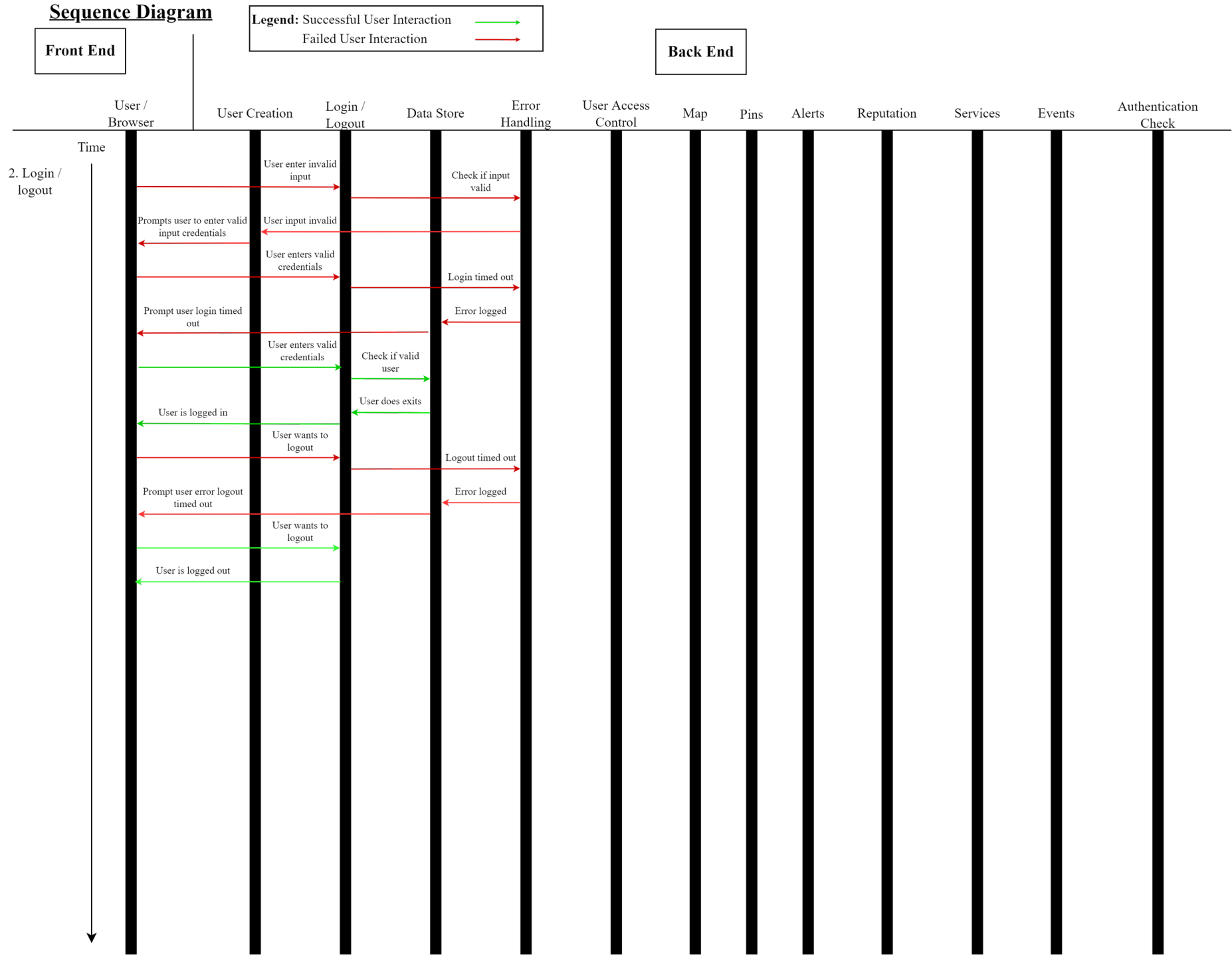


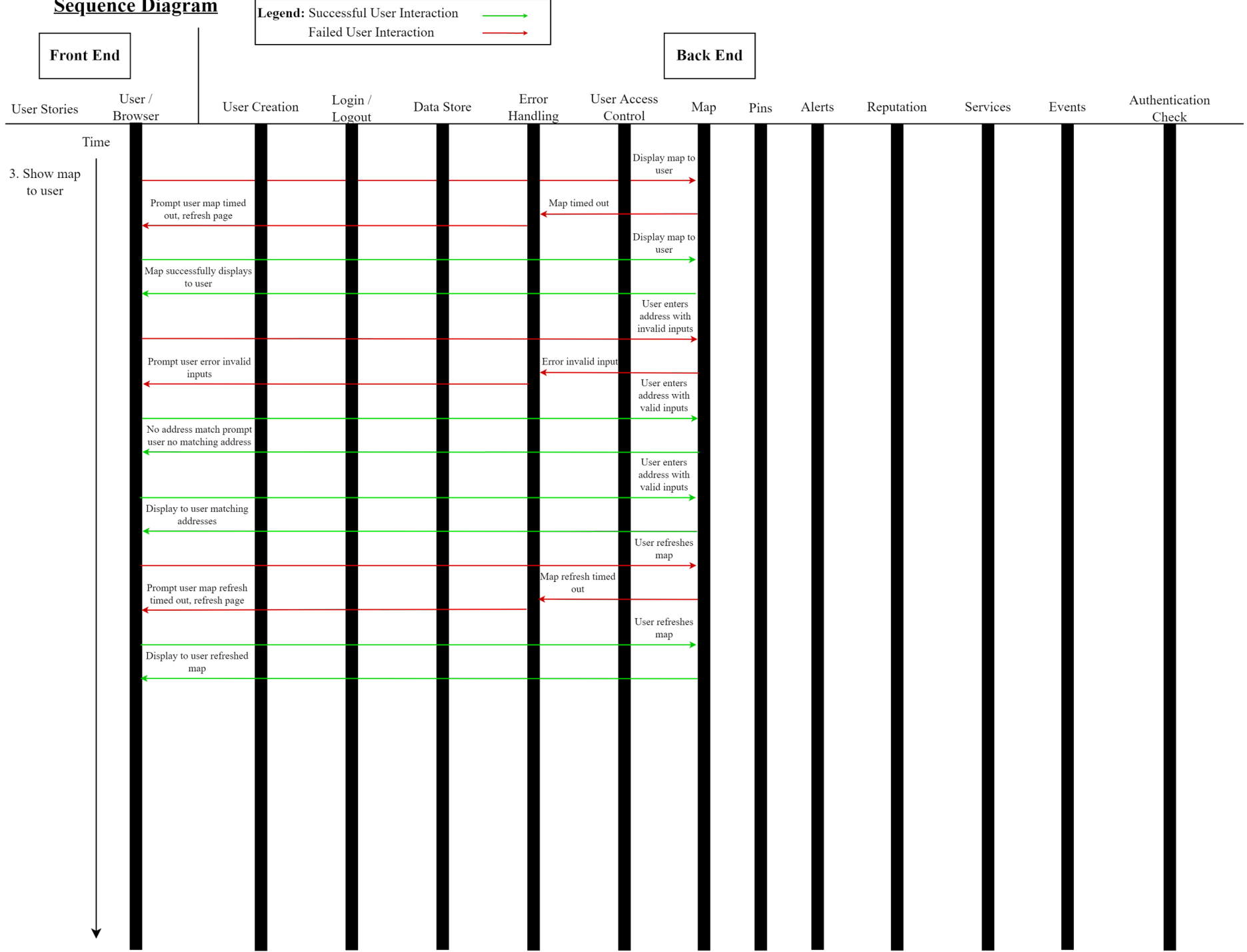
Sequence Diagram

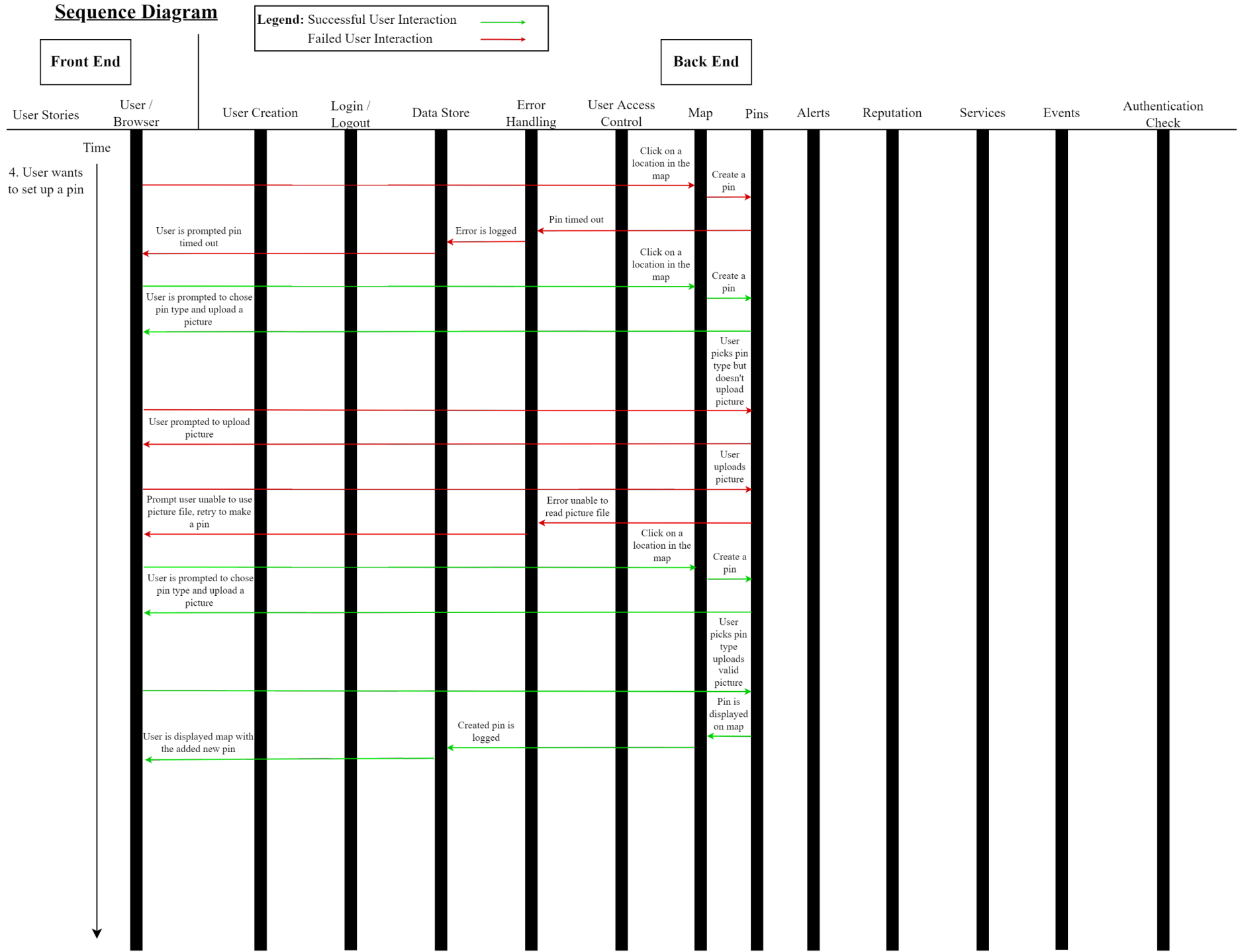
Legend: Successful User Interaction →
 Failed User Interaction →

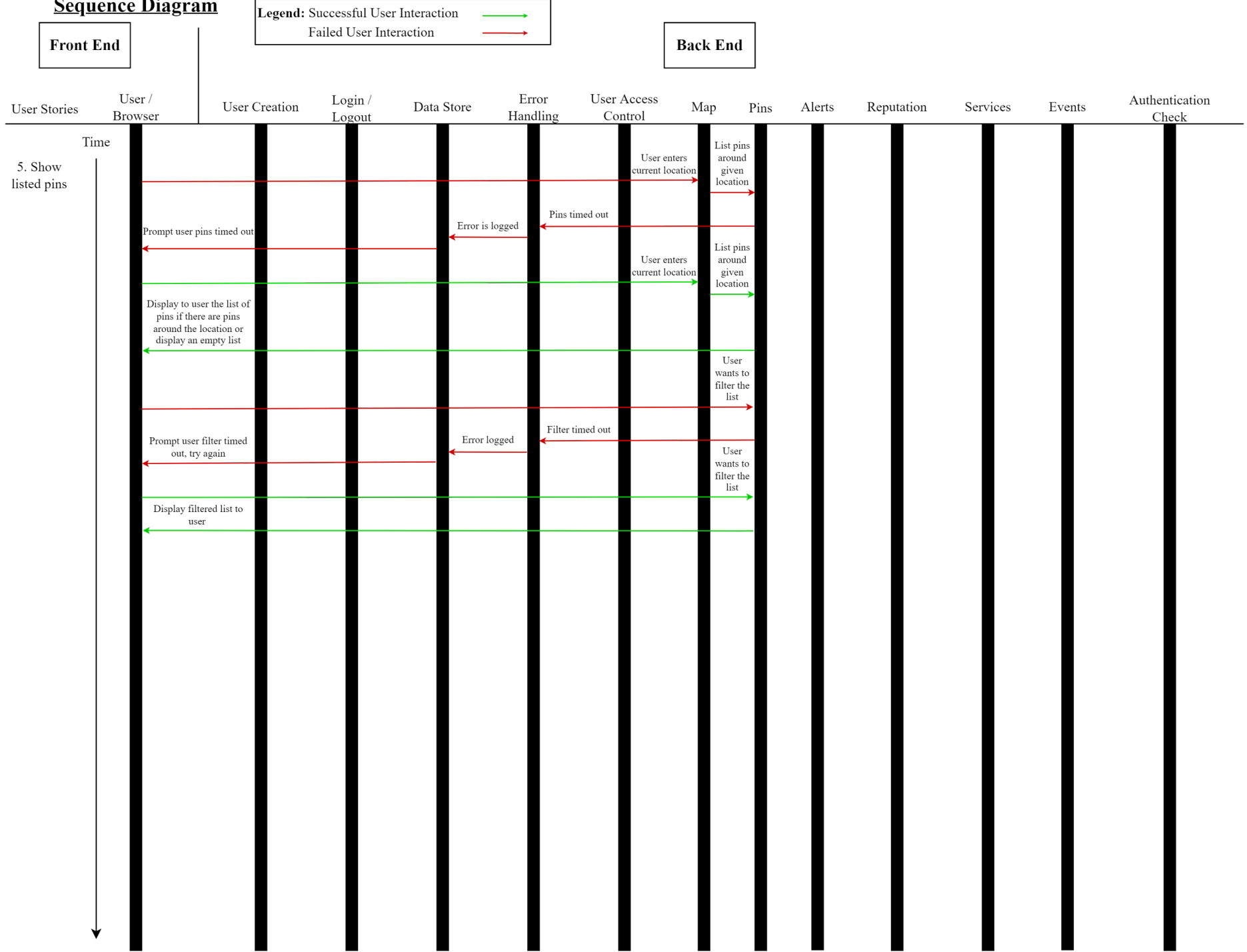
Back End

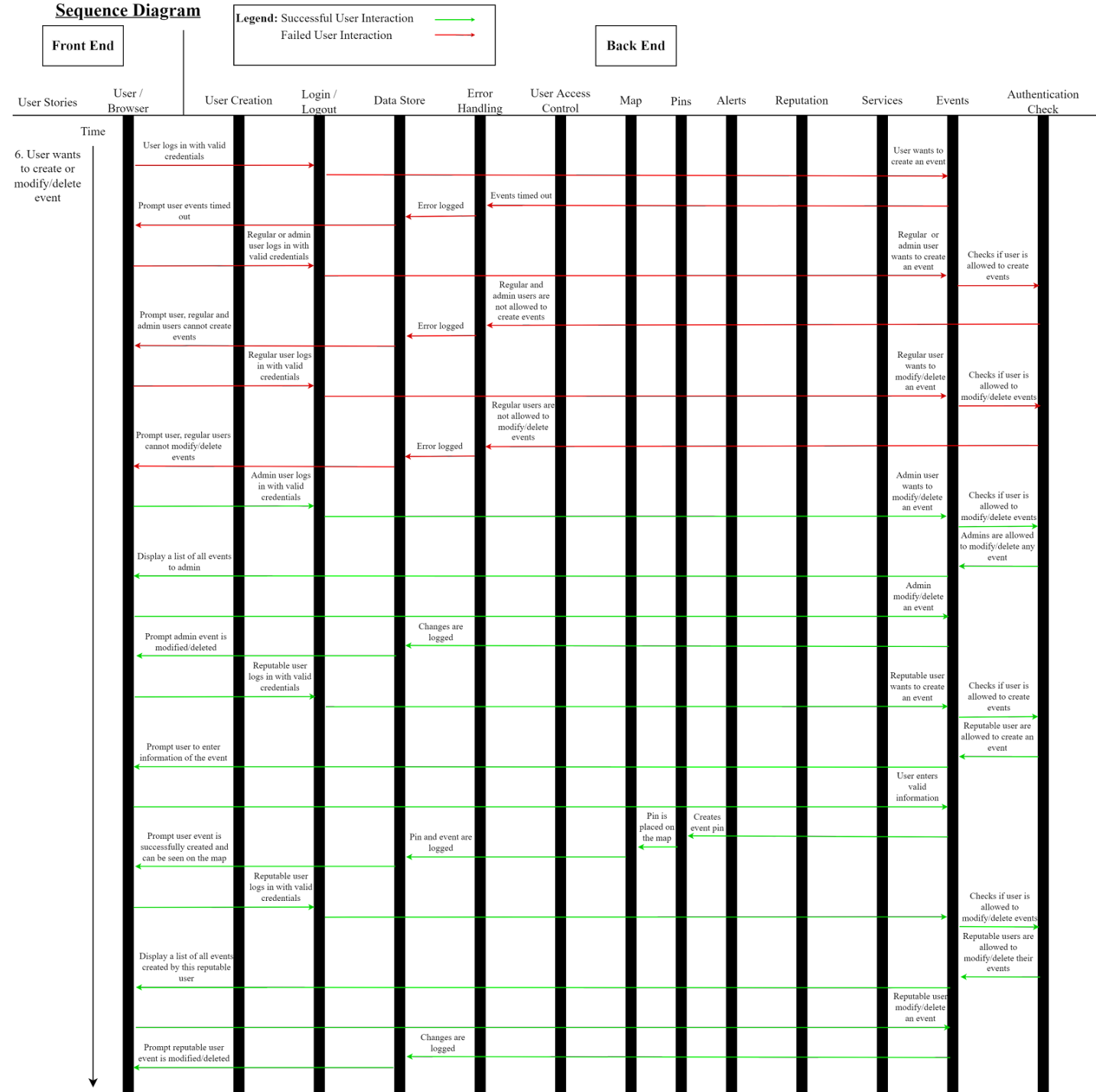
Sequence Diagram

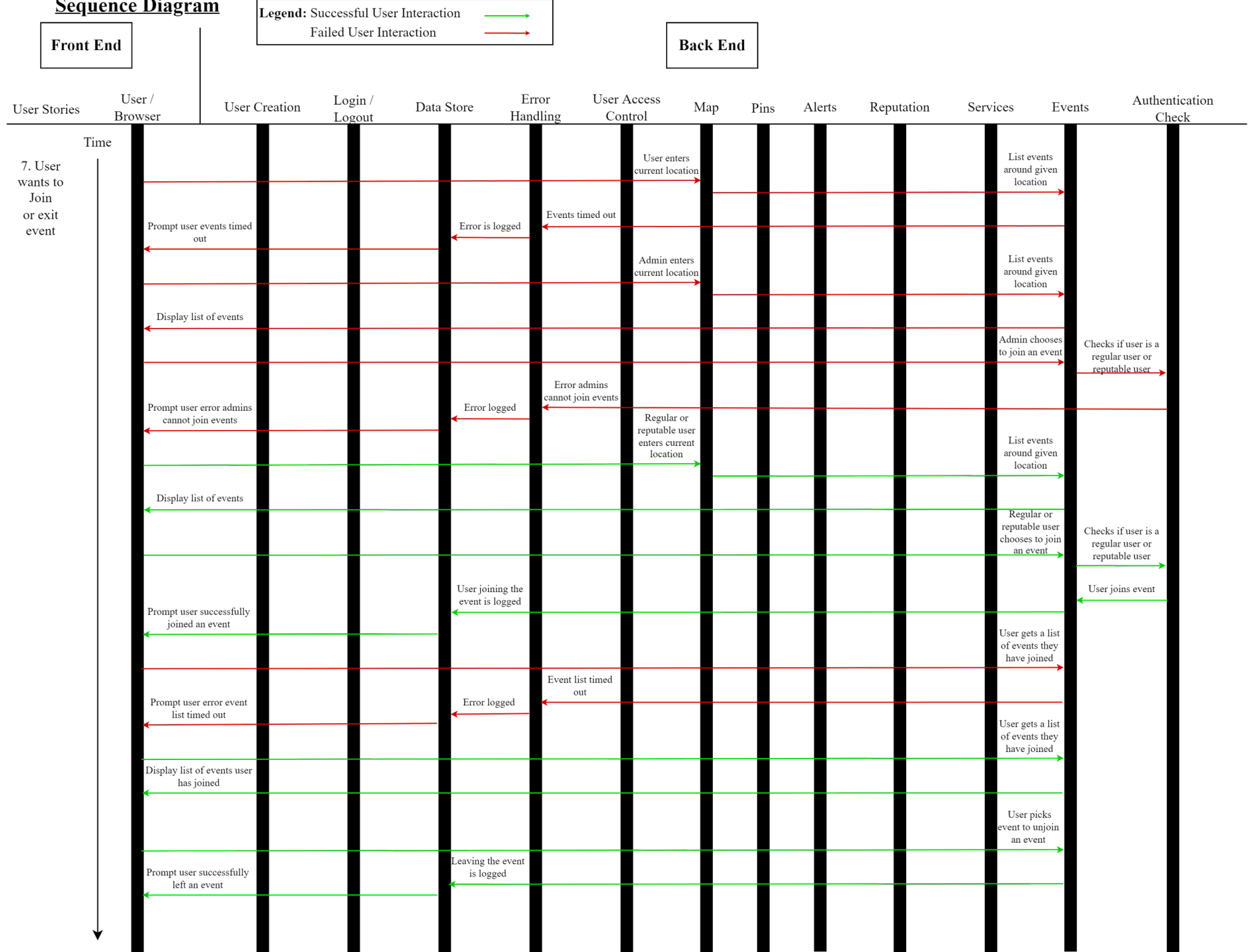


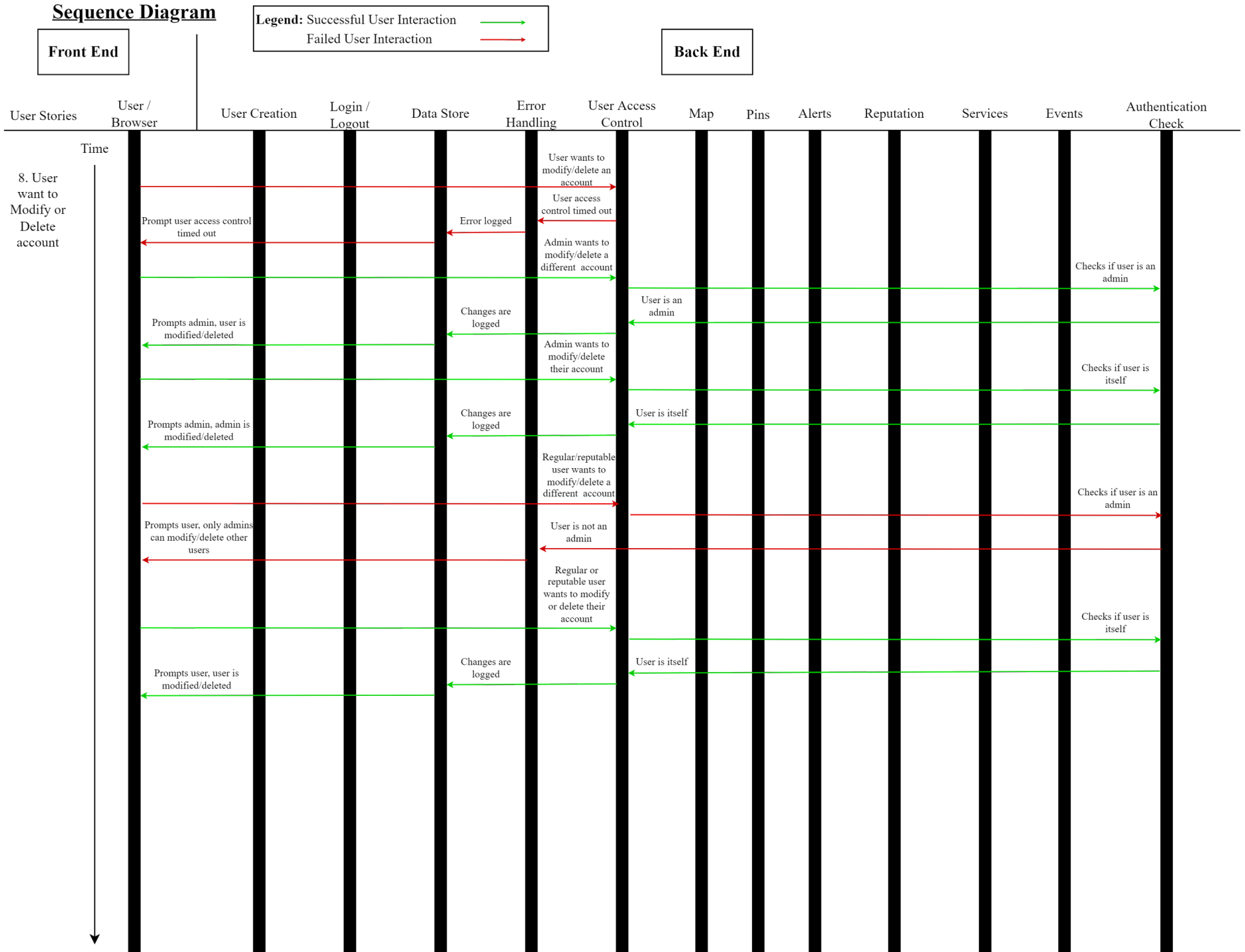
Sequence Diagram

Sequence Diagram

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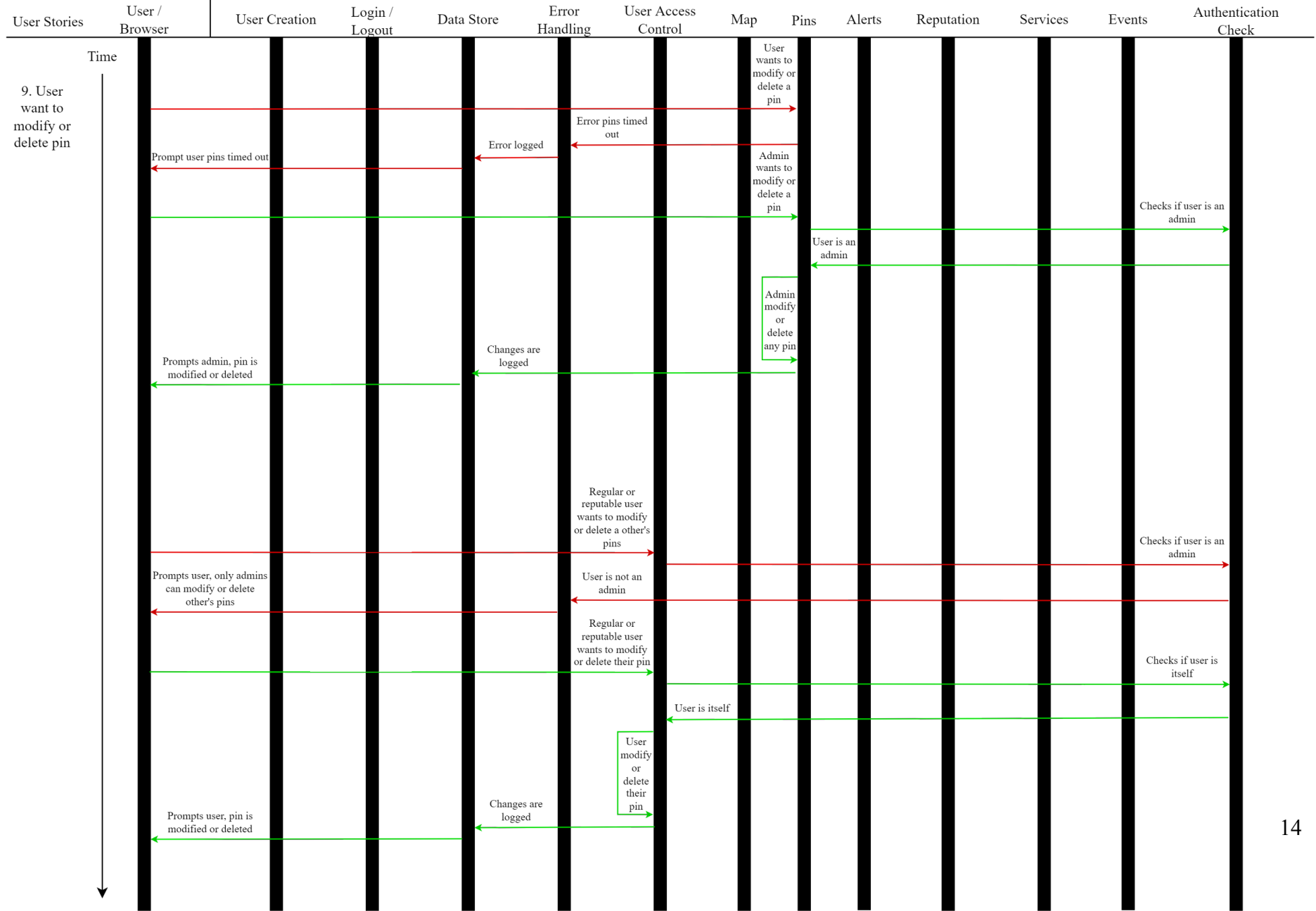


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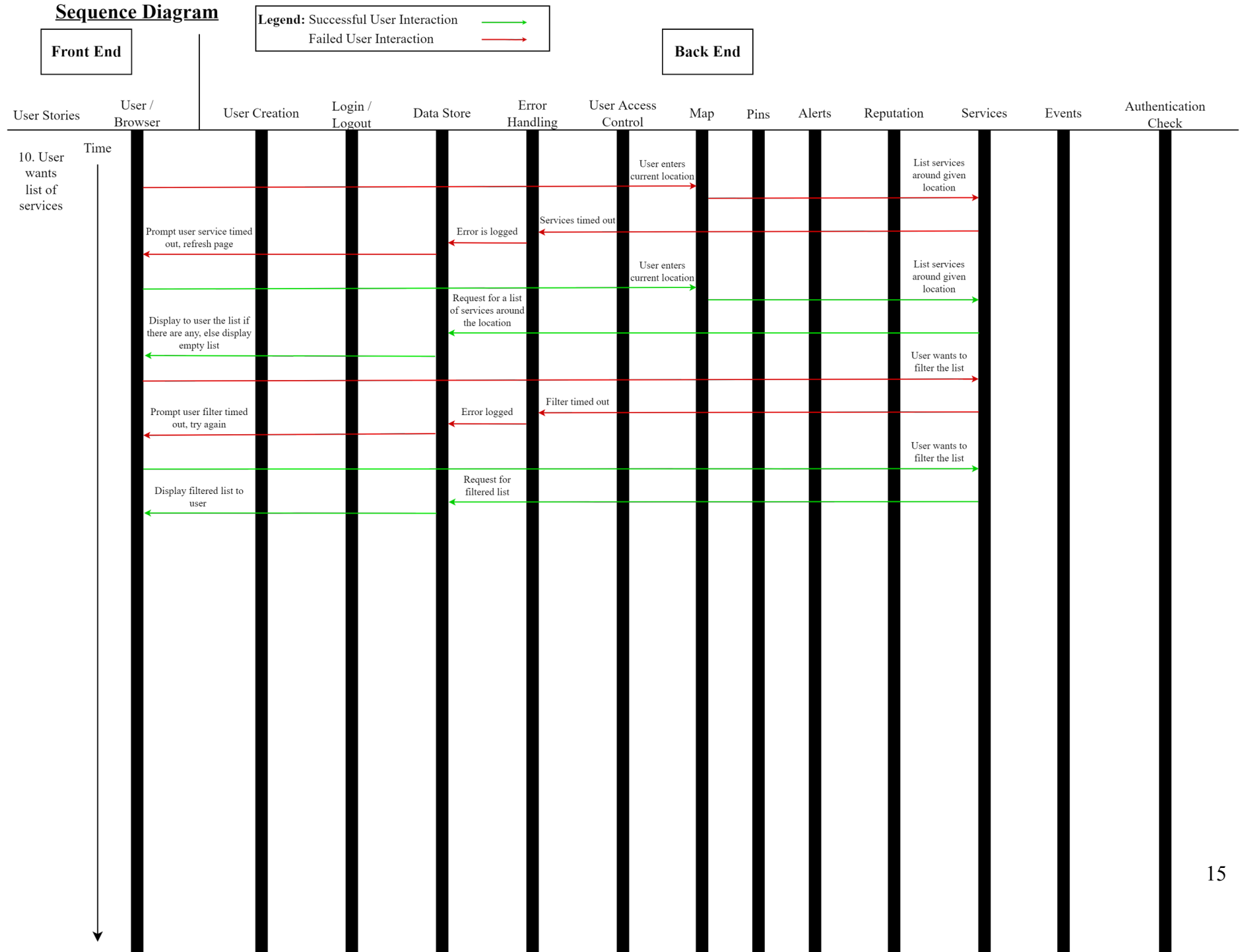
Sequence Diagram

Sequence Diagram**Front End****Legend:** Successful User Interaction

Failed User Interaction

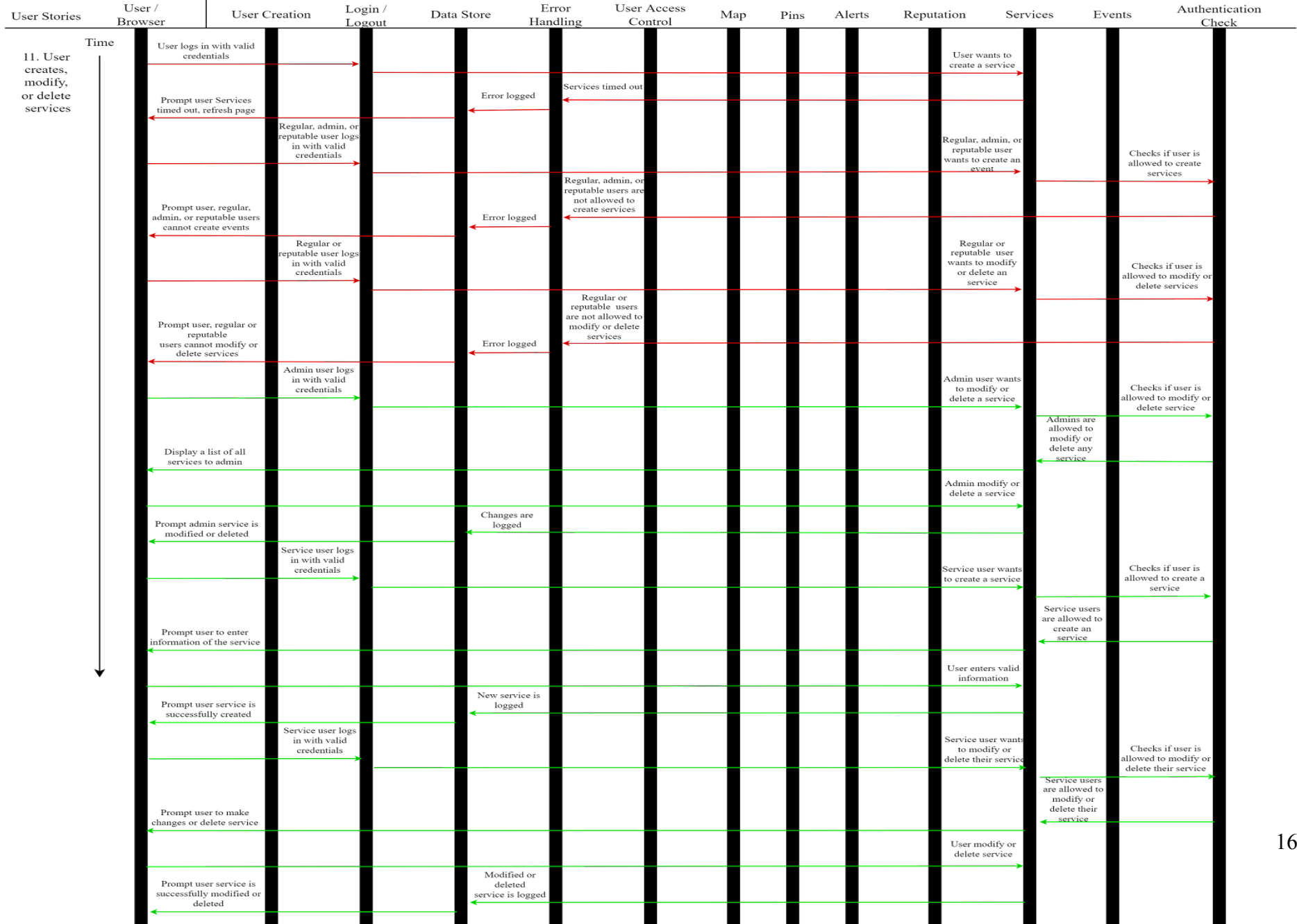
Back End

Sequence Diagram



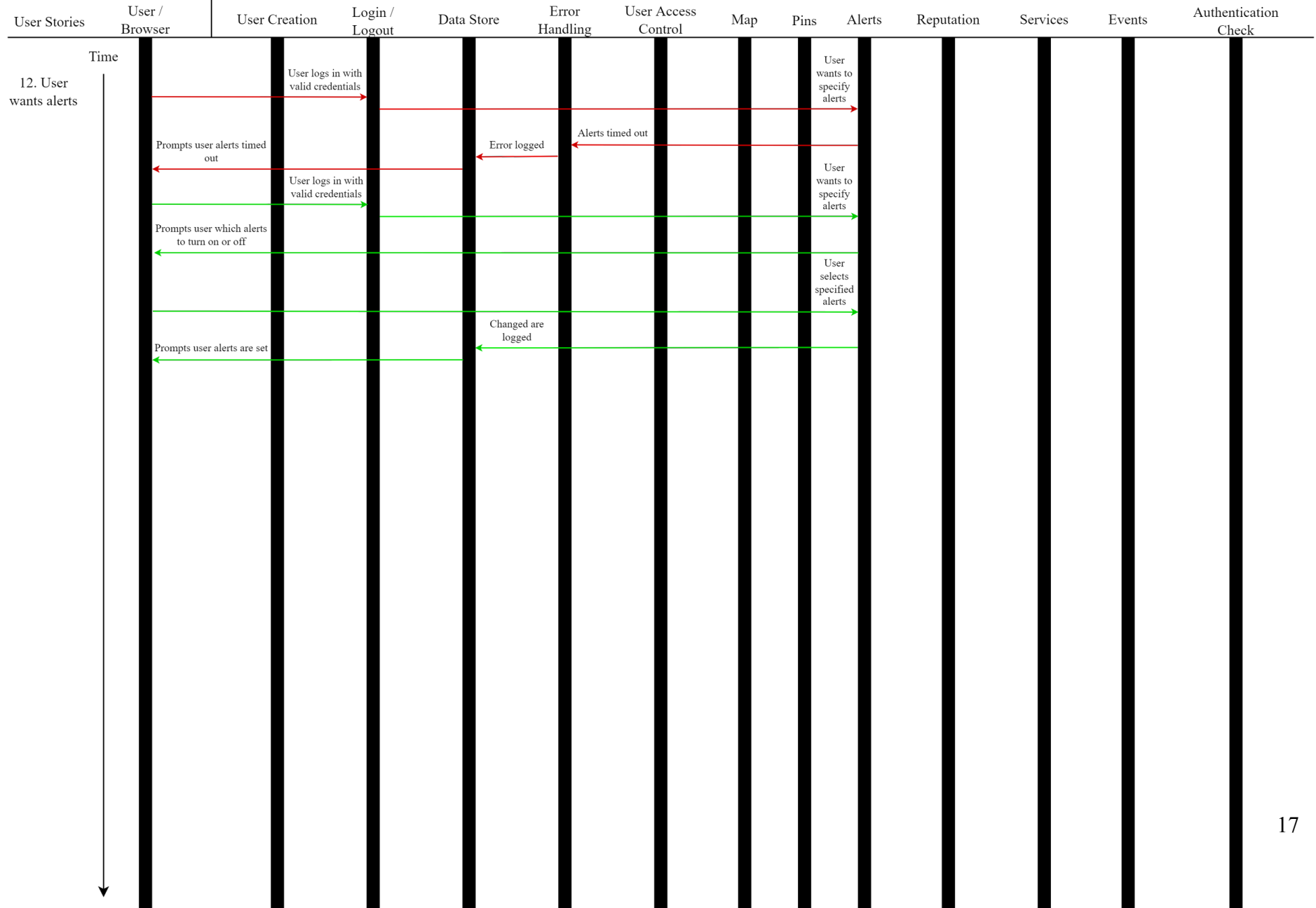
Sequence Diagram**Front End**

Legend: Successful User Interaction →
 Failed User Interaction →

Back End

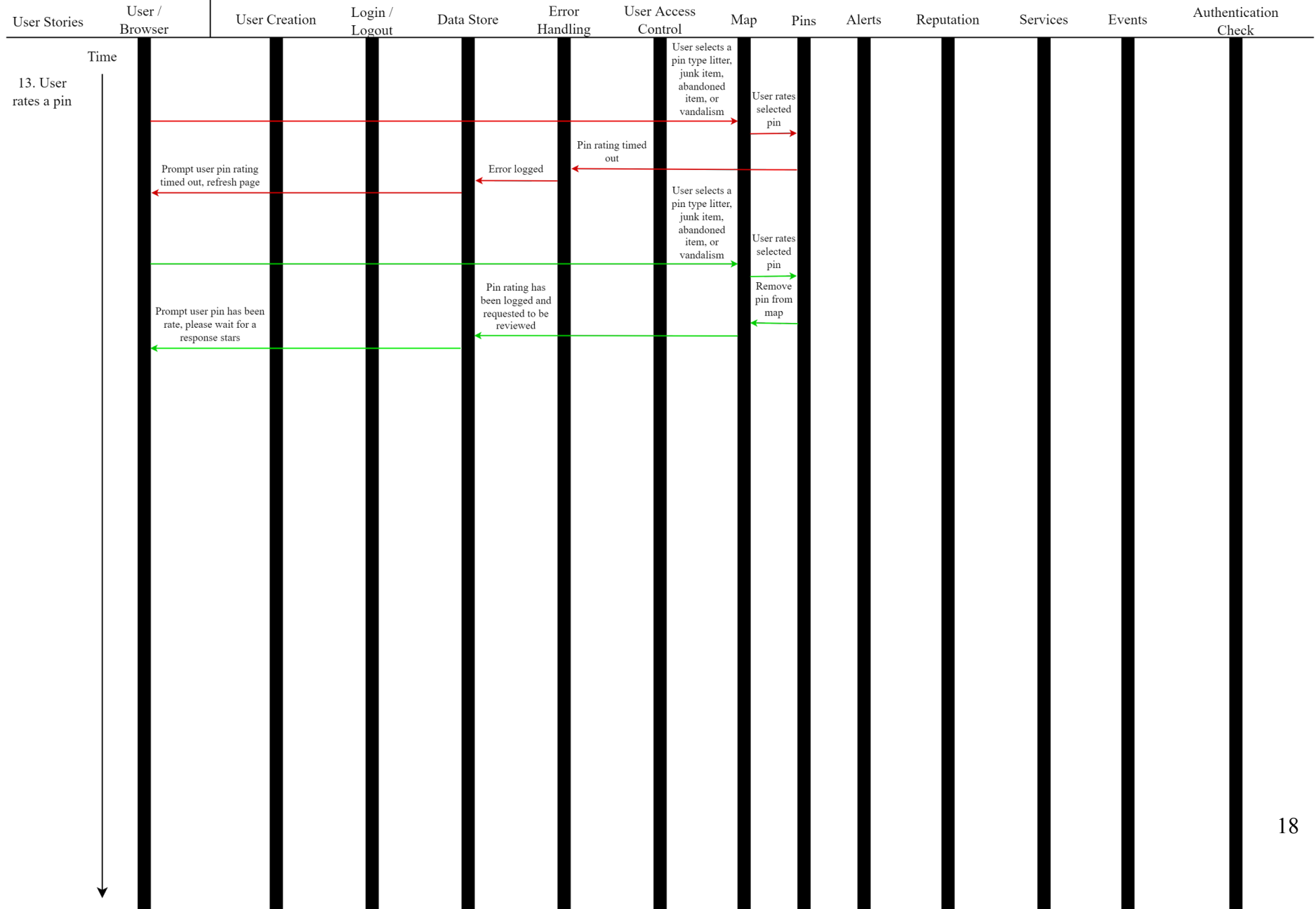
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Failed User Interaction

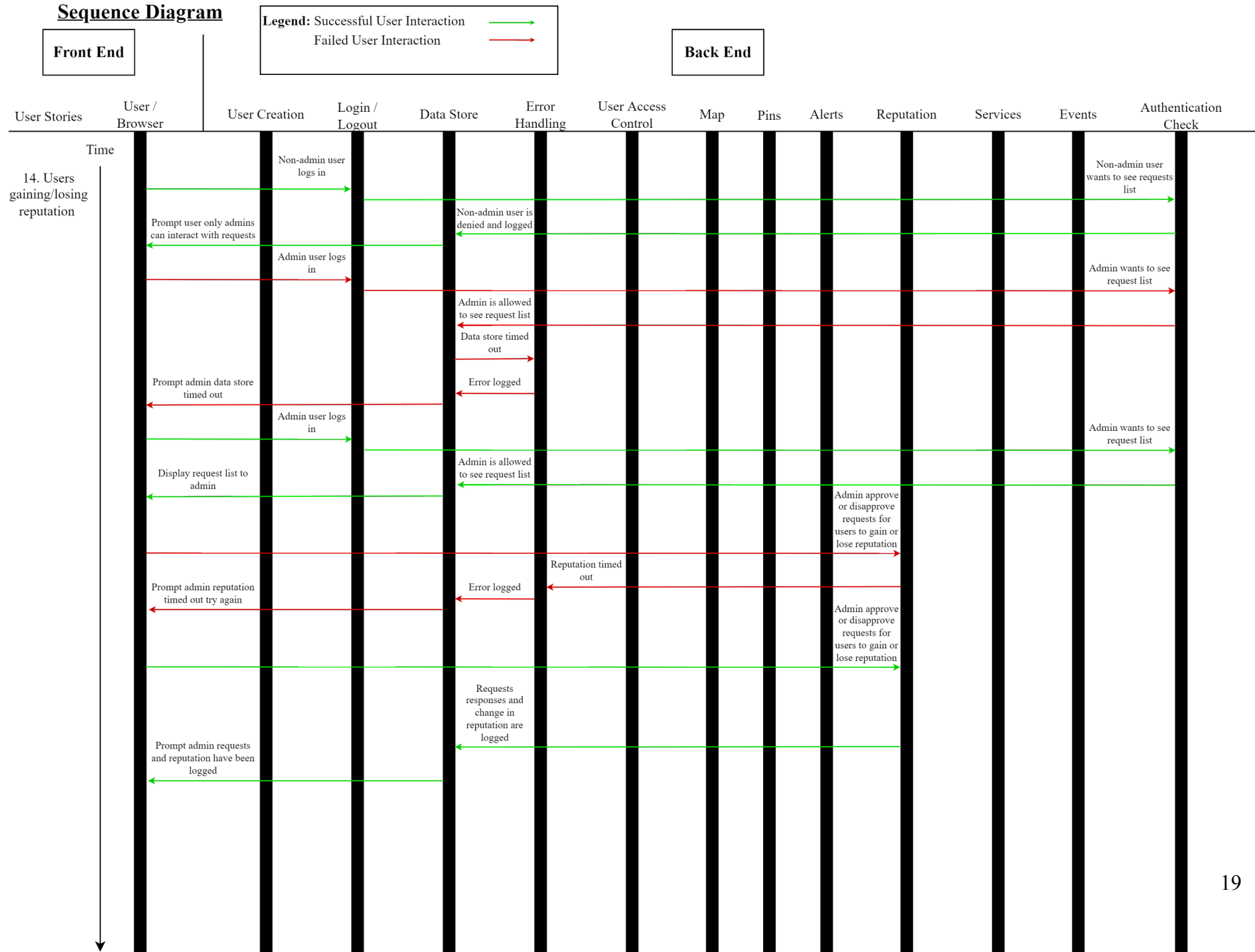
Back End

Sequence Diagram**Front End****Legend:** Successful User Interaction

Failed User Interaction

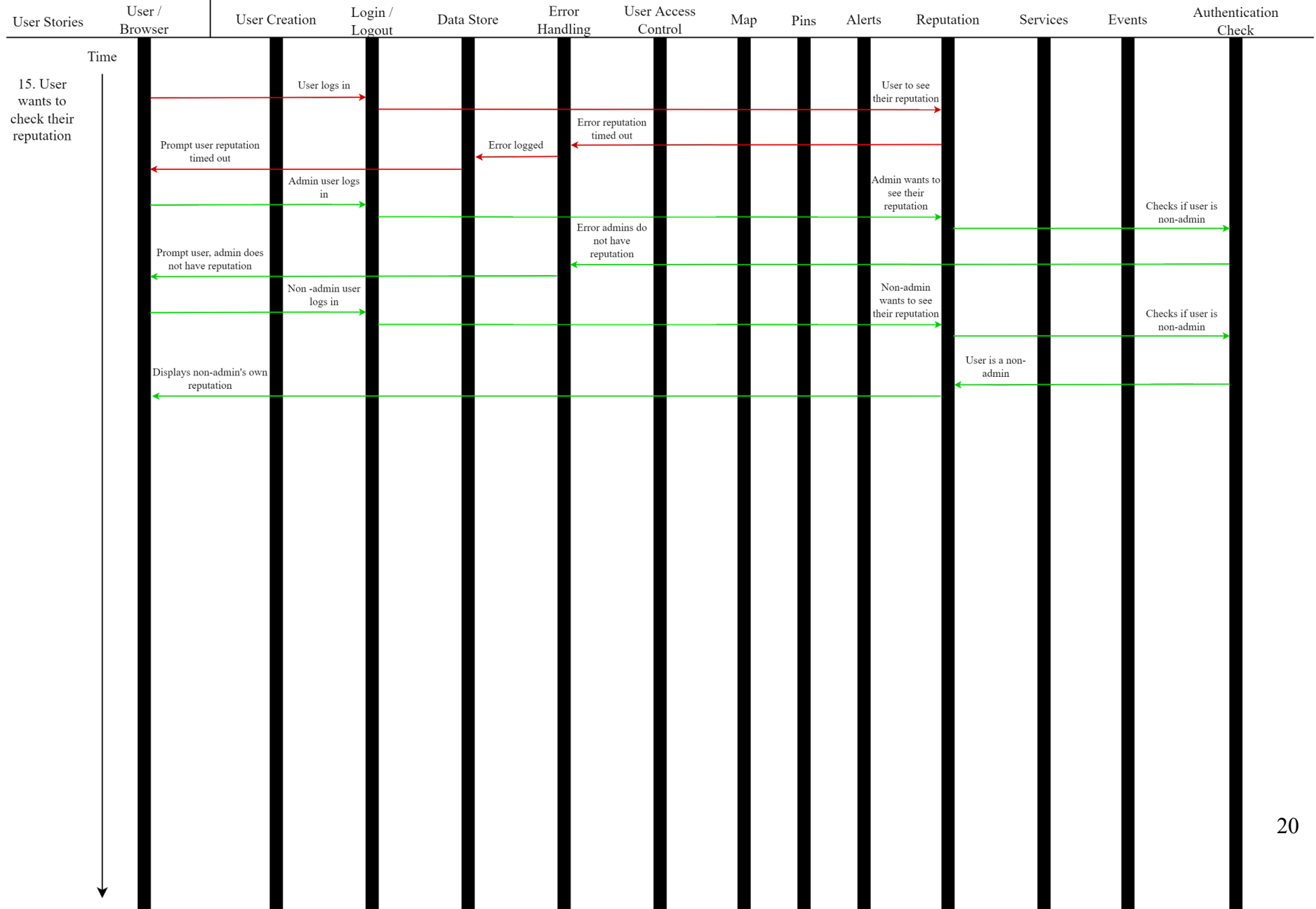
Back End

Sequence Diagram

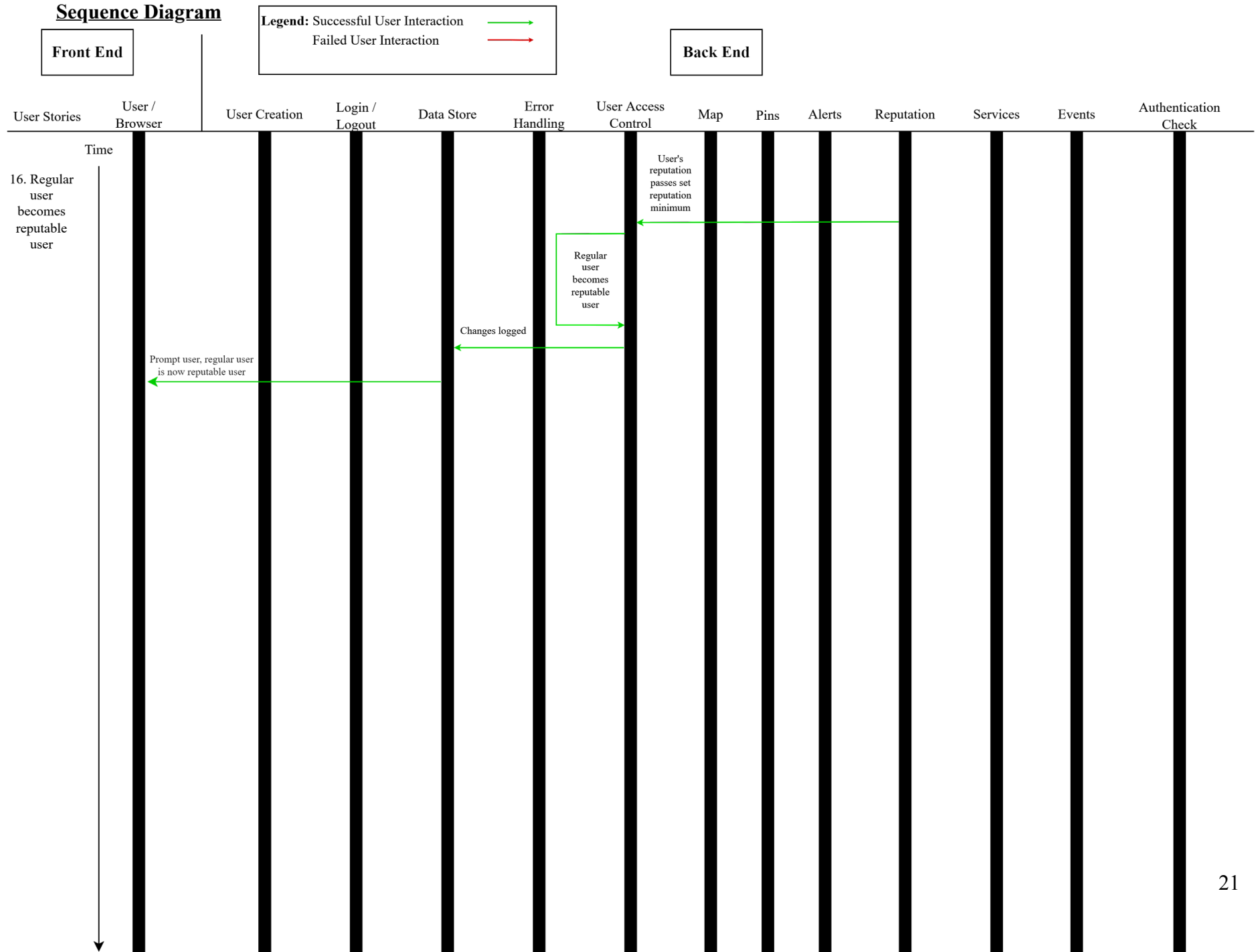


Sequence Diagram**Front End****Legend:** Successful User Interaction

Failed User Interaction

Back End

Sequence Diagram



Sequence Diagram**Front End****Legend:** Successful User Interaction

Failed User Interaction

Back End