

Team Big Data

U-tification

High Level Design

Date: 10/02/2022

Team Leader: Joseph Armas

Team Members: Joshua Gherman

Rhoy Oviedo

Frank Curry

Ghabrille Ampo

David DeGirolamo

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

Version History

Current Version: V1

Previous Versions:

Table of Contents

Page:

1. Cover Page
2. Version History
3. Table of Contents
4. Front end
4. Back end
4. Message Format
4. Protocol
5. Architect Design
6. Sequence Diagram: Creating an account
7. Sequence Diagram: Login/logout
8. Sequence Diagram: Show map
9. Sequence Diagram: Set up pin
10. Sequence Diagram: Show list of pins
11. Sequence Diagram: Create or modify event
12. Sequence Diagram: Join or exit event
13. Sequence Diagram: Modify or delete account
14. Sequence Diagram: Modify or delete pin
15. Sequence Diagram: List of services
16. Sequence Diagram: Create or modify services
17. Sequence Diagram: Alerts
18. Sequence Diagram: Gain or lost reputation
19. Reference

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

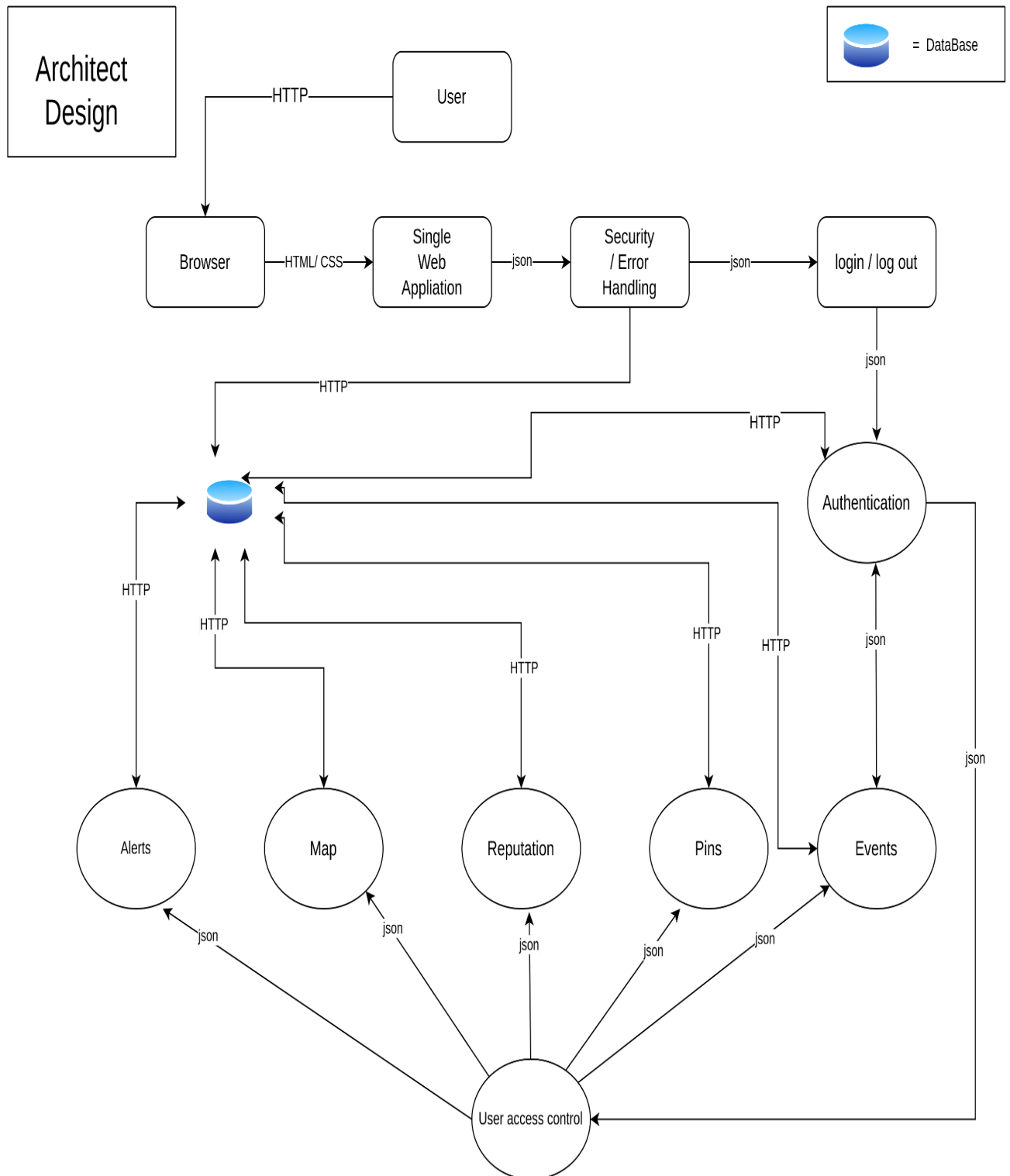
Security - check for bots and abnormal activity

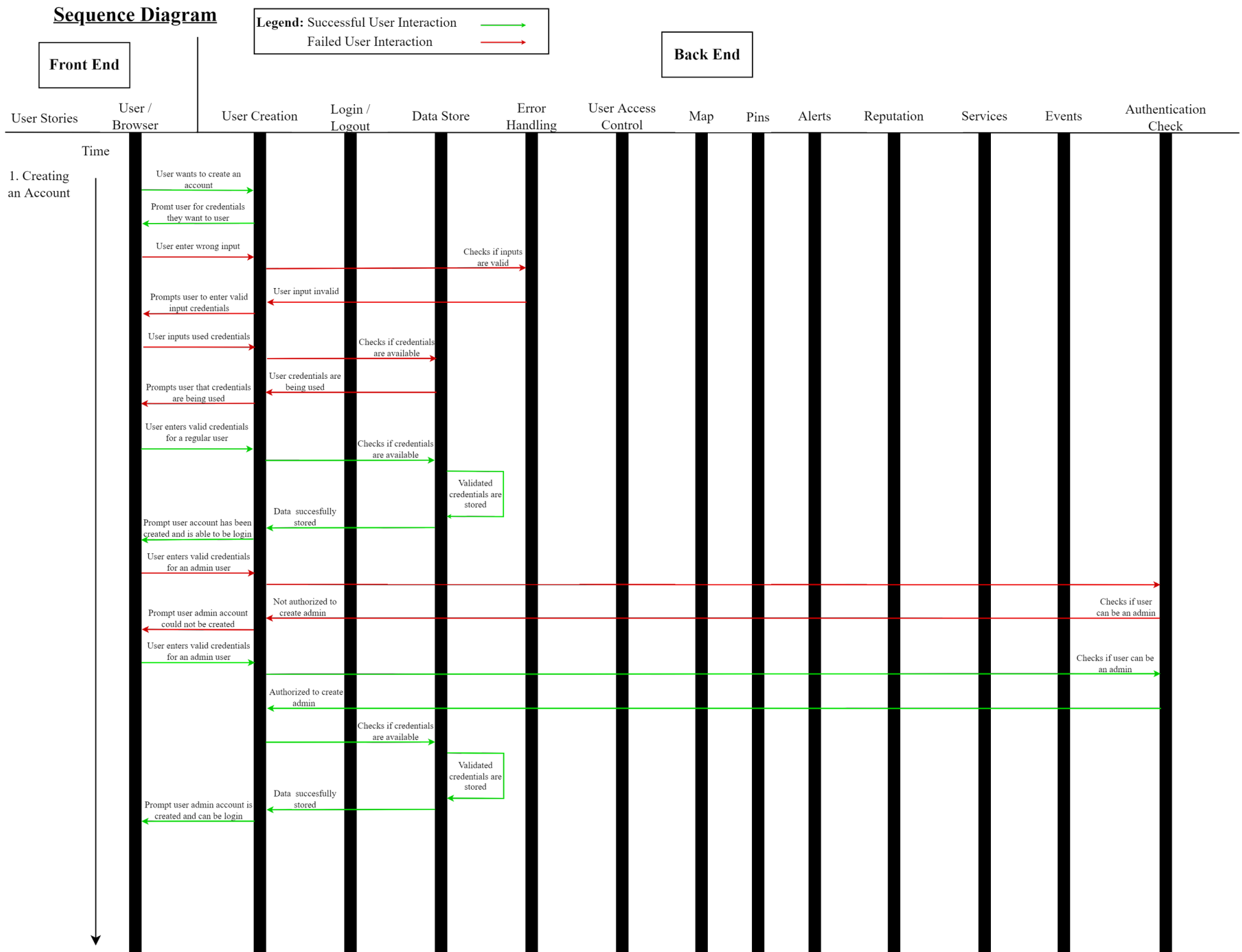
Message format

REST : json

Protocol

HTTP

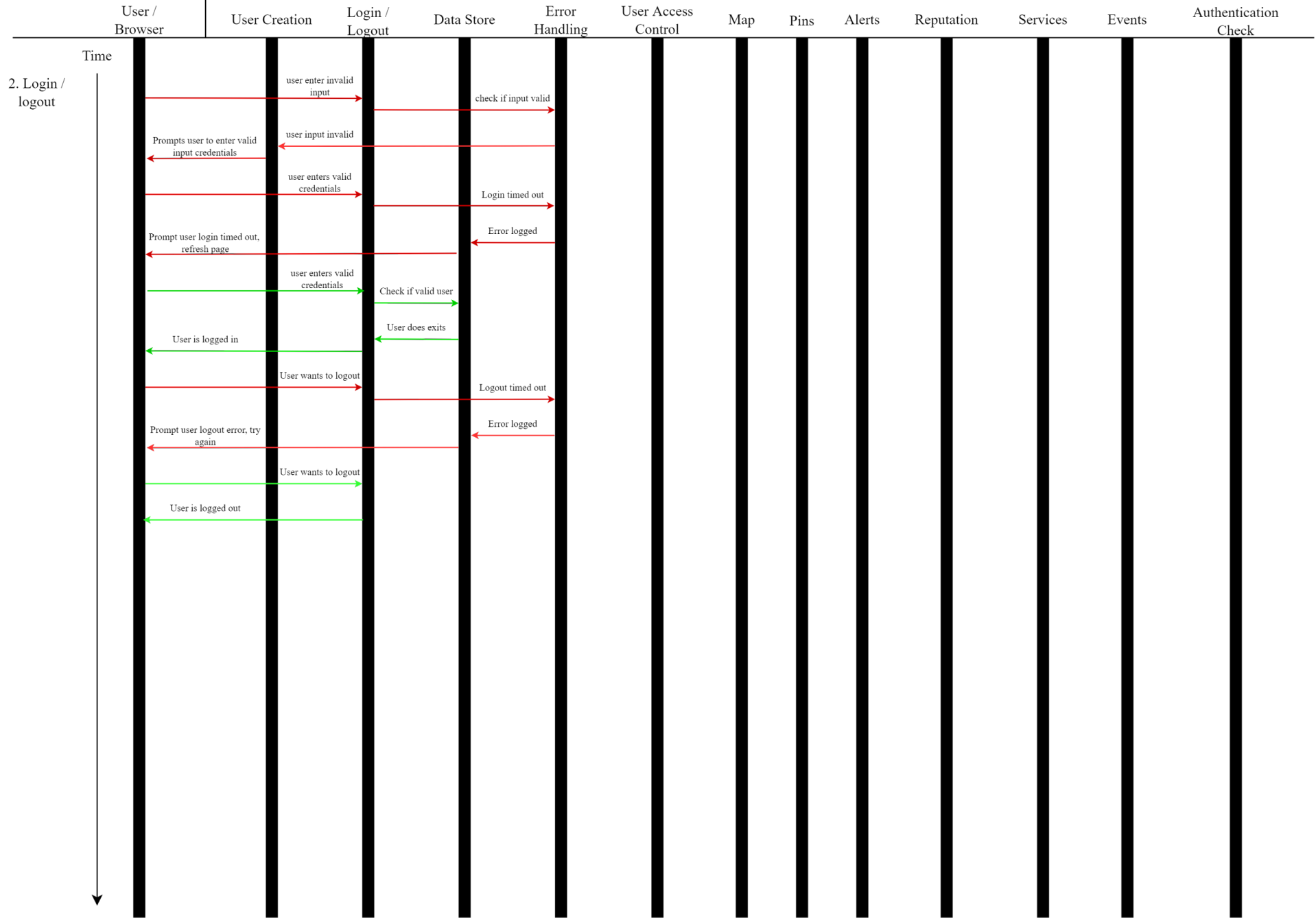




Sequence Diagram**Front End**

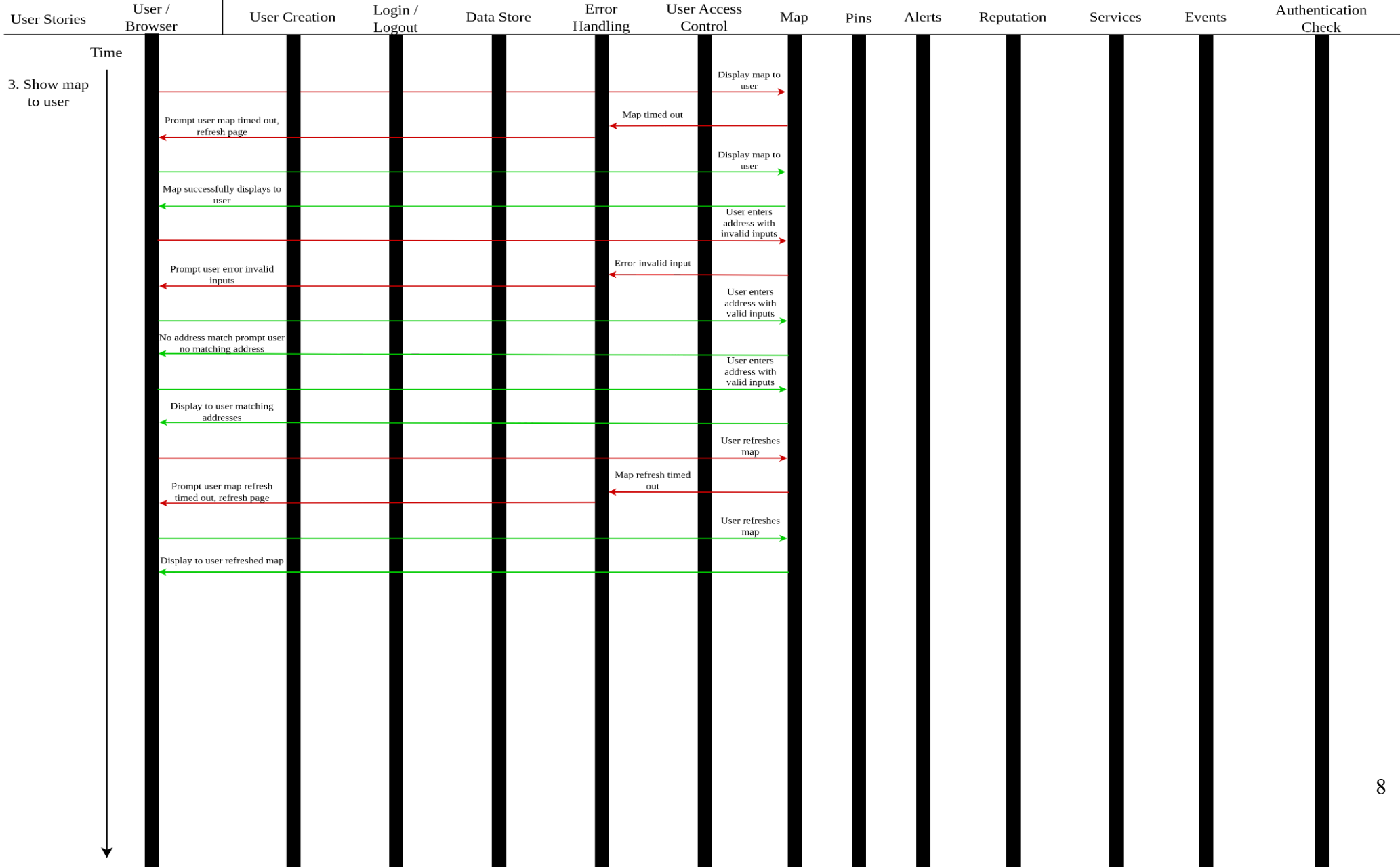
Legend: Successful User Interaction →

Failed User Interaction →

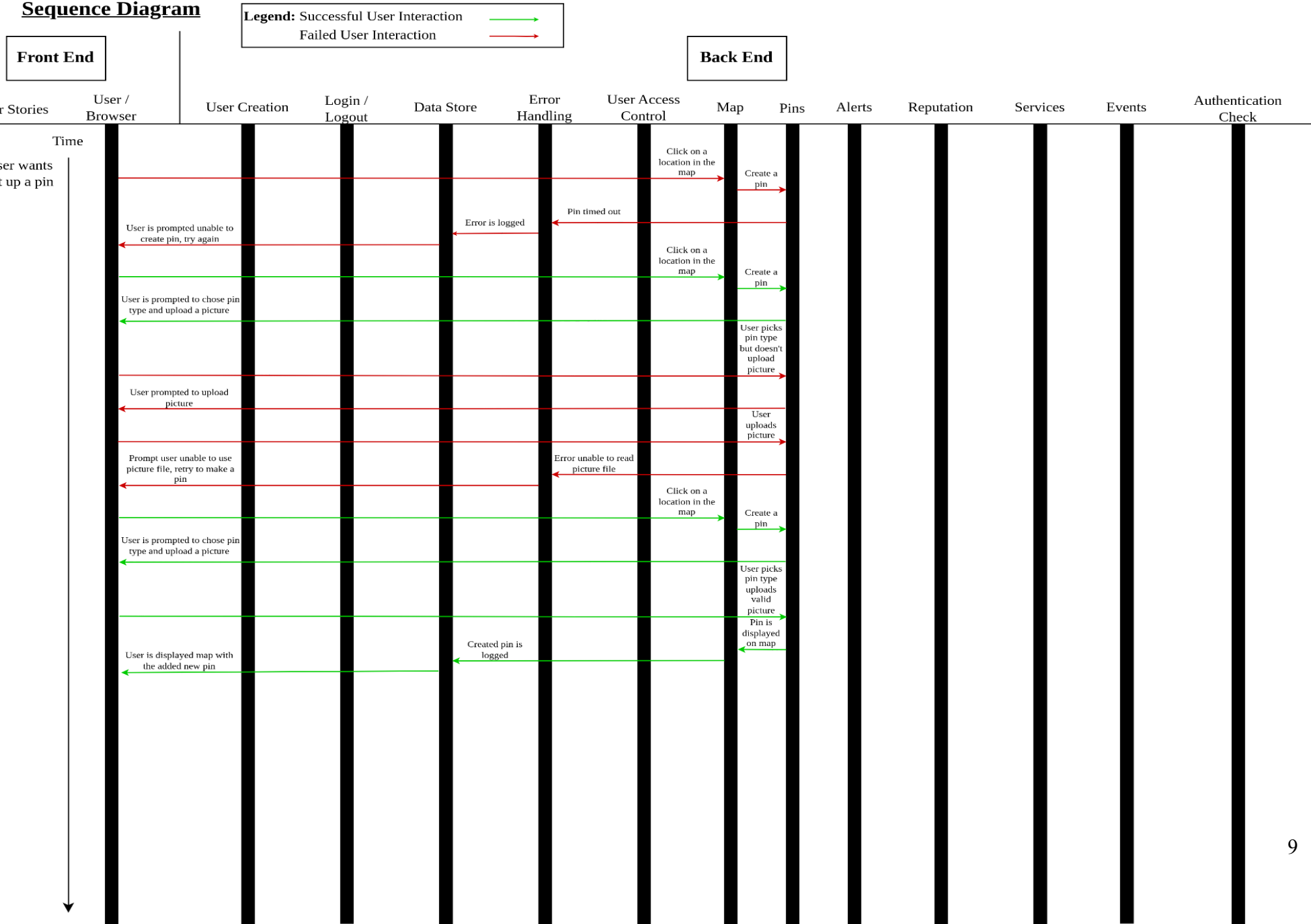
Back End

Sequence Diagram

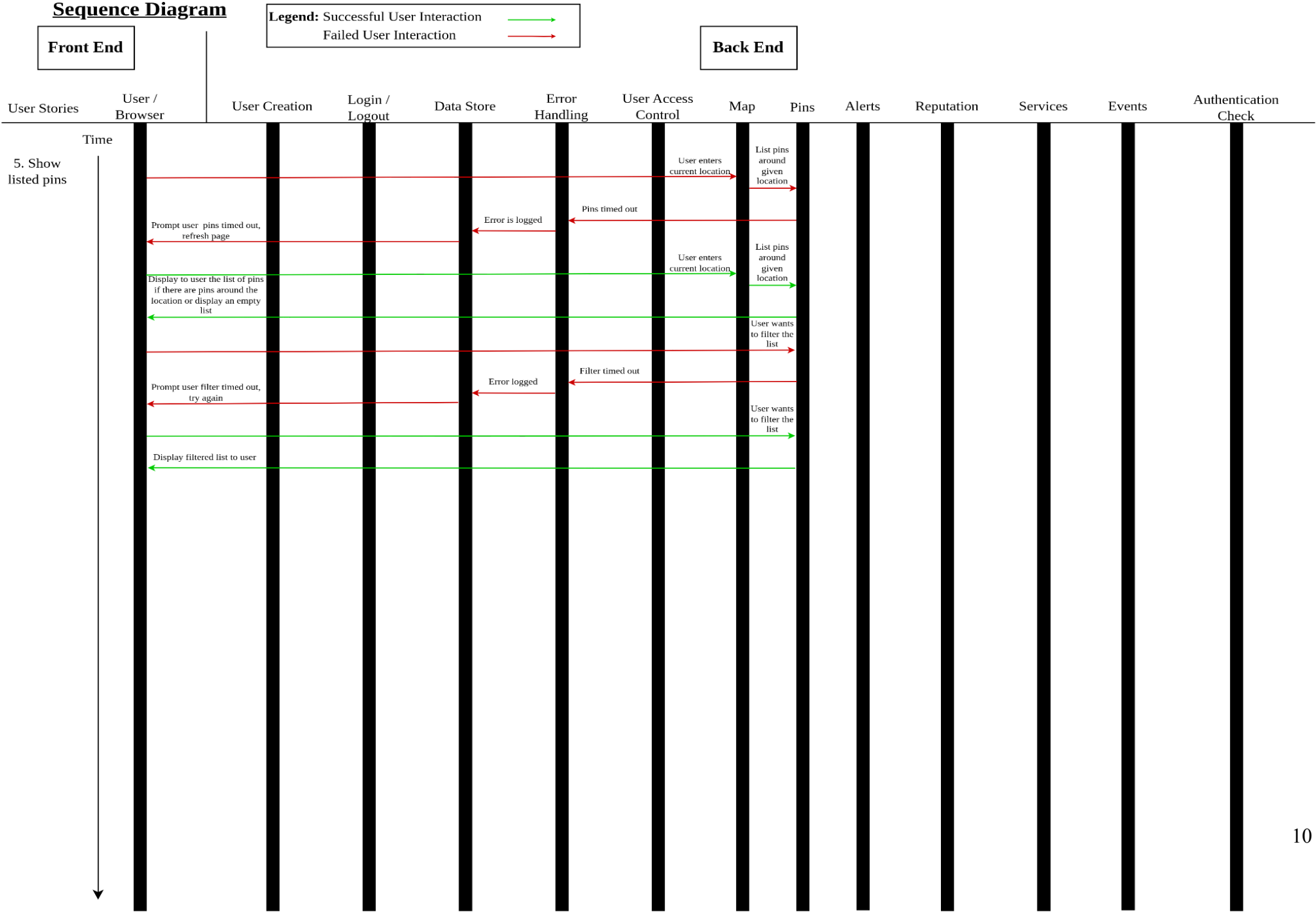
Legend: Successful User Interaction →
 Failed User Interaction →

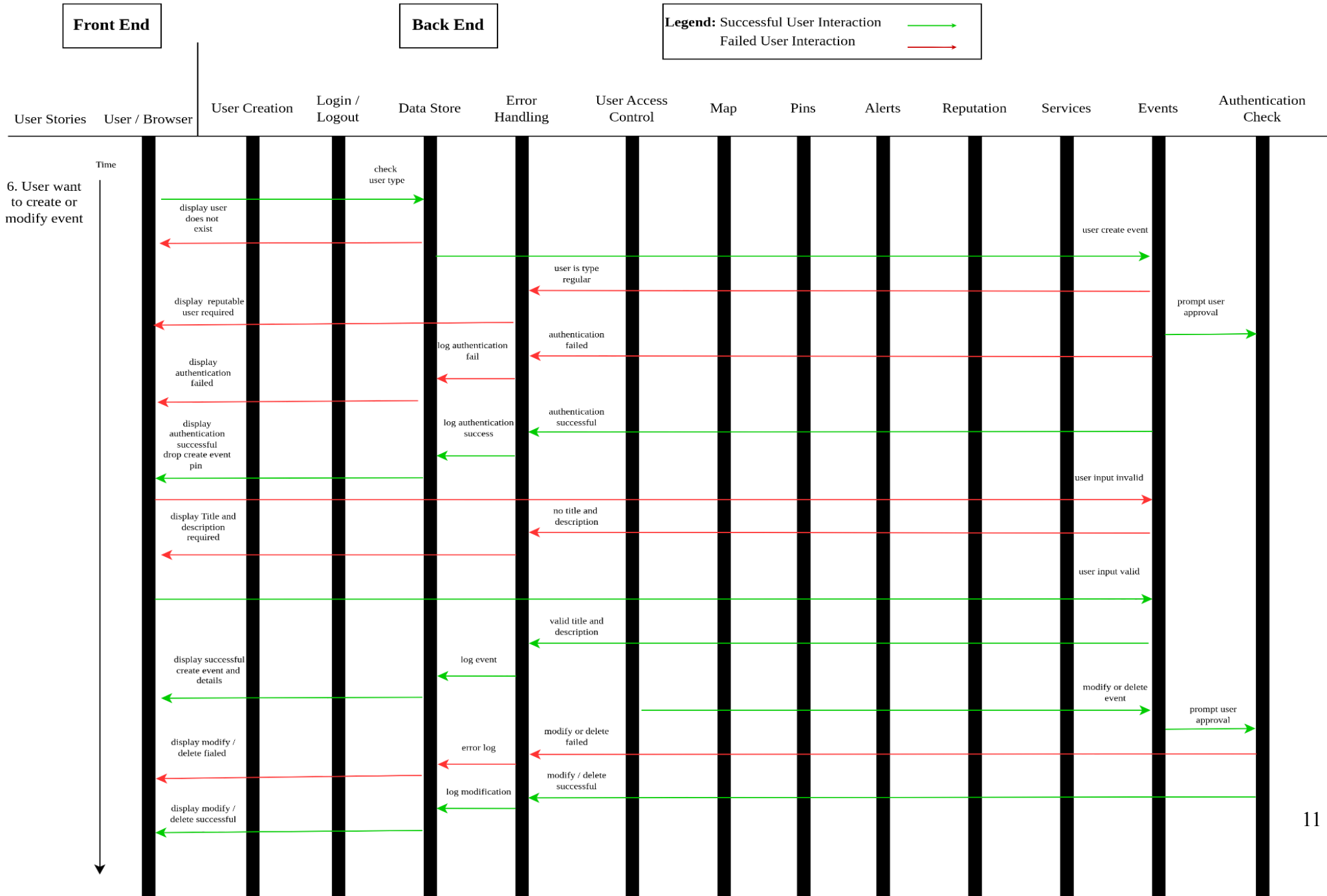
Front End**Back End**

Sequence Diagram



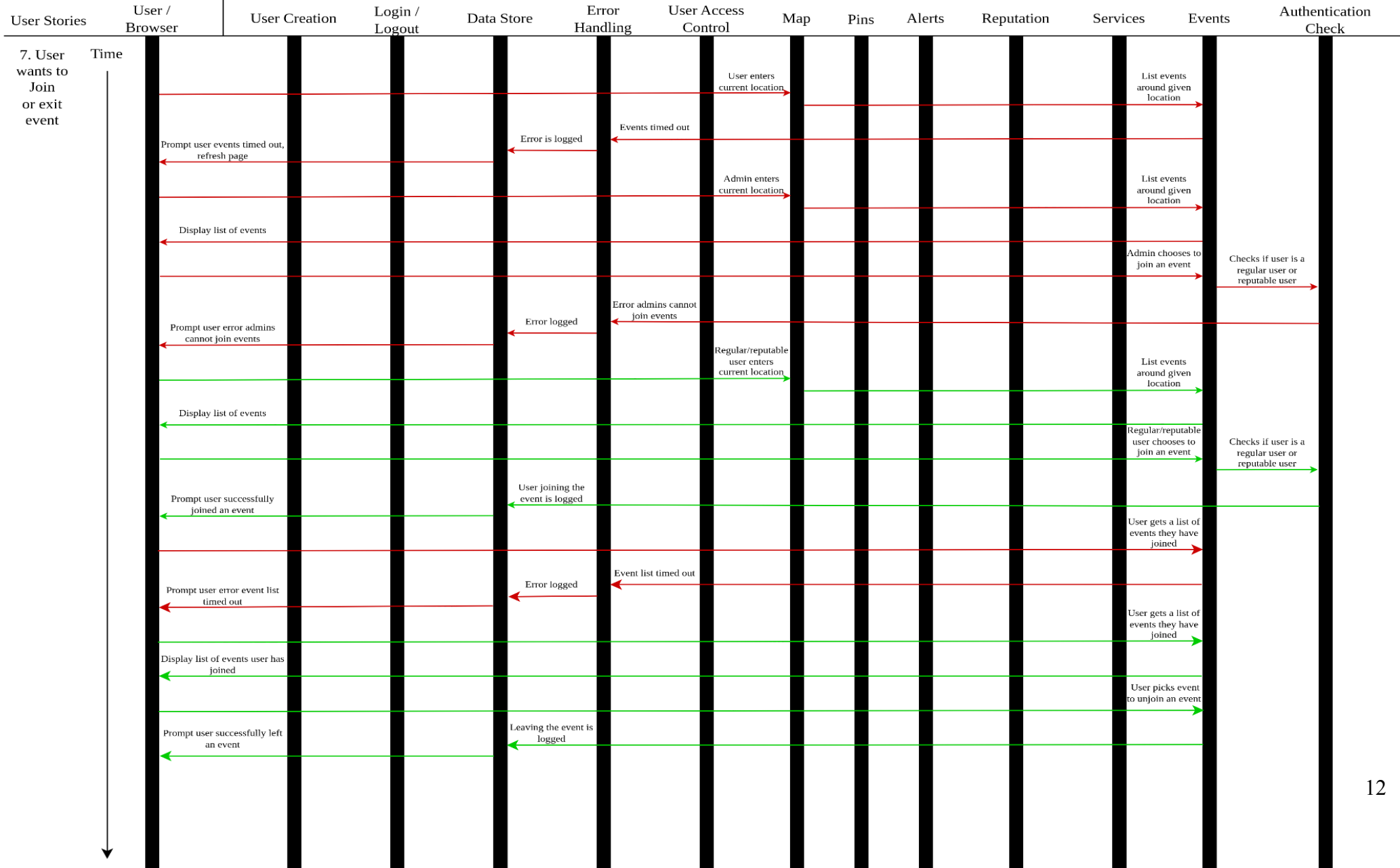
Sequence Diagram



Sequence Diagram

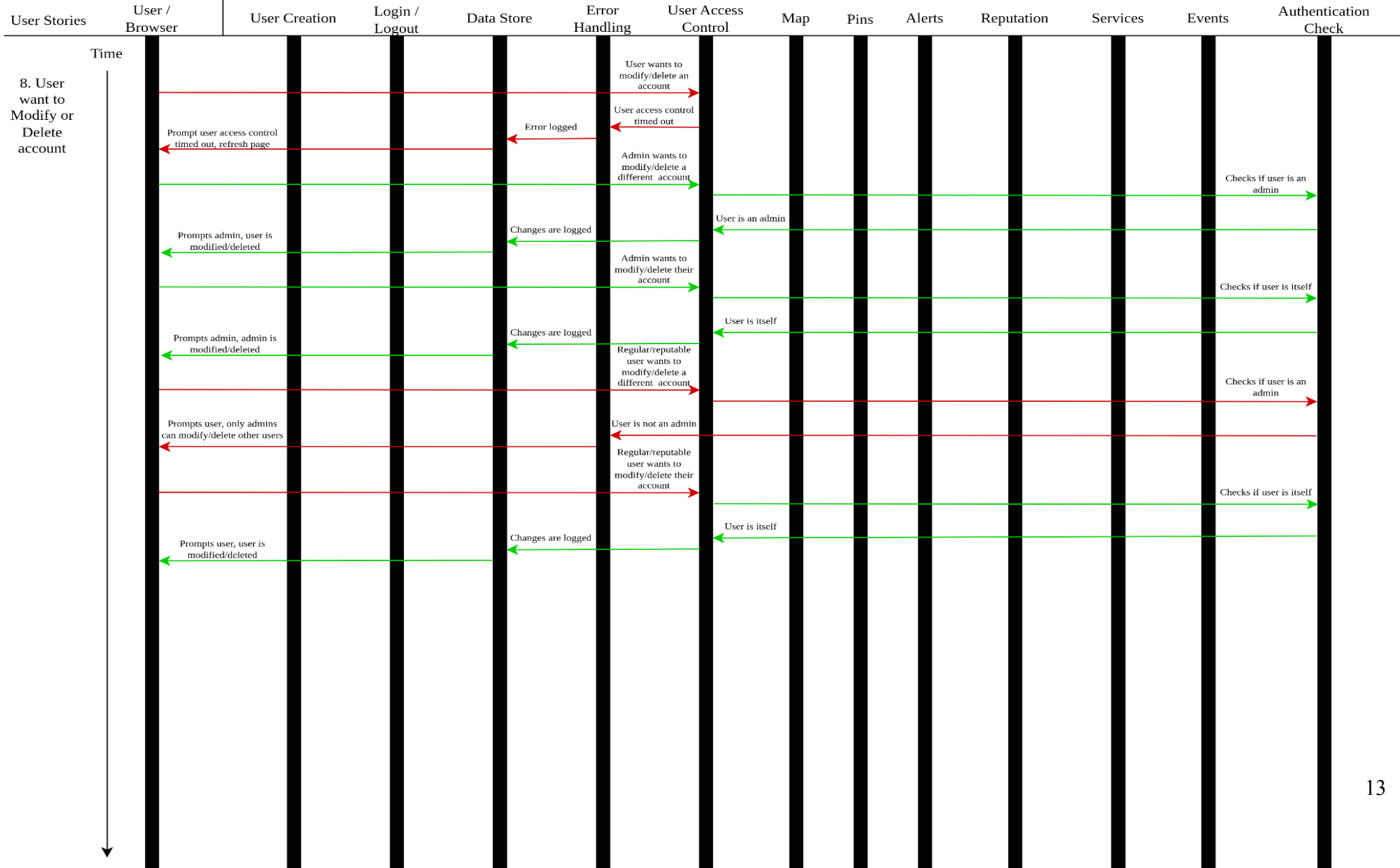
Sequence Diagram**Front End**

Legend: Successful User Interaction →
 Failed User Interaction →

Back End

Sequence Diagram**Front End**

Legend: Successful User Interaction →
 Failed User Interaction →

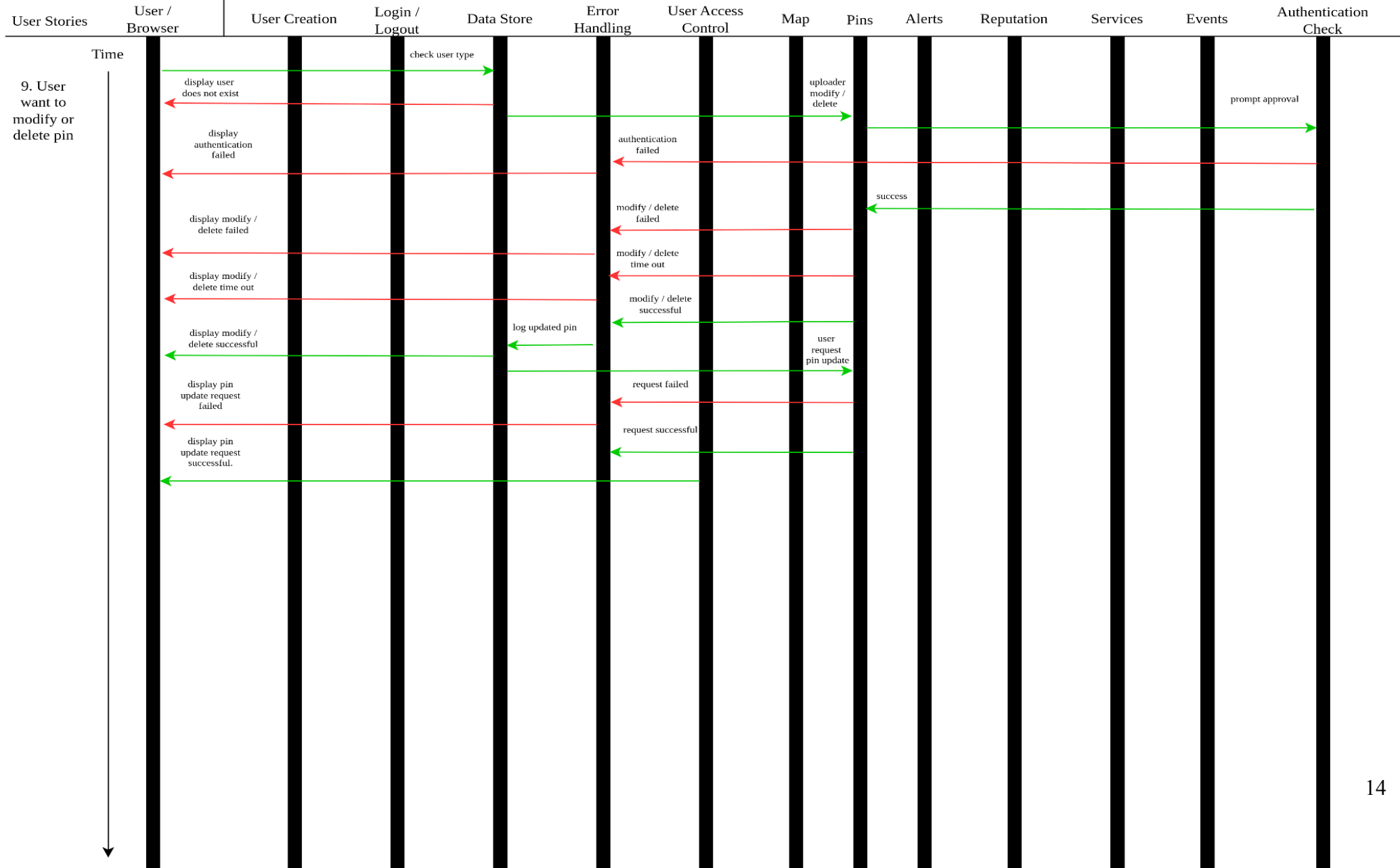
Back End

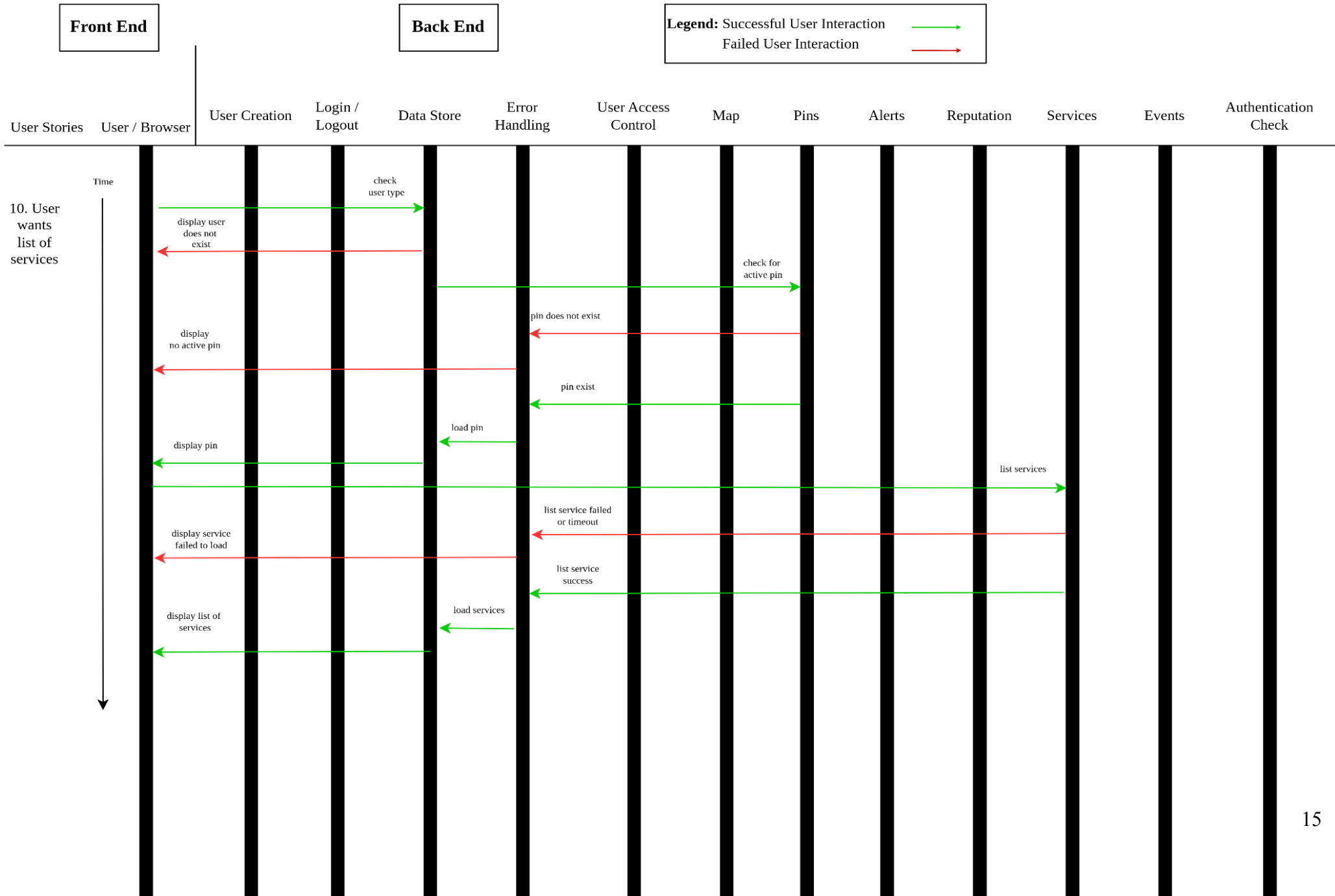
Sequence Diagram

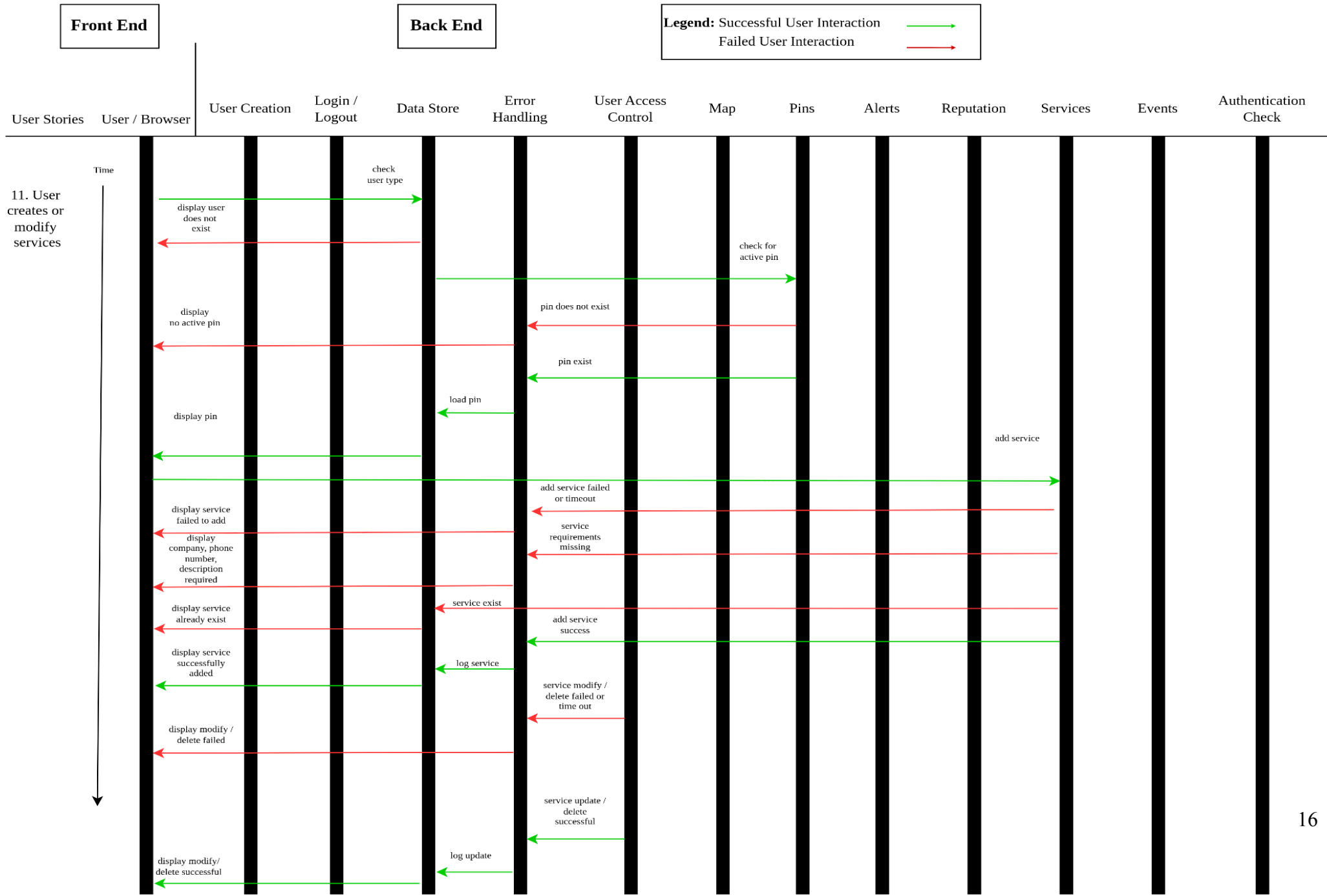


Legend: Successful User Interaction
Failed User Interaction

Back End



Sequence Diagram

Sequence Diagram

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

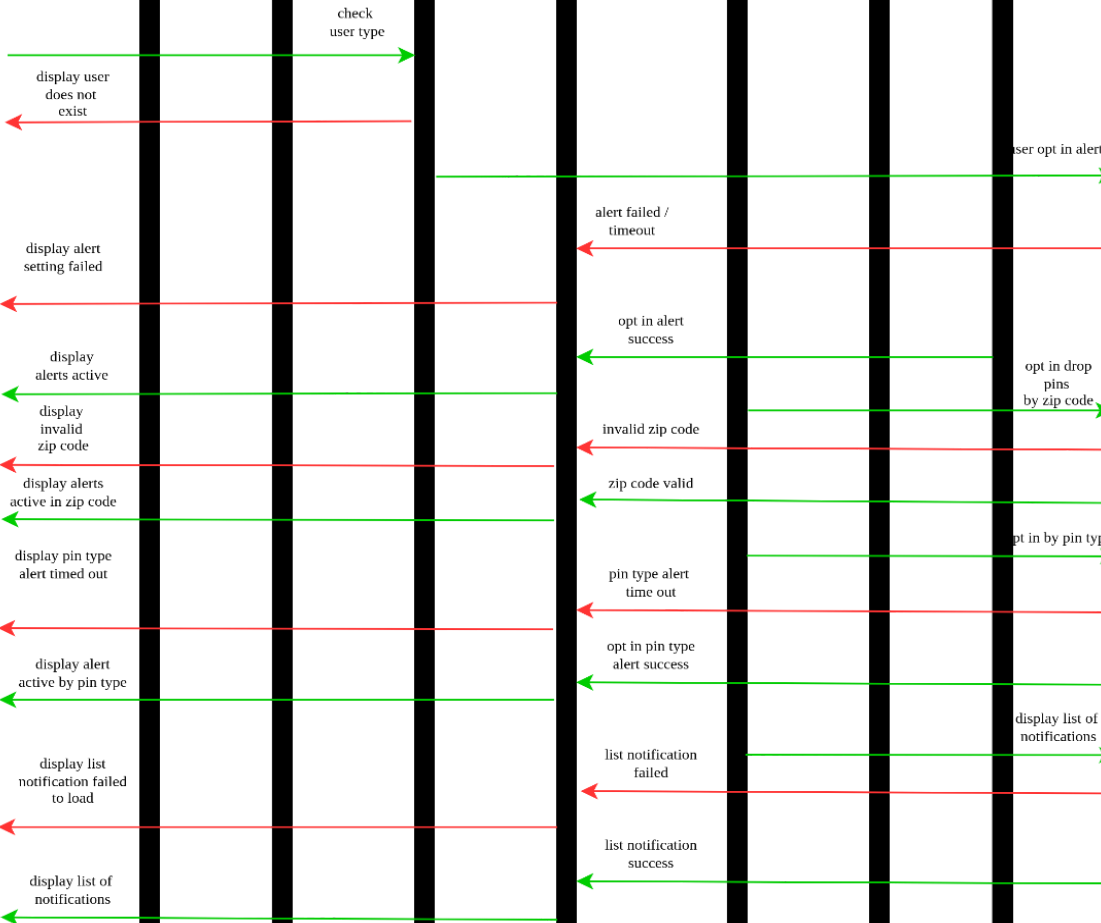
Failed User Interaction

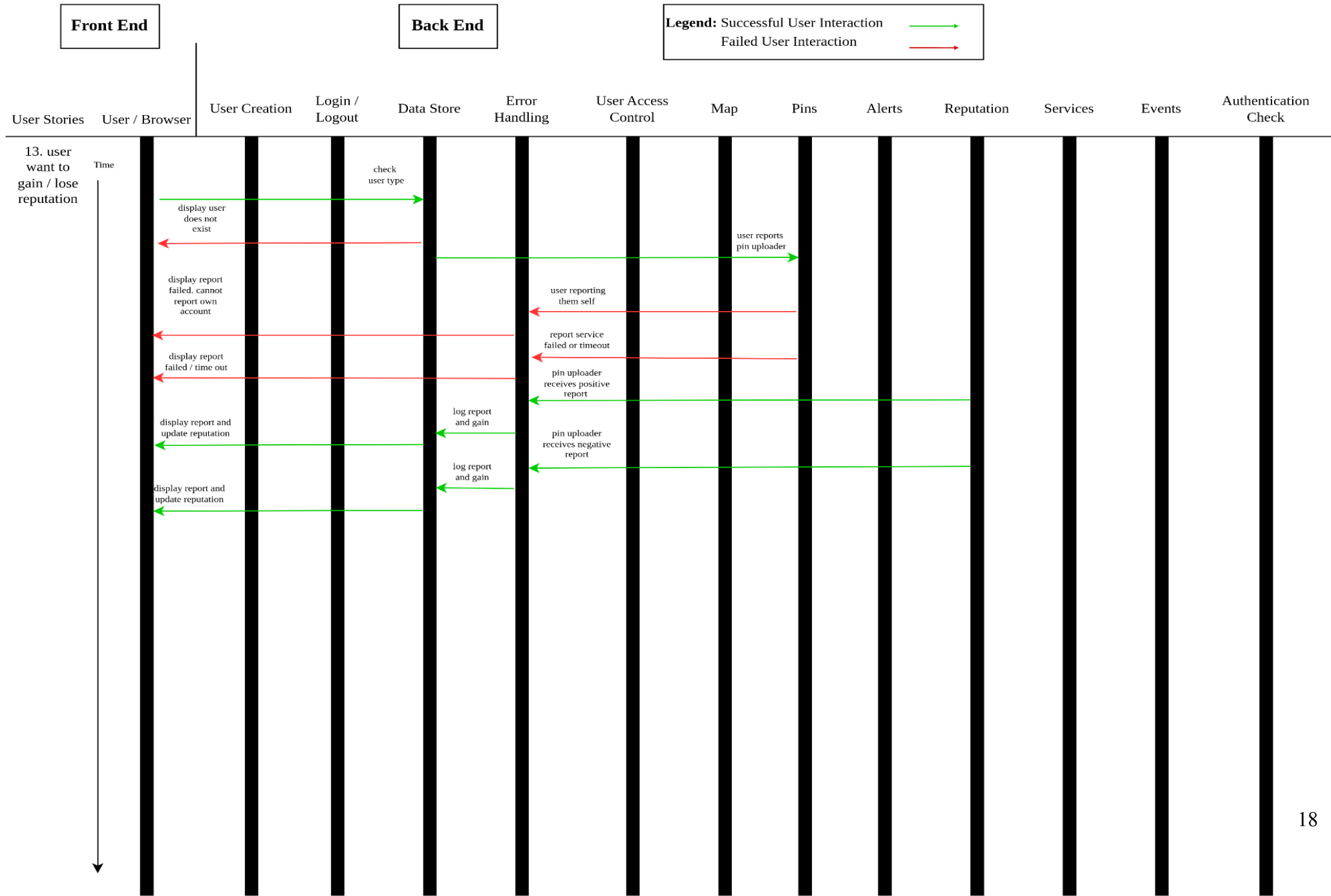


User Stories User / Browser User Creation Login / Logout Data Store Error Handling User Access Control Map Pins Alerts Reputation Services Events Authentication Check

Time

12. User wants alerts



Sequence Diagram

Reference

[1] pdf: [Sequence diagram and design architect](#)