

# Requirements Document

CSC 450: Computer Networks  
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# Minimalist Version

The network application will be an itinerary creation platform where the meaningful data stored in objects would be the itinerary which would store events and the dates/times that they would occur and the location that they would occur in.

## Functional Requirements

### Must Have

1. A secure authentication mechanism that allows users to sign in securely and have their data saved.
2. Itinerary creation functionality that allows users to create new itinerary objects with events that have dates/times associated with them.
3. Save the itinerary object to the server.

### Should Have

1. Dashboard of all the itinerary objects created by the user.
2. Ability to add/delete/modify events that have already been created in the itinerary object.
3. Users should be able to share their itineraries.

### Could Have

1. Collaborative itinerary planning where multiple clients can access the same itinerary in real time.
2. Voting polls to determine ideal dates and times among groups.
3. Event suggestions based on the user's previous itineraries.

### Won't Have

1. Access to the application offline.
2. Integration with maps.

## Non-functional Requirements

### Product

1. Performance
  - a. The network application must manage concurrent access to shared itineraries.
  - b. One itinerary object should be able to be shared among up to 10 users.

- c. The response time should be reasonably quick.
- 2. Reliability
  - a. Errors in synchronization, network connectivity, etc are handled properly so that the system can keep running smoothly.
- 3. Security
  - a. Secure authentication mechanism that allows the user to save their itineraries and restricts access to itineraries.
- 4. Usability
  - a. There should be a user-friendly GUI interface

## Organizational

Main programming language: Java

## Enhanced Version

The network application I propose is a collaborative itinerary planning platform. If you're traveling with friends, you and your friends can share one itinerary and add or remove places that you want to go to. The group can vote on dates and times that work best for them so that the itinerary works with everyone's schedules. It's not just for travelers, you can also use it when planning to do any event with a group of people.