Meeting coordinator

Final Report

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CSC 340 Ethics and Software Engineering

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# Introduction

## Problem Statement

Company ABC, Inc is in need of a software system to help their employees to keep a planner to record their schedule. This planner must allow their employees to coordinate meetings based on attendants’ planners and the availability of conference rooms.

## Proposal

We propose a meeting coordinator software system to help ABC, Inc to resolve the problem.

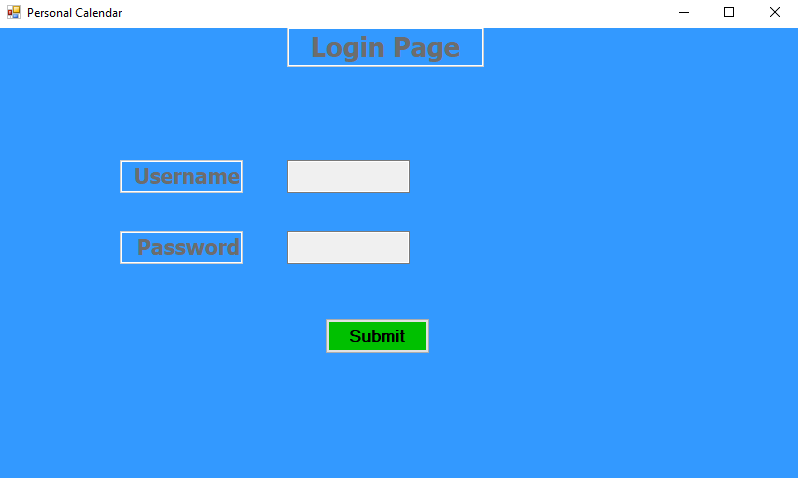
# System Description

The meeting coordinator system shall allow users to login in and then to add an event to the planner and check for conflicts with attendants’ existing events as well as if the chosen conference room is available. The system shall maintain the availability of conference rooms and update the planner of all attendants’ planner.

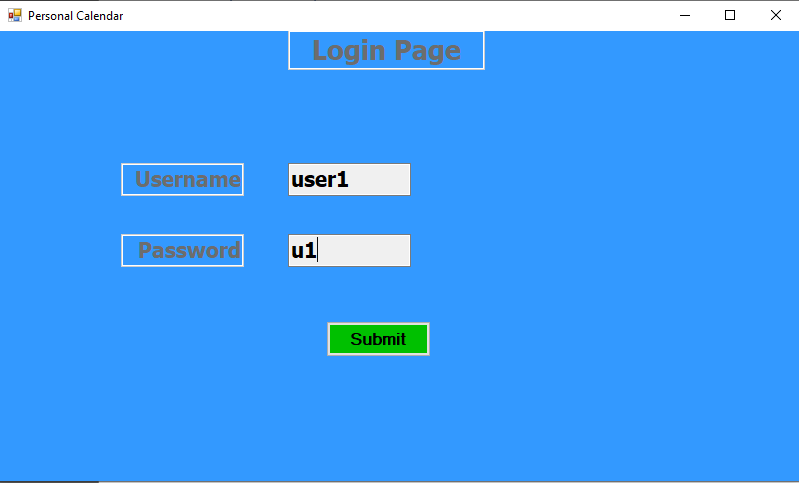
# System Requirement

## Functional Requirements

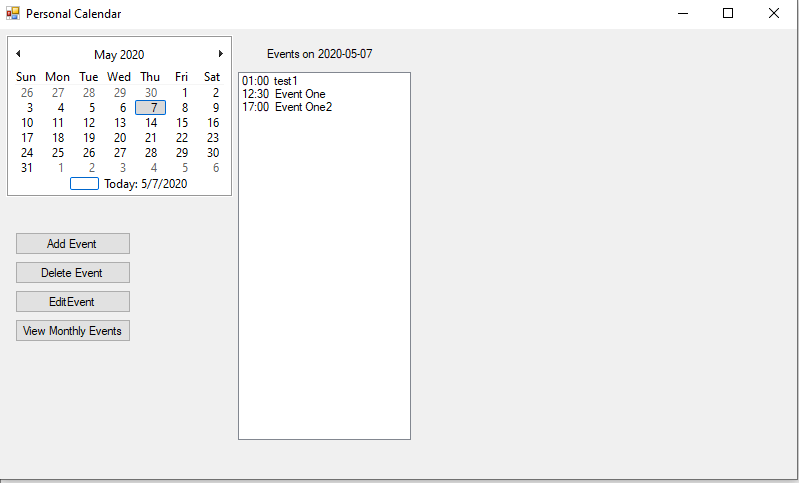
1. The system shall allow a user to keep a planner to record their schedule.
   1. The system shall display the login screen for the meeting coordinator.



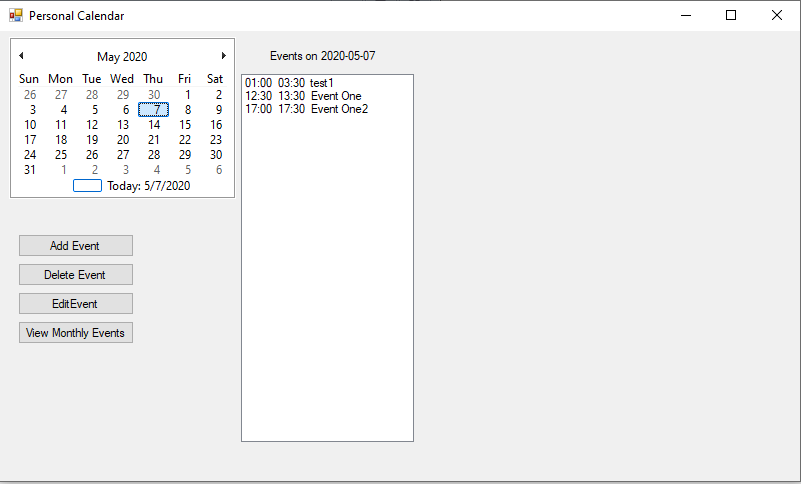
* 1. The user shall provider their company provided login data.



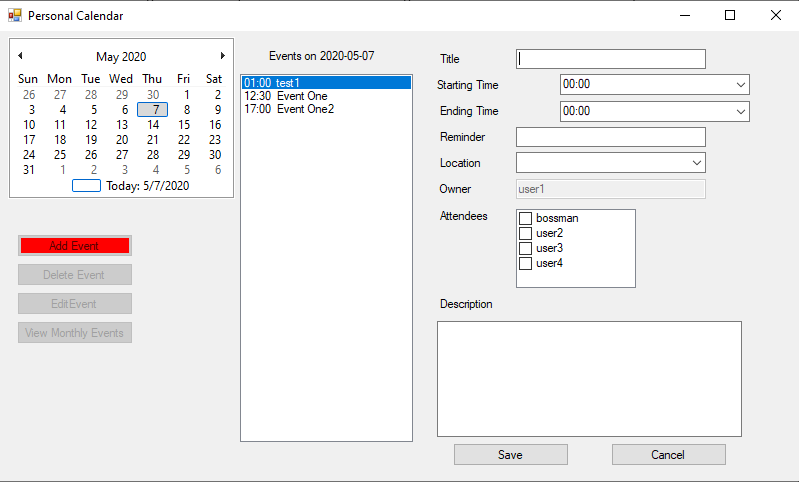
* 1. The user shall select the submit button.
  2. The system shall display the personal calendar screen.



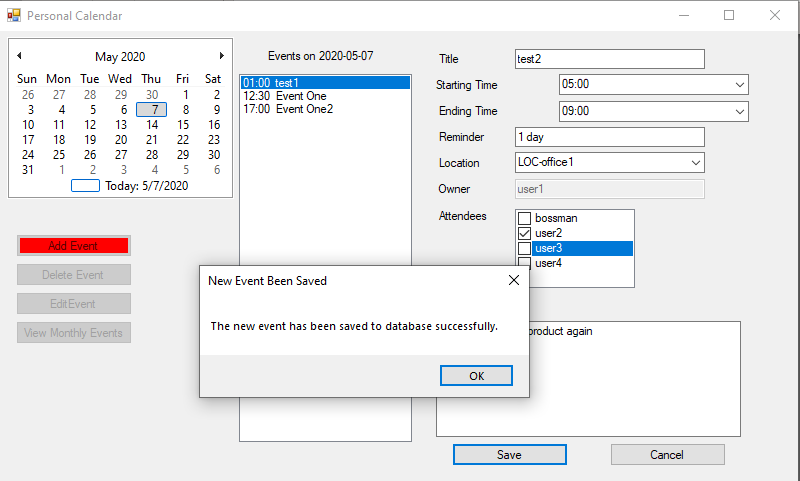
* 1. The user shall select a date from the monthly calendar to add the new event.
  2. The system shall highlight the selected date on the calendar.



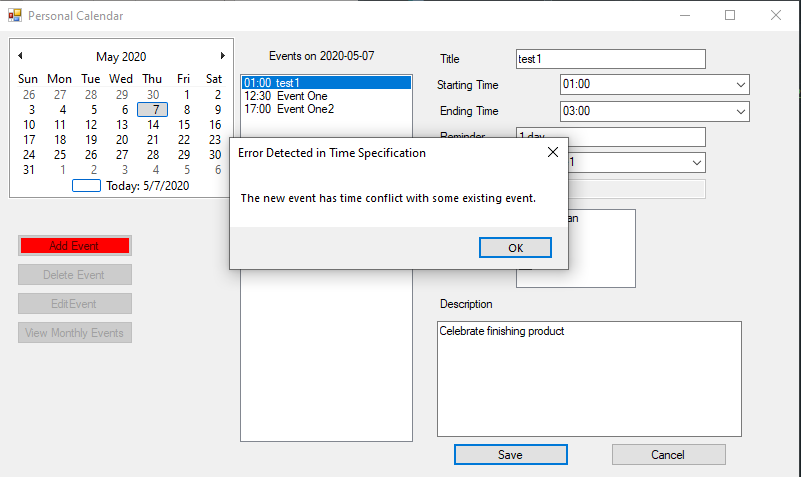
* 1. The user shall press the “Add Event” button.



* 1. The system shall display a form to allow a user to enter the information of the new event, including event title, starting time, ending time, reminder time, location, and attendees.
  2. The user shall enter the data for the event information and press the “Save” button.
  3. The system shall check whether the new event conflicts with existing attendants’ events or if the selected location is available.
     1. If there is no conflict, then the system shall save the event to the database and display the event title in the user’s and attendees’ planner. The system will display a message to confirm that the event has been saved to the database.



* + 1. If there is any conflict, then the system shall display an error message.

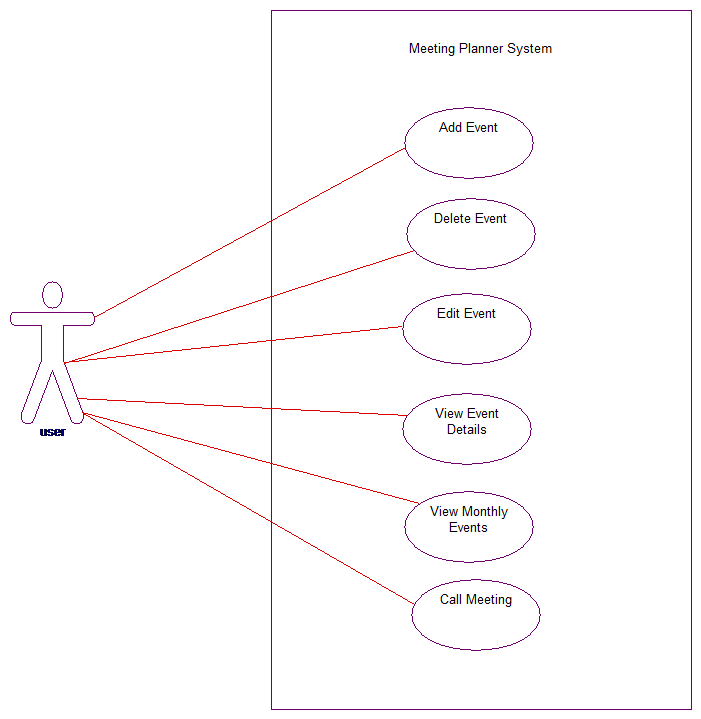


1. The system shall maintain the availability of conference rooms.
   1. The user shall select a date from the monthly calendar.
   2. The user shall select the “Available Rooms” button.
   3. The system shall display a list of rooms that are available on that day and during what times.
2. The system shall allow a user to coordinate meetings based on attendants’ planners and the availability of conference rooms.
   1. The user shall select a date from the monthly calendar.
   2. The user shall select the “Available Meeting Times” button.
   3. The system shall display a form to allow a user to the attendants’ name.
   4. The user shall enter the data for the form and select the “Search” button.
   5. The system shall check for available meeting times based on attendants’ planners and the availability of conference rooms.
      1. If there is an available time and room, the system shall display the times each room is available.
      2. If there is not an available time and room, the system shall display an error message and prompt the user to try a different date.

## Non-functional Requirements

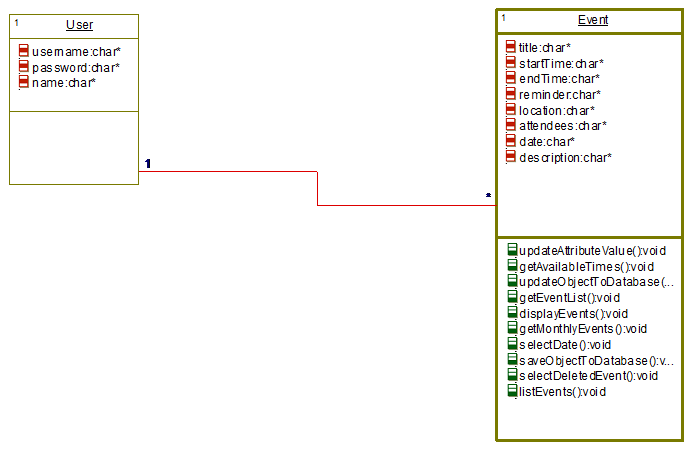
1. The system shall present information to the user in the English language.
2. The system shall use the Gregorian calendar.
3. Password must be greater than or equal to 8 characters.

# Use Case Diagram



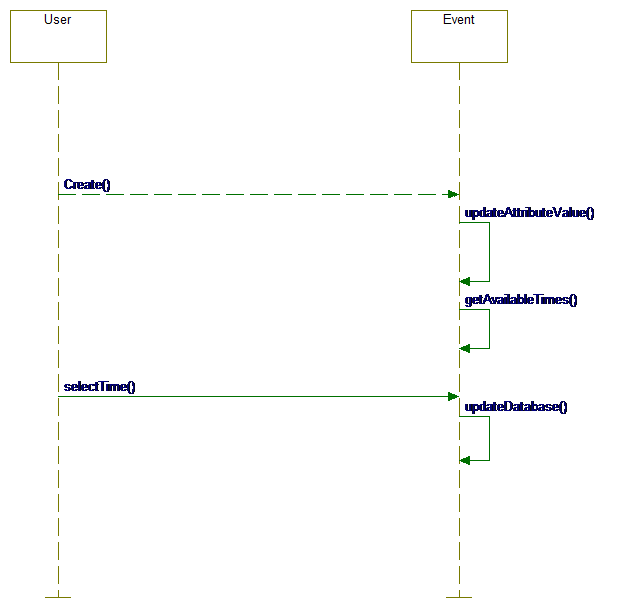
This diagram shows the expected behaviors a user is able to do in the meeting coordinator system. The user will be able to add, delete, edit, and view events. They will also be able to view monthly events and call a meeting.

# Class Diagram

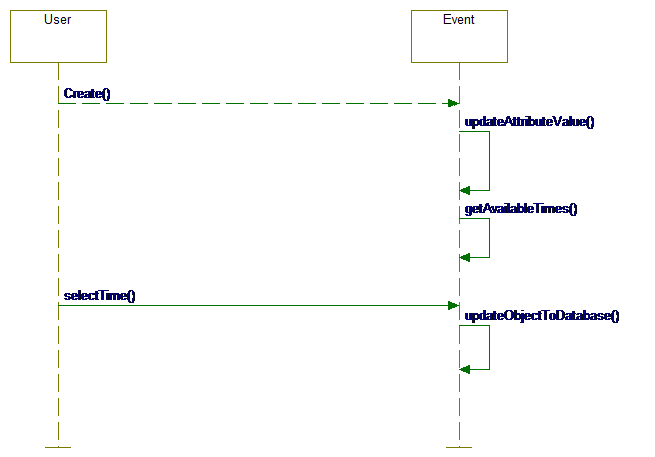


This diagram shows an overview of the system’s user and event classes. Inside of each class are the classes operations.

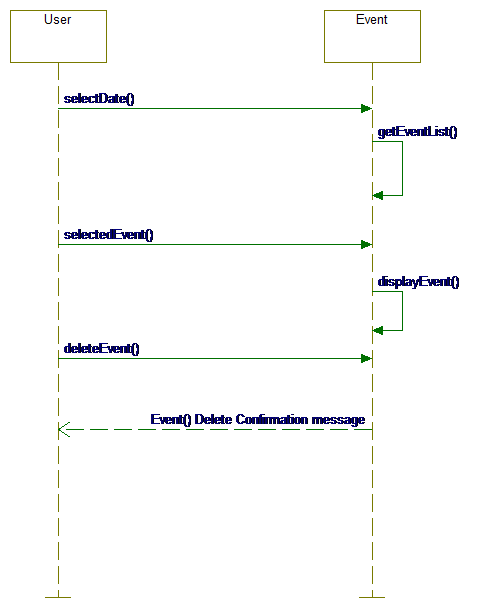
# Sequence Diagrams



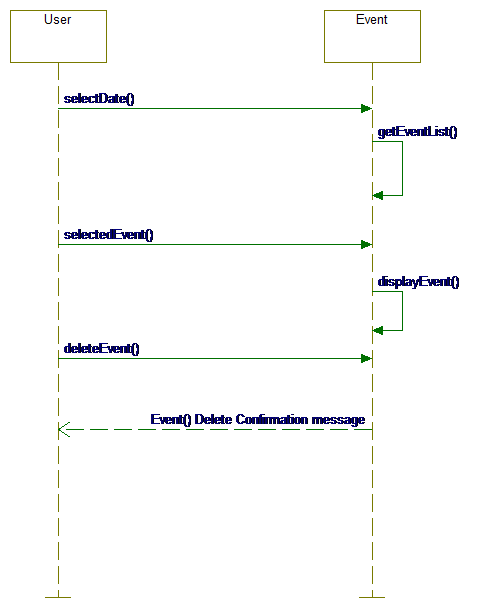
*Add Event* - This diagram shows the interactions that take place for a user to add an event to the meeting coordinator.



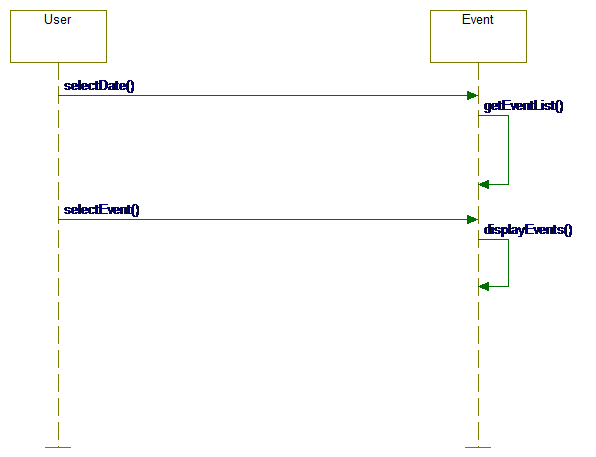
*Call Meeting* - This diagram shows the interactions that take place for a user to call a meeting and have the meeting display on the personal calendar of all users.



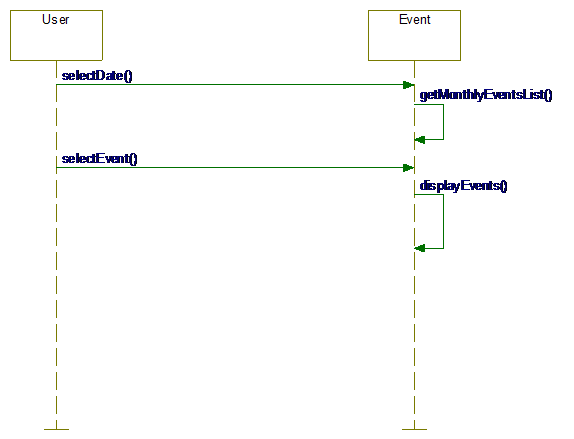
*Delete Event* - This diagram shows the interactions that take place for a user to delete an event from the users’ personal calendar and all attendee’s calendar.



*Edit Event* - This diagram shows the interactions that take place for a user to edit an event in the meeting coordinator for the user and all attendees of that event.

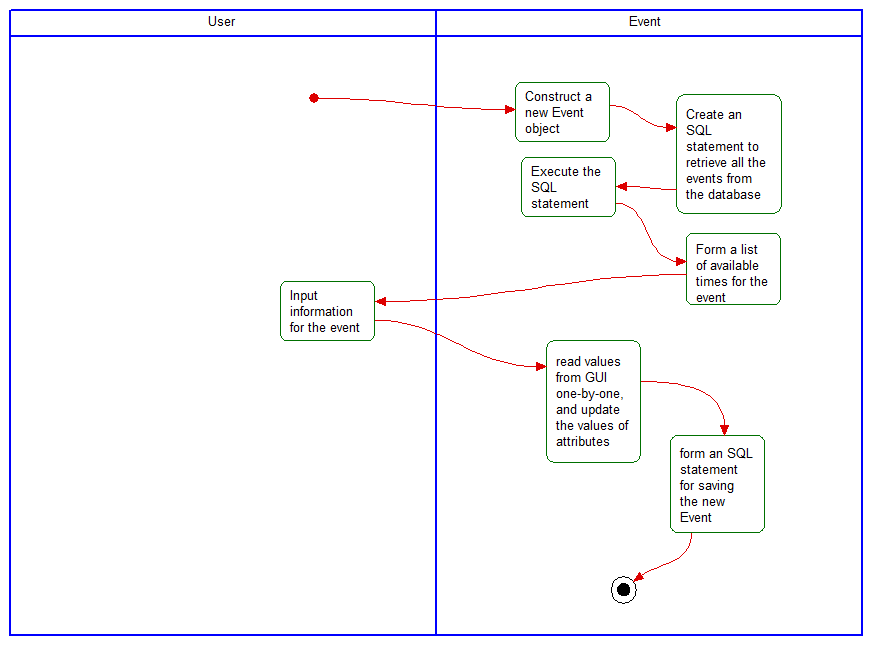


*View Event* - This diagram shows the interactions that take place for a user to view the details of an event that is on their calendar.

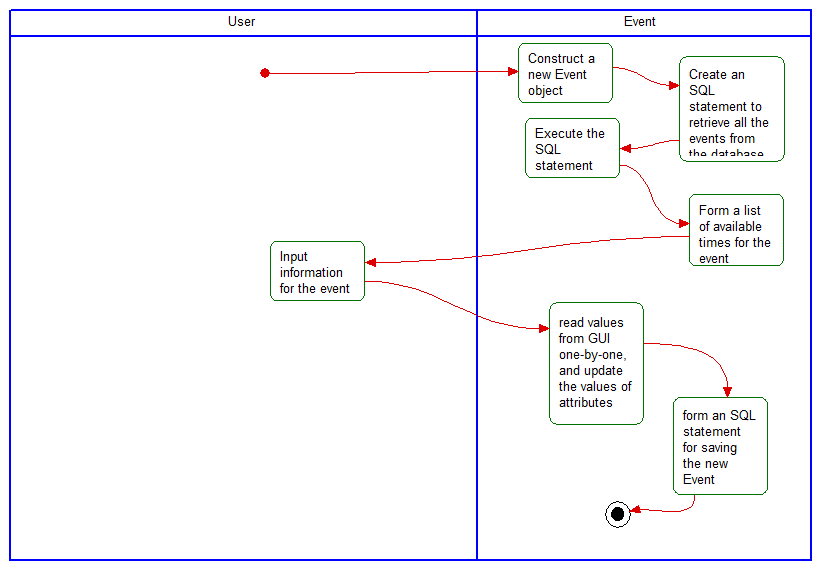


*View Monthly Event* - This diagram shows the interactions that take place for a user to view all events for the month that are on their calendar.

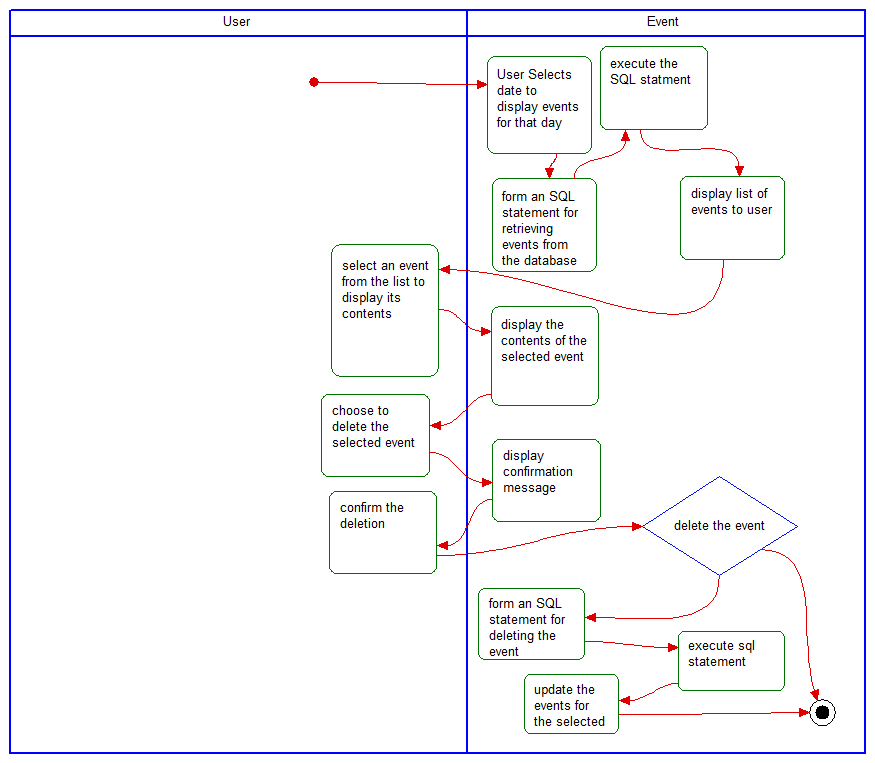
# Activity Diagrams



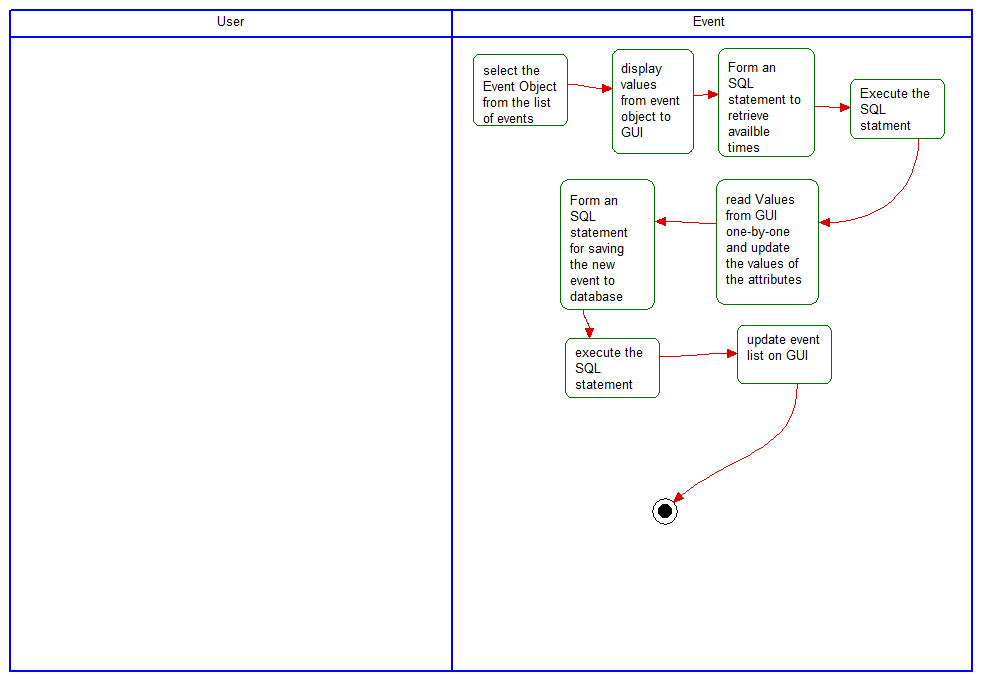
*Add Event* - This diagram shows the activity flow of the system when a user adds an event to the meeting coordinator.



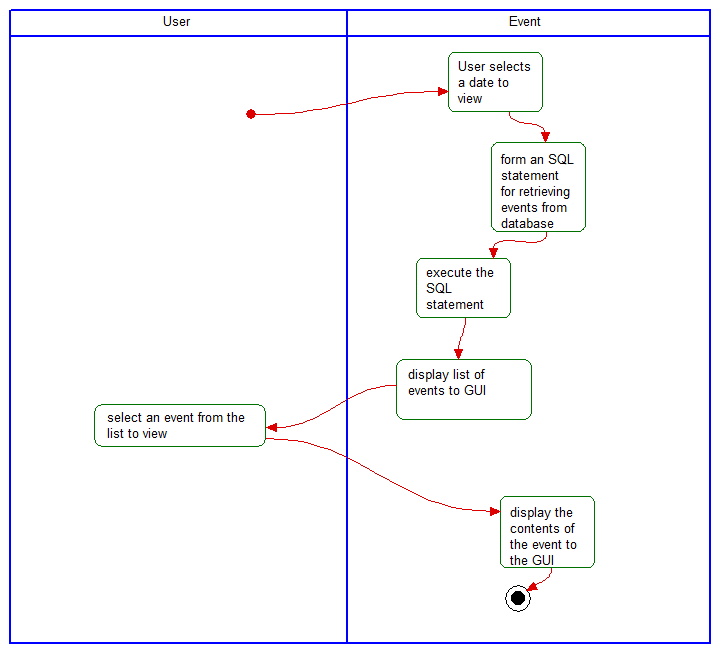
*Call Meeting* - This diagram shows the activity flows that take place to a call a meeting with the host user and the selected attendees at the selected location.



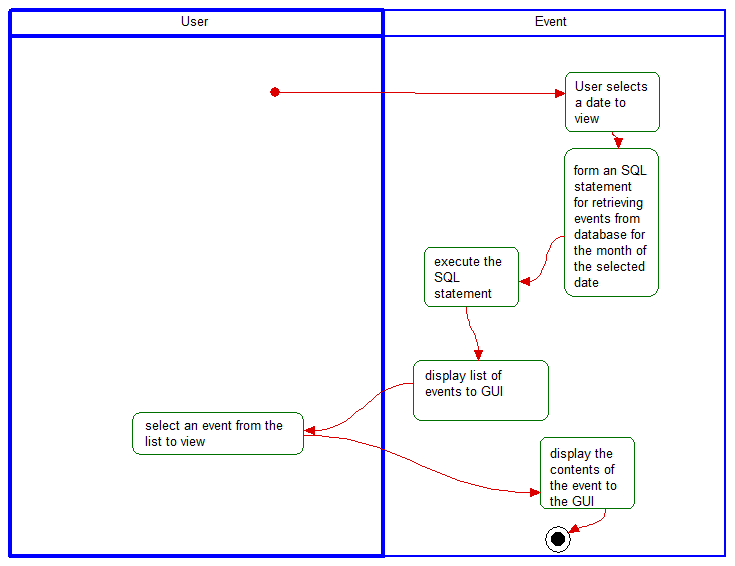
*Delete Event* - This diagram shows the activity flows that take place for a user to delete an event to from their calendar and all attendee’s calendar.



*Edit event* - This diagram shows the activity flows that take place for a user to edit an event on their calendar and all attendee’s calendar.

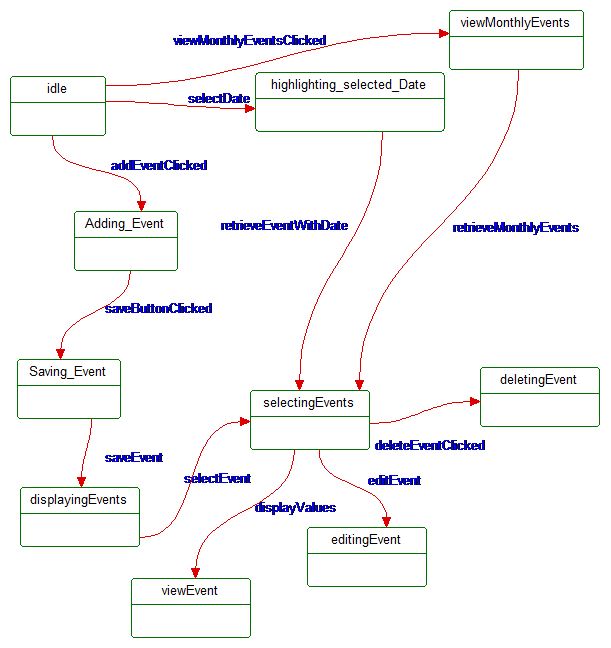


*View Event* - This diagram shows the activity flows that take place for a user to view an event that is on their calendar.



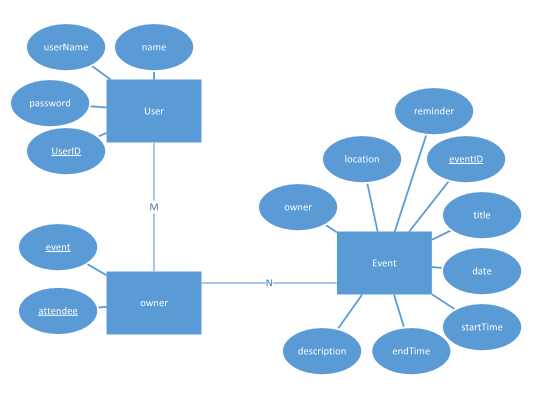
*View Monthly Events* - This diagram shows the activity flows that take place for a user to view all events for the month that are on their calendar.

# State Diagram



This diagram displays the state of the meeting coordinator system during a specific user action or system behavior.

# Database Design



User

|  |  |  |  |
| --- | --- | --- | --- |
| userID | name | userName | password |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| eventID | title | date | startTime | endTime | reminder | description | location | owner |

Event

Owner

|  |  |
| --- | --- |
| event | attendee |

# Conclusion

The meeting coordinator calendar system created allow employees at ABC, Inc to coordinate meetings based on attendants’ planners and the availability of conference rooms.

# Data Dictionary

Attendee – A different user than the host. This is a user that is added to attend a new event by the host.

Conflict – In a calendar system, this means that either the start time or end time coincides with another event or the start time takes place after the end time. This could also be because an attendee has an event that conflict with the new event or the selection location is unavailable.

Event – added by a user. These have a date, start time, end time, title, location, and description. These are tied to a specific user. A location and attendees may be added to an event.

Gregorian calendar – a solar calendar with 12 months of 28–31 days each. A regular Gregorian year consists of 365 days, but in certain years known as leap years, a leap day is added to February.

Login data – the username and password provided to employees by the company.

User – a person that has events and is used to check the availability of events. They have a username, password, and name.

Host – The user that is logged in to the meeting coordinating system. When setting up a new event, the user that sets it up is classified as the host.

Owner – the person who created the event. See host.

State – specific instance in time