Recap 2.0 UML Design

This document contains UML diagrams for rECAP 2.0. To start, this document shows how to read and understand the two types of UML diagrams, use case diagrams and flow charts, used to describe the system. The second half of this document uses these two diagram types to describe the minimum viable product design for rECAP 2.0.

Table of Contents

[Use Case 1](#_Toc33708344)

[System Boundary Box 2](#_Toc33708345)

[Actor 2](#_Toc33708346)

[System Requirement 3](#_Toc33708347)

[Relationships 3](#_Toc33708348)

[Direct Line 3](#_Toc33708349)

[Includes Line 4](#_Toc33708350)

[rECAP 2.0 Use Case Diagrams 5](#_Toc33708351)

[System overview 5](#_Toc33708352)

[Event Manager Use Cases 6](#_Toc33708353)

[Staff Management 6](#_Toc33708354)

[Venue Management 7](#_Toc33708355)

[Event Management 8](#_Toc33708356)

[Session Management 9](#_Toc33708357)

[Staff Use Cases 10](#_Toc33708358)

[Staff Section 10](#_Toc33708359)

[Flow Chart 11](#_Toc33708360)

[initiator/terminator Box 11](#_Toc33708361)

[Process Box 12](#_Toc33708362)

[Decision Box 12](#_Toc33708363)

[Flow Arrows 13](#_Toc33708364)

[rECAP 2.0 Flow Charts 14](#_Toc33708365)

[System overview 14](#_Toc33708366)

[Event Manager Flow Charts 14](#_Toc33708367)

[Staff Management 14](#_Toc33708368)

[Venue Management 15](#_Toc33708369)

[Event Management 15](#_Toc33708370)

[Staff Flow Charts 15](#_Toc33708371)

[Staff Section 15](#_Toc33708372)

# Use Case

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The use case diagram is used to describe actors and system requirements (or use cases) performed by the actors. Below we describe each component of a use case diagram in detail.

## System Boundary Box

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The system boundary box houses all system requirements that make up the system. You can think of the system boundary box as the system itself and everything inside the box is what the system can do. Everything outside the box is external to the system.

## Actor

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An actor is a user of the system. A system can have more than one actor.

## System Requirement

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A system requirement is an ability that is made available to the actor by the system. An example is the ability to manage staff or create an event for a show.

## Relationships

### Direct Line

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A *direct line* relationship shows the system requirement to which an actor must have access when using the system to be implemented.

### Includes Line

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An *includes line* relationship highlights a critical nested requirement that must be included in the system requirement. An actor is able to perform the system requirement action as well as any important nested requirements.

# rECAP 2.0 Use Case Diagrams

## System overview

The following use case describes, at the highest level, who has access to the system and what specific functionality the system must provide.

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Description automatically generated<https://www.lucidchart.com/invitations/accept/54b5fdef-efaf-4062-815c-ac57fc9885c7>

## Event Manager Use Cases

### Staff Management

The following use case provides a high-level overview of the capabilities that the staff management part of the system must provide to an event manager for managing staff.

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<https://www.lucidchart.com/invitations/accept/3c14972e-66b3-44c6-b5d4-fce113c6b280>

### Venue Management

This use case describes the capabilities that the system must provide to the event manager for the sole purpose of managing venues and venue rooms for events.

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<https://www.lucidchart.com/invitations/accept/93152d77-ba4d-43c0-9d2a-81dc3b0d32dc>

### Event Management

The following use case illustrates the capabilities that the system must provide to the event manager for the purpose of managing events.

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### Session Management

Since event sessions are at the heart of the most critical parts of the rECAP 2.0 system, the following use case describes the capabilities that the system must provide to the event manager with regards to anything related to event sessions.

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<https://www.lucidchart.com/invitations/accept/dd924859-bdaf-4b75-a6ea-a298dbcbd8e8>

## Staff Use Cases

### Staff Section

Since staff have limited capabilities when using the system, the following use case describes the capabilities that the system must provide to the staff in order to meet the system requirements.

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<https://www.lucidchart.com/invitations/accept/46f9ba83-df5a-45c1-9231-f46c0665ea1c>

# Flow Chart

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A flow chart is used to describe a workflow which lists the actions that one or more actors may perform on a system. These diagrams illustrate the high-level steps that are required to solve a task. In what follows, we describe the components that make up a flow chart.

## Initiator/Terminator Box

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The initiator/terminator box represents the start or end of a process. A flowchart must always have at least one start and one end box. If a process contains more than one decision branch where a process splits, then each branch that is non-looping (i.e. does not return to a previous part of a process) must contain a terminator box.

## Process Box

A screenshot of a cell phone

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The process box represents an action that a user or system performs as part of the workflow.

## Decision Box

A close up of a mans face

Description automatically generated

The decision box is used to create a branch in the workflow by asking a question (listed inside the diamond box) and making a decision (a branch where a workflow continues). A simple example would be a question of whether to **add staff** to an event or not. The question in this case is “add staff” and the branches would be “yes” or “no” for the event management process.

## Flow Arrows

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The flow arrows indicate the direction of progression within the workflow. The flow arrows originate from a starting box and move in the direction the arrow is pointing to the next box in the workflow.

# rECAP 2.0 Flow Charts

## System Overview

The following system overview flowchart describes the rECAP 2.0 workflow for both event managers and staff. The main purpose of this diagram is to document critical processes that satisfy the aforementioned use cases for both event managers and staff. This flowchart can demonstrate how accurately the system reflects your needs.

< Chart too large to include; please visit the link below >

<https://www.lucidchart.com/invitations/accept/d9fe7a52-8d7f-4f1f-9ae8-ea1ed1ddb052>

## Event Manager Flow Charts

### Staff Management

This flow chart describes the workflow that an event manager would follow when managing staff access to the system.

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<https://www.lucidchart.com/invitations/accept/99db7d29-6726-4062-9bda-7d77d9aefae9>

### Venue Management

The following flow chart shows the workflow an event manager follows when managing venues and venue rooms.

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<https://www.lucidchart.com/invitations/accept/941b8c0d-8443-4f8f-8306-97d8300c838f>

### Event Management

The flow chart below describes the workflow for both the event and session management parts of the system that would be followed by an event manager.

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<https://www.lucidchart.com/invitations/accept/1d19e609-fbba-43da-9d5e-23a1d61ebd7c>

## Staff Flow Charts

### Staff Section

The following flow chart provides the workflow that staff would follow when needing to edit their personal details, view the events and sessions/rooms to which they have been assigned, and to access any session-editing functionality they have at their disposal.

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<https://www.lucidchart.com/invitations/accept/e2f0a8cf-61f1-40d8-8e9a-3cb019fc546e>