Event & Equipment Manager

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Software Technology Engineering

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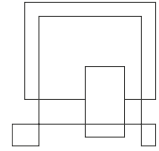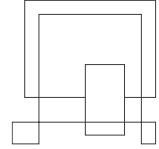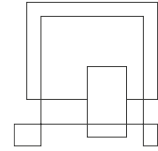
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1. Background Description

When companies in the AV industry sign contracts with customers and agree on to provide technical background for events, extensive planning and resource allocation must be done to satisfy the customer's needs.

If the company has enough resources to serve multiple customers in sort timespans (or even parallelly, with events overlapping each other), resource allocation can be hard and prone to human errors.

To further detail the problem, these companies have a finite pool of employees and AV equipments. After the customer stated its needs regarding an event, technical planning begins, regarding what equipment is going to be used to transact the event. After technical planning, planning of human resources begin, as these equipments need to be transported to and back from the event, as well as installed and dismantled, and also supervised during the event. Needless to say, these operations require employees to be executed.

To be able to efficiently allocate resources, software assistance can be introduced, making it sure to avoid human errors, such as assigning equipments or employees to multiple events overlapping each other.

2. Problem Statement

Companies in the AV industry have problems allocating finite resources, to multiple events and customers, furthermore, keeping track of equipments' unavailability, for reasons such as being under repair or maintenance.

- How could such company be sure to not assign equipment or personnel to multiple events overlapping each other?
- How could such company keep track of equipments not being available for various reasons, like being under maintenance or repair?

3. Definition of purpose

The purpose is to help companies in the AV industry allocating resources for events, like AV equipments and employees.

4. Delimitation

The delimitations of the project are:
- Due to the time restrictions and size of the problem, not all parts will be covered of the detailed issues.