CineHub

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##### TTBMP

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# Introduction

## Aim of the document

In the following document we will introduce the CineHub project, developed for the Software Engineering and Web Design course of the academic year 2020-21.

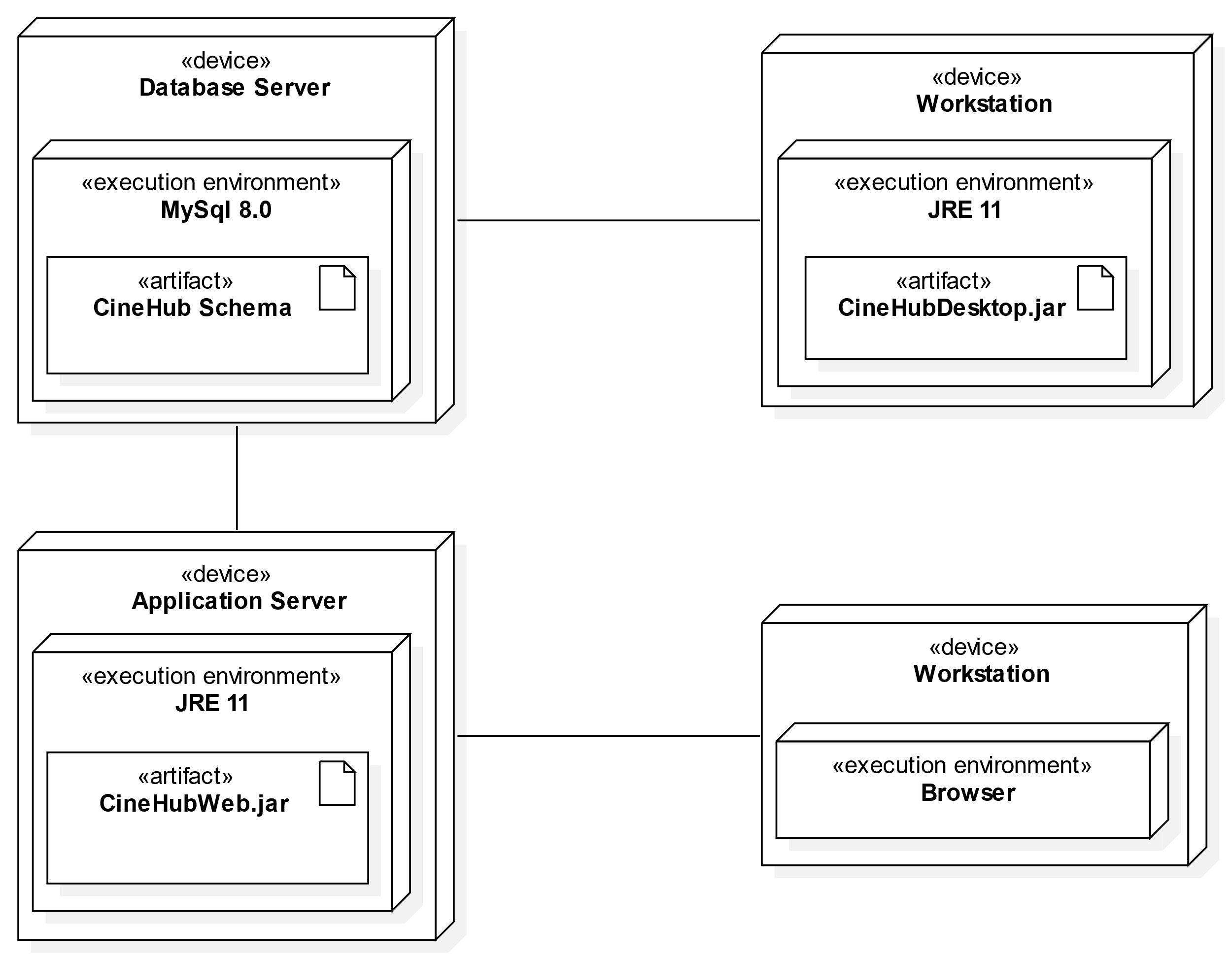
## Overview of the defined system

CineHub is an ERP system aimed to the cinema industry which offers the automation and assisted management of movie theater chains through several ERP modules.

The e-commerce and human resource modules have been designed and developed for the current version.

## Operational settings

The system provides as artifacts a desktop and a web application executable.

To deploy the system is needed a node where it is installed MySql 8.0 version or greater to host the CineHub schema.

The desktop artifact requires to be deployed in a node where it is installed the JRE 11 / JDK 11 version or greater.

The web-app artifact requires to be deployed in a node where it is installed the JRE 11 / JDK 11 version or greater.

To interact with the web-app is required a node where it is installed a latest, stable release of any major browser and platform. On and Android Browser & WebView is required Android version 6.0 or greater. Internet Explorer and Safari are not supported.

## Related systems

### POSitive® Cinema

CineHub’s main competitor is [POSitive Cinema](https://positivecinema.com), a more mature ERP solution aimed for the cinema industry.

The pros of choosing CineHub instead of this product are:

* our system can customize the ticket to buy

The cons of choosing CineHub instead of this product are the lack of several modules and dedicated hardware solutions.

### SAP® & Microsoft Dynamics

[Sap](https://www.sap.com/) ERP and [Microsoft Dynamics](https://dynamics.microsoft.com/) are the world leaders of ERP products intended for any company.

The pros of choosing CineHub instead of these products are:

* Our system is more user friendly
* Our system is more specific for cinema management
* Our system allows you to sell tickets

The cons of choosing CineHub instead of these products are:

* They are solid companies already expert in the sector
* They have many great customers
* Their modularity

# User Stories

## Fabio Buracchi

* As a customer, I want to pay for my order with my credit card\*, so that I can skip the line to pay at the cashier.
* As an employee, I want to see my shift details\*, so that I can know about my duties.
* As an administrator, I want to see the company reports\*, so that I can perform business analysis.

## Massimo Mazzetti

* As an unlogged user, I want to see the cinema projection, so that I can choose whether to go to the cinema to watch a movie.
* As an administrator, I want to define work shifts, so that I can manage the employees.
* As an administrator, I want to see a report on the employee status of the show, so that I can assert the right amount of usher and projectionist for the show.

## Palmieri Ivan

* As a logged user, I want to buy a ticket online, so I can skip the line to buy it.
* As a logged user, I want to see movies available on a specific date, so that I can choose the best day to go to the cinema
* As a logged user, I want to choose the seat to sit on, so that I can choose the position I prefer

# Functional Requirements

## Fabio Buracchi

* The system shall provide the refund of a ticket within 30 minutes of the start of the film.
* The system shall provide a list of films screened on a selected date.
* The system shall provide a validation ticket system.

## Massimo Mazzetti

* The system shall provide the availability of seats in the cinema hall.
* The system shall keep track of employee shifts.
* The system shall generate a report\* the 15th of each month.

## Ivan Palmieri

* The system shall provide a pay service with Stripe.
* The system will provide a final report\* after purchasing a ticket
* The system shall provide a login service with firebase.

# Use Case: Overview Diagram



# Glossary

## Credit card

A MasterCard or Visa credit card.

## Report

A report containing the current month’s:

* number of canceled reservations
* number of confirmed reservations
* number of not validated confirmed reservations
* total revenue for each film
* total income
* list of outgoings for the employee salaries
* list of outgoings for the film distributions
* total outcome

## Shift detail

## Report

The report shows the film, the cinema, the date and the place chosen

## Additional option

* TicketMagicBox: this option allows you to have a personalized gadget inherent to the movie you are watching
* TicketSkipLine: this option gives you direct access to the room, in order to skip the main line
* TicketOpenBar: this option allows you to have a full meal (drink and snack) served directly in the dining room