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.

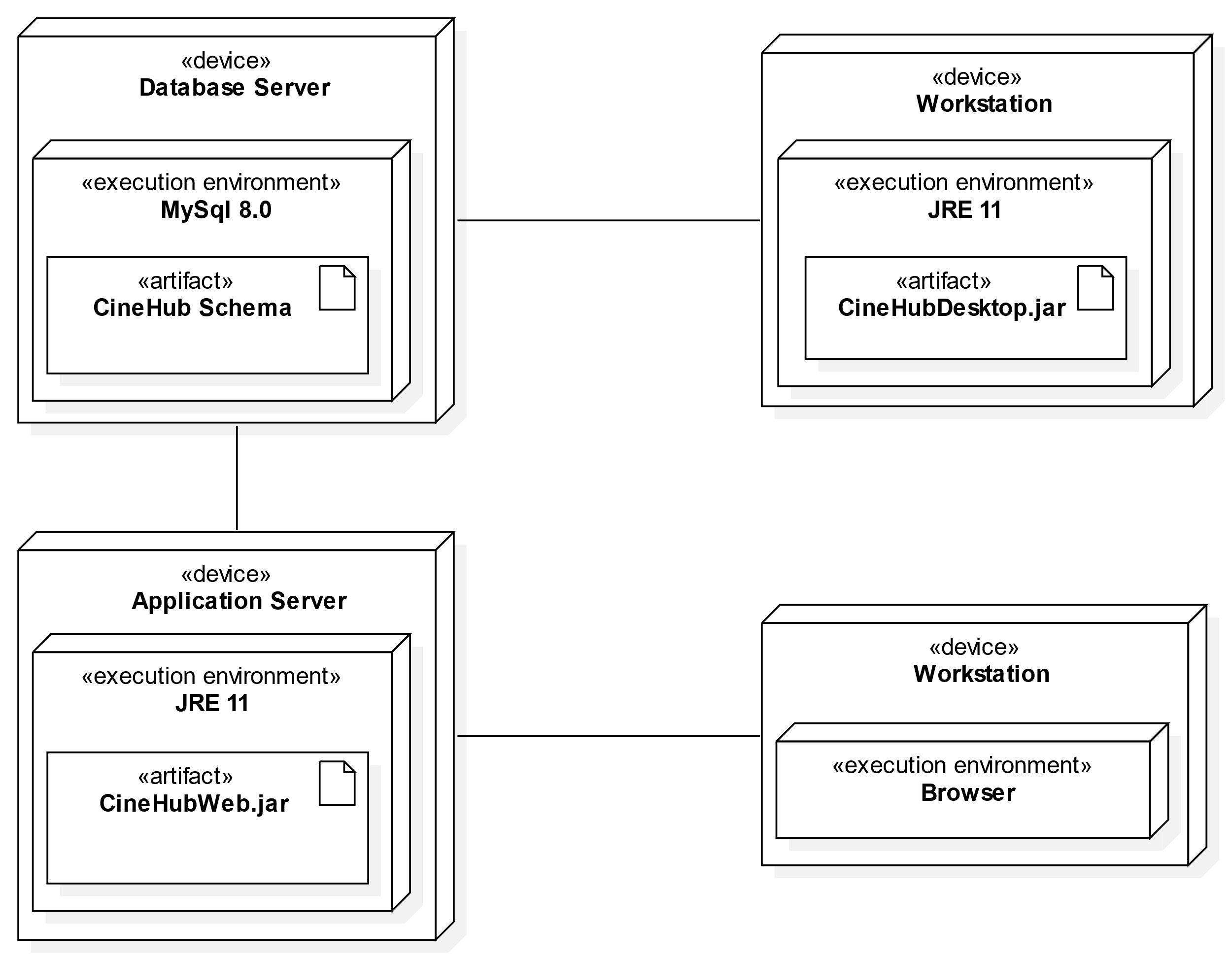
## Overview of the defined system

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 […].

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/) and [Microsoft Dynamics](https://dynamics.microsoft.com/) are the world’s ERP product leaders […]

The pros of choosing CineHub instead of these products are […].

The cons of choosing CineHub instead of these products are […].

# 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 user, I want to buy a ticket online, so I can see the movie.
* As a user, I want to be able to choose additional options\* for the reserved seat, so that I can feel at ease.
* As a user, I want to cancel my booking, to get a refund in case of unexpected events.

# 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 the 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 to a search for movie.
* The system shall provide to choose a seat to book in a cinema hall.
* 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

## Additional option

{seat heated; folding chair; skip the line}