МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ
РОССИЙСКОЙ ФЕДЕРАЦИИ

федеральное государственное автономное
образовательное учреждение высшего образования
«Самарский национальный исследовательский университет
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(Самарский университет)

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Факультет информатики
Кафедра суперкомпьютеров и общей информатики

Отчет по лабораторной работе № 2

Дисциплина: «Enterprise Systems Development (Методы проектирования и

поддержки требований к программному обеспечению)»

Тип предприятия: **«Cinema chain»**

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СОДЕРЖАНИЕ

1 Assignment #2. Specification of system requirements. Use Case diagram.

Scenarios

Tasks

1. Choose one of the company type from the excel list or use your own company type. In the course of the assignments, you will have to describe and suggest some business processes automating of the selected company.

2. Define list of high-level customer's needs, which going to be solved by the information system implementation. Not less than 5 use cases in list.

3. Create Glossary of subject domain terms, which you will use next.

4. Create Use Case diagram for the described use cases. Diagram should include situation with at least two actors collaboration. Create Use Case diagram image (png/jpeg/gif). Add image to doc report (see template in https://github.com/j-avdeev/EnterpriseSystemsDevelopment/tree/2021/Assignment%20Reports%20Template)

5. Write scenario for each use case using template: use case name, actors, goal, short description, basic script, exceptions (if exist).

6. Complete scenarios with examples of Screen forms, Documents to be created by your information system. For example, Registration Form, Acceptance Form, Bill screen, Internet invoice, Order in the online store, Medical services bill, etc.

Notice

For UML diagram plotting you can use draw.io (https://www.draw.io/), StarUML (http://staruml.io/) or another available software tools.

2 Лабораторная работа №2. Specification of system requirements.

Use Case diagram. Scenarios

2.1 Задание №1.

A cinema chain was chosen as the type of company.

The purpose of the system: online purchase of movie tickets.

Actors: client, movie server, bank payment portal.

2.2 Задание №2.

The information system allows:

1. Registration and authorization in the system;

2. Movie selection;

3. Ticket purchase;

4. Ticket refund;

5. The choice of cinema.

The system must allow authorization. The customer must register independently and enter the data necessary to purchase a future ticket. The electronic ticket is a pdf file with a QR code, with information about the cinema and the movie. When canceling a purchase, a certain amount of money is refunded to the customer (depending on how late the decision to cancel the purchase was made).

2.3 Задание №3.

Glossary:

The client is a person to whom the film is shown in accordance with the contract (ticket).

Movie server is a server that provides up-to-date and available movie tickets for booking.

The bank payment portal is a portal where money transactions are carried out online.
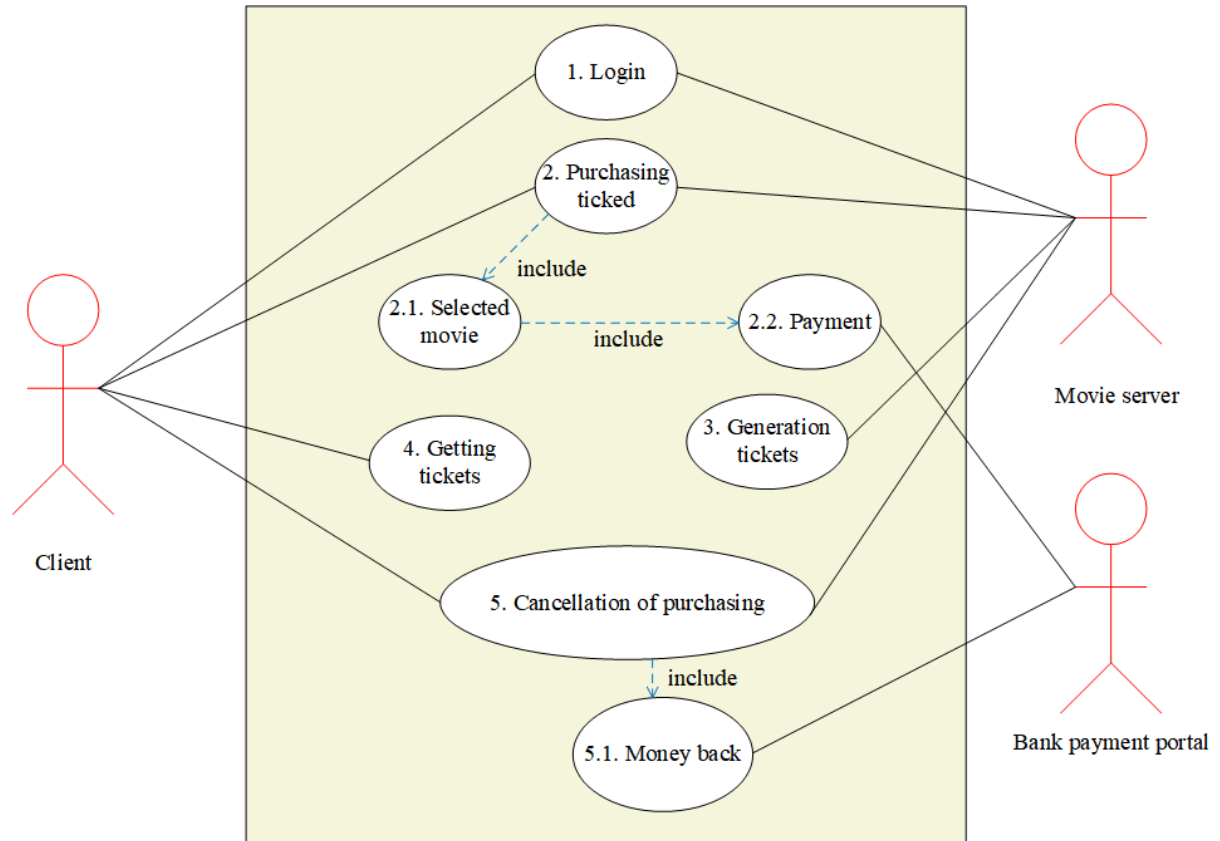
2.4 Задание №4.

Рисунок 5 – Use Case диаграмма

2.5 Задание №5.

Use Case 1

Use Case: Log in

Actors: Movie Server / Client

Goal: Create and Login to account

Short description: Client fills out the registration form to create an account in the system and login form to sign in an account.

Scenario:

1. Client goes on the website of purchasing movie ticket

2. Client click button "Registration"

3. Client fills out form

Input form:

First name: _____

Last name: _____

Email: _____

Password: _____

4. Client click button "Create account"

5. Client fills out form

Input form:

Email: _____

Password: _____

6. Client click button "Log in"

Use Case 2

Use Case: Purchasing ticket

Actors: Movie Server / Client

Goal: View and purchasing available tickets

Short description: Client purchasing tickets

Scenario:

1. Client goes on the website of purchasing movie ticket

2. Client views list of tickets

View: Tickets are listed one after another

Characteristics: tickets features shown in the tickets list (cinema, movie, price, time and date of watching the movie, seat in the hall).

Filters: The client can filter tickets by the name of the movie, cinema, price, date and time of watching the movie.

Search: The client can search for tickets by movie name, cinema, price, movie viewing date.

Use Case 2.1

Use Case: Selected movie

Actors: Client

Goal: The client chooses the movie he likes

Short description: The client selects the movie he likes using filters

Scenario:

1. The client uses filters or search

2. The client clicks the "Search" button

3. The client chooses a movie ticket suitable for all his conditions

4. The client click "Next" button

Use Case 2.2

Use Case: Payment

Actors: Bank Payment portal / Client

Goal: Purchasing a ticket

Short description: To reserve the selected ticket

Scenario:

1. The client goes to the payment page

2. Product add to shopping cart

3. Customer can continues add product in shopping cart(point 3-4) or go to payment page

4. Passenger fills out a form

Input form:

bank card number: _____

cvv code: _____

Use Case 3

Use Case: Ticket generation

Actors: Movie server

Goal: Ticket generation

Short description: The server generates a unique ticket

Scenario:

1. Create a unique ticket number, pdf file and qr code

Use Case 4

Use Case: Getting tickets

Actors: Client

Goal: To provide tickets to the client

Short description: Client receives tickets

Scenario:

1.   The client is emailed a pdf file with a qr code that he can use to get his seat on the hall.

Use Case 5

Use Case: Cancellation of purchasing

Actors: Movie Server / Client

Goal: Cancellation of purchasing

Short description: Cancellation of a purchasing due to different circumstances

Scenario:

1.   The passenger presses the "cancel booking" button and fills out the form

Input form: Reason: _____

Use Case 5.1

Use Case: Money back

Actors: Bank Payment portal

Goal: Money Back

Short description: Return the money to the passenger

Scenario:

1.   The bank performs a refund operation

2.6 Задание №6.

Онлайн-система покупки билетов в кино

Кинотеатр	«Мягкий кинотеатр» город Самара

Кинофильм	«Король лев»

Жанр	Мультфильм, драма, приключения, семейный

Дата	09 ИЮЛЯ 2019

Время	18 : 00

Зал 5	Место 6	Ряд 4

Возрастное ограничение	6+

QR CODE

Рисунок 6 – Пример купленного билета