

**School of Computing, Engineering and Physical Sciences**

**MSc Information Technology**

**COMP11113 Information Systems Analysis and Design**

**GROUP COURSEWORK 2 (60% of the marks)**

**Session 2024/2025 Term 1**

**Students**

1. Prajwalaradhya Shivakumaraswamy Kesaramadu (B01759301)
2. Aman Misra (B01746656)
3. Sreeraj Karuvanthodi Ramachandran (B01764963)
4. Muhammed Ali Panthalingal (B01755979)

Lecturer: Raja Ujjan, Ashraf Mahmud

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**Declaration**

I have carefully read and fully understand Regulations 3.49–3.55 of Chapter 3 of the Regulatory Framework of the University of the West of Scotland, which outline the rules and policies regarding cheating and plagiarism.

I confirm that this assessment is the collective work of our group, consisting of five members, with each member contributing to the completion of this task. Where applicable, we have clearly referenced and acknowledged the contributions or ideas of others outside our group.

I also affirm that no part of this assessment has been written, in whole or in part, by anyone outside the group, except for explicitly referenced sources.

Furthermore, I confirm that this assessment has not been submitted previously, either partially or fully, for any other module or academic purpose, ensuring it does not fall under self-plagiarism.

This declaration is made with honesty and integrity in adherence to the University’s academic standards.

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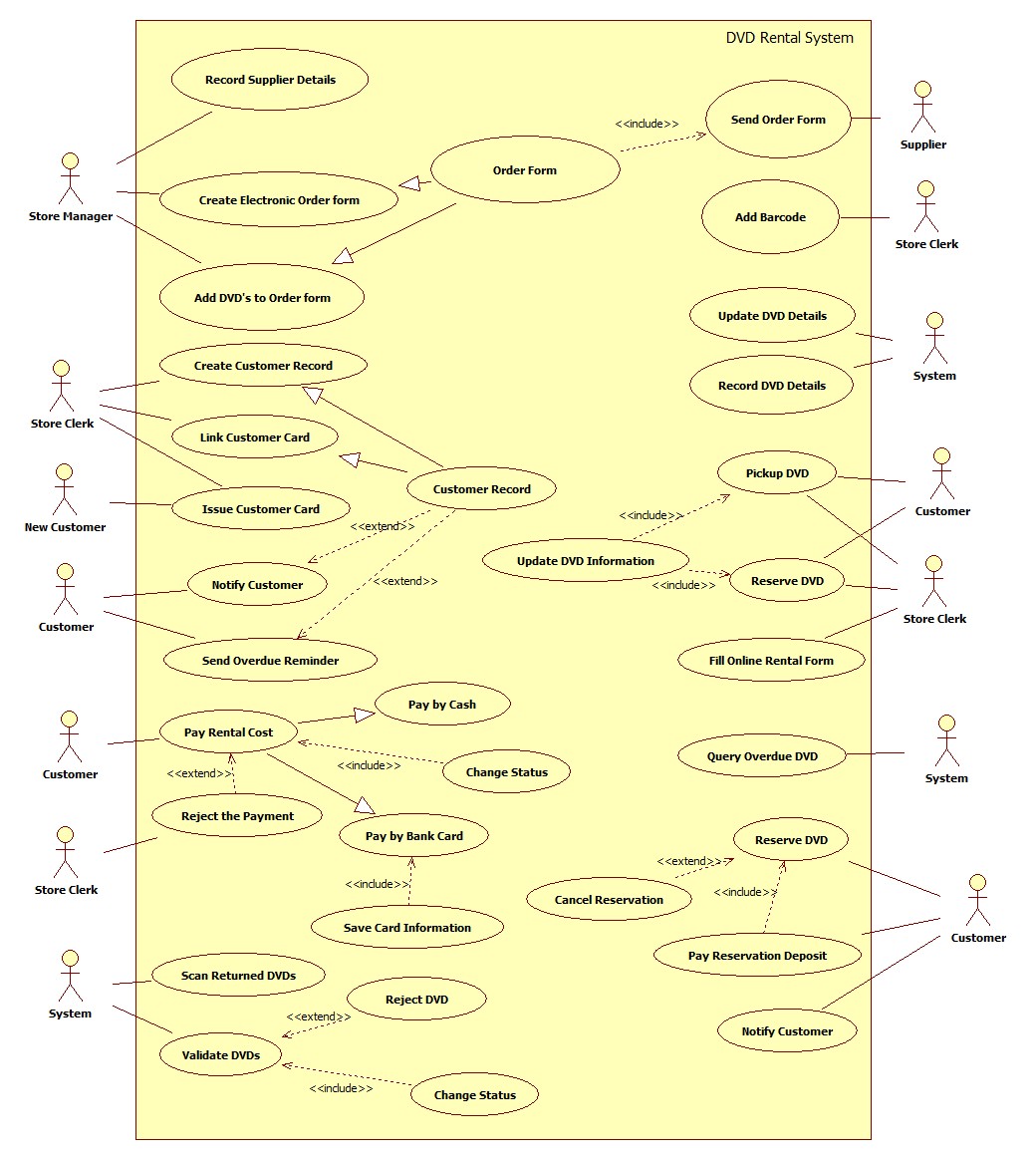
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# 1. Use Case Diagram



# 2. Structured English

Customer picks up DVDs

Clerk gets customer card to scan in the machine

If (the system accepts the card) (**special case**)

Clerk clicks the RENTAL button

Fills Online Form for the Customer

End if

Repeat

system validates barcode stored in the system

if (barcode does not match)

system reject the DVD

else

System will add a new rental line in new form with details

rental price is added to total rental cost

until (All DVDs are scanned)

Customer pay the Total Money by Cash or Card

If (card is used for the 1st time) (**special case**)

Clerk save the details of Customer and Card in System

End if

Clerk process the Payment manually

If (payment is invalid) (special case)

Clerk rejects the Payment & Clicks Cancel button (**error case**)

Else

Clerk clicks COMPLETE button to Save in the System

End if

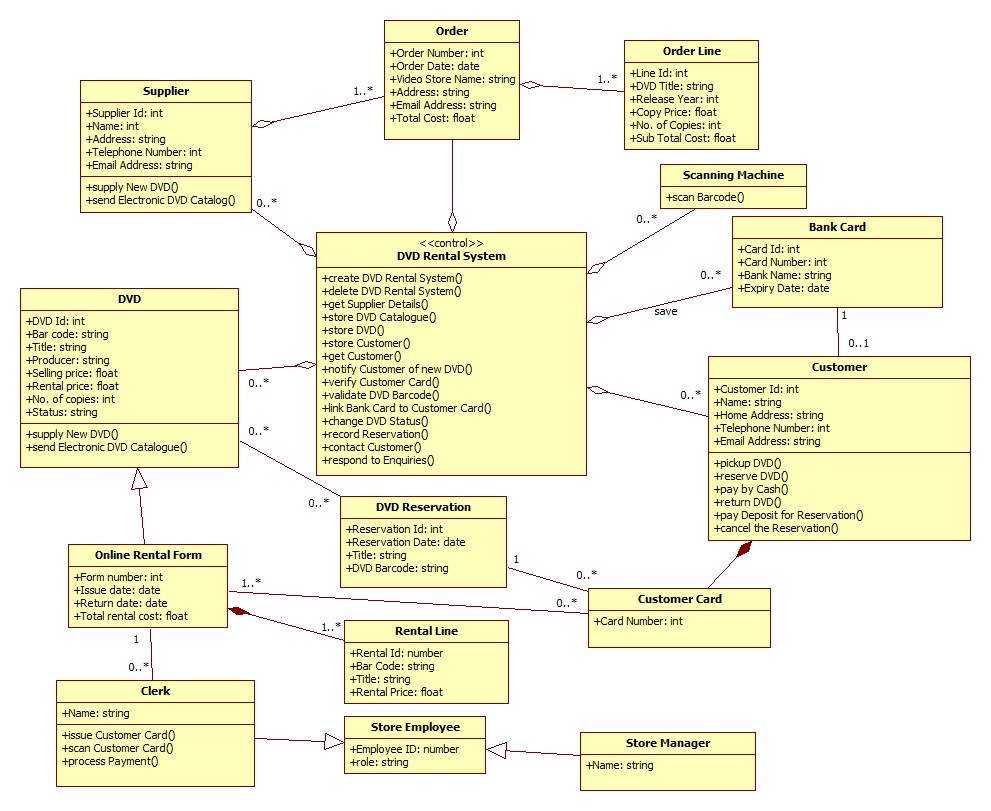
Status changes for all DVDs from "**in**" to "**out**" in the system

Show Success Message

Clerk Enters Staff number in the system

System links Clerk record to Rental form

# 3. Class Diagram



# 4. Sequence Diagram

