THE UNIVERSITY OF SYDNEY

School of Information Technologies
Faculty of Engineering & IT

ASSIGNMENT/PROJECT COVERSHEET - GROUP ASSESSMENT

Unit of Study: COMP9120

Assignment name: Assignment1

Tutorial time: Thursday19:00 **Tutor name:** Abbey Lin

DECLARATION

We the undersigned declare that we have read and understood the *University of Sydney Academic Dishonesty and Plagiarism in Coursework Policy*, an, and except where specifically acknowledged, the work contained in this assignment/project is our own work, and has not been copied from other sources or been previously submitted for award or assessment.

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We realise that we may be asked to identify those portions of the work contributed by each of us and required to demonstrate our individual knowledge of the relevant material by answering oral questions or by undertaking supplementary work, either written or in the laboratory, in order to arrive at the final assessment mark.

Project team members				
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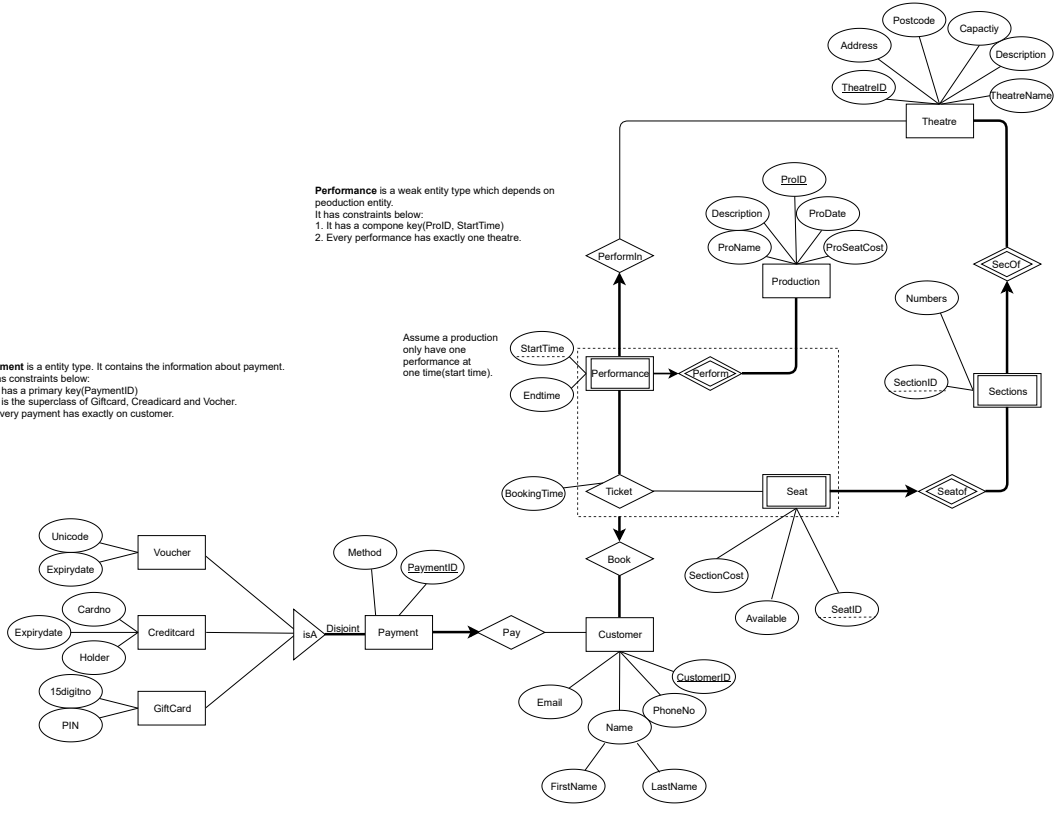

Theatre is a entity type. It contains the basic attribute information about the theatre and the primary key is TheatreID.
It has constraints below:
1. Every theatre should has a unique ID.
2. The postcode should between 800 and 9999
3. The theatre has atleast one section

Performance is a weak entity type which depends on peoduction entity.
It has constraints below:
1. It has a compone key(ProID, StartTime)
2. Every performance has exactly one theatre.

Production is a entity that present a movie such as Disney's Frozen, Romeo and Juliet, and The Lion King.
It has primary key ProID.
It has constraints below:
1. The production has atleast one performance

Assume a production only have one performance at one time(start time).

Payment is a entity type. It contains the information about payment.
It has constraints below:
1. It has a primary key(PaymentID)
2. It is the superclass of Giftcard, Creadicard and Vocher.
3. Every payment has exactly on customer.

Sections is a weak entity type which depends on Theatre.It means the seat zone. It has a sectionID and how many seats in the section which is attribute number.
It has constraints below:
1. The section should has a compond key (TheatreID, SectionID)
2. The sum of every section's seats should equals to the capacity of the theatre.
3. The section has exactly one theatre.
4. The section has atleast one seat.

Voucher is a entity type.
It has constraints below:
1. It is a subclass of Payment
2. It has a PK(PaymentID).

Seat is a weak entity type which depends on Section entity type.
It has constraints below:
1.The seat should has a compond key(SectionID, seatID,TheatreID)
2.The total number of seats should be equal to the number of seats contained in the section
3. The seat has exactly one section.

Creadicard is a entity type.
It has constraints below:
1. It is a subclass of Paymet.
2. It has a PK(PaymentID)

Customer is a entity type. It stores the attribute about the customer's information.
It has constraints below:
1.The customer should has a primary key which is CustomerID
2.The attribute PhoneNo should be unique because every customer has different phone number.
3.The customer has atribute Name and it should relate to another table which store the first name and last name.

GiftCard is a entity type.
It has constraints below:
1. It is a subclass of Payment.
2. It has a PK(PaymentID)

Ticket is a relation between Performance and Customer. It also is an aggregation. It includes the core information and the related key of others entity which connect to ticket.
It has constraints below:
1. Every ticket has exactly one customer