# Name:Abdu kadir Mohamed Abdulle

# Claa:BCS16-A

# Project Report: Movie Production

## 1. Project Overview

The Movie Production project is a web-based application designed to manage and store information about movies, actors, directors, producers, and genres. This system utilizes ASP.NET for web development and SQL Server for data storage. The application aims to provide an easy and efficient way to manage movie production details.

## 2. Database Design

The database consists of five interconnected tables: Movies, Actors, Directors, Producers, and Genres. Below is the SQL schema design for these tables.

CREATE TABLE Movies (  
 MovieID INT PRIMARY KEY,  
 Title VARCHAR(255),  
 ReleaseYear INT,  
 GenreID INT,  
 DirectorID INT,  
 ProducerID INT,  
 FOREIGN KEY (GenreID) REFERENCES Genres(GenreID),  
 FOREIGN KEY (DirectorID) REFERENCES Directors(DirectorID),  
 FOREIGN KEY (ProducerID) REFERENCES Producers(ProducerID)  
);  
  
CREATE TABLE Actors (  
 ActorID INT PRIMARY KEY,  
 Name VARCHAR(255),  
 Birthdate DATE  
);

CREATE TABLE Ratings (  
 RatingID INT PRIMARY KEY,  
 Name VARCHAR(255),  
 Rating VVALUE

);

CREATE TABLE Directors (  
 DirectorID INT PRIMARY KEY,  
 Name VARCHAR(255),  
 Birthdate DATE  
);  
  
CREATE TABLE Producers (  
 ProducerID INT PRIMARY KEY,  
 Name VARCHAR(255),  
 Birthdate DATE  
);  
  
CREATE TABLE Genres (  
 GenreID INT PRIMARY KEY,  
 GenreName VARCHAR(100)  
);

## 3. ASP.NET Web Application

The Movie Production application is built using ASP.NET Core, connected to the SQL Server database. Below is a sample code snippet for the Movie model class and its connection to the database.

public class Movie  
{  
 public int MovieID { get; set; }  
 public string Title { get; set; }  
 public int ReleaseYear { get; set; }  
 public int GenreID { get; set; }  
 public int DirectorID { get; set; }  
 public int ProducerID { get; set; }  
  
 public Genre Genre { get; set; }  
 public Director Director { get; set; }  
 public Producer Producer { get; set; }  
}

## 4. Reporting and Testing

The application provides reporting features using tools like Crystal Reports or ReportViewer. Testing is conducted to ensure the database connections, data retrieval, and web application functionality work seamlessly.