

Start April 16, 2021

Due Date April 21, 2021 , 11:59 pm

You must create at **UWP application** interacting with either **a connected database, disconnected database or Entity Framework** . You must use SQL Management Studio 2018

You will create a movie guessing game. There will be two types of players. A registered user (we will call these members) and non registered users (we will call these individuals guests).

Besides players, there is the Administrator(s).

Members need to login in to play the game. Guests do not need to login.

To perform their administrative duties, the Admin also must login.

Players will have the option to guess a movie that the application will randomly select from either a text file or from a list of movies hard coded into the system. The player must receive an appropriate message .

Changes in UI design from Assignment 2 **15 Marks**

- Explain what changes you made in the pdf

Use of various elements of UWP **15 Marks**

- Mention what elements you used in your pdf

Visual Appeal: **15 Marks**

Login for admin and Players **10 Marks**

Logout: **5 Marks**

Register a Player (think about what info you need to have of a user) **5 Marks**

Keep track of correct guesses and wrong guesses of a registered player (keep track of this in a database) **5 marks**

Give the player 3 chances to guess the movie: **5 marks**

Allow the user to guess a letter in the movie title. This does not count as a guess to the movie. If the letter exists, tell the player how many times the letter appears in the title **5 Marks**

Give the players hints to the movie they are trying to guess : **5 marks**

Admin can perform CRUD (**20 Marks: 5 per letter**)

- In your pdf, mention how you applied CRUD

In the User Interface the admin can opt to see the player with the highest score **2.5 Marks**

In the User Interface the admin can opt to see top N players with the highest score **5 Marks**

In the User Interface the admin can opt to see the player with the lowest score **2.5 Marks**

In the User Interface the admin can opt to see the bottom N players **5 Marks**

Keep track how long registered users have been members.

Special members get extra points when they get a movie correct (I will let you determine how you define special members and how much to increase their score **2.5 Marks**)

Multiple pages with data being passed between pages **15 Marks**

Use of indexers **5 marks**

Submit a pdf explaining to me how your system works and explaining your design decisions.

Total points : 142.5.

Your test will be scored out of 115.

Deductions:

Hard to use System **Up to 10%**

PDF does not explain your design decisions. An example of a design decision is using a connected database. Why did you use a connected data base over the other options . Why did you design the dataase the way you did etc. **Up to 15% . If you do not submit a pdf, your mark will be 0.**

- Do not merely show screen shots of your code and explain to me your code.
- The less questions I have of your system, the better.

Video of you demoing your application. Pretend you are trying to sell me your software. Give me a live demo of you using the system. Keep the video to a maximum of 10 minutes. **If you do not submit a video, your mark will be 0. Please follow the Identification rules as given in the previous assignments and tests. If you do not identify yourself, your mark will be a 0.**

Program crashes/ stops working (Up to 50%)

Any announcement made about the exam is binding on the exam.

