Updated Report

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Contents

Contents	1
Updated Background	2
Updated Feature List	3
Updated Use Case Diagram(s)	4
Updated ERD Diagram(s)	5
Technology Evaluation	9
Razor Pages versus MVC	9
The strengths and weaknesses of the EntityFramework and Scaffolding	9
LINQ Queries	10
Other technologies such as Blazor or PHP	10
Any technical difficulties with Visual Studio and ASP.NET	10
Team Evaluation	11
Application Evaluation	12
Screenshots Of Web Application	13

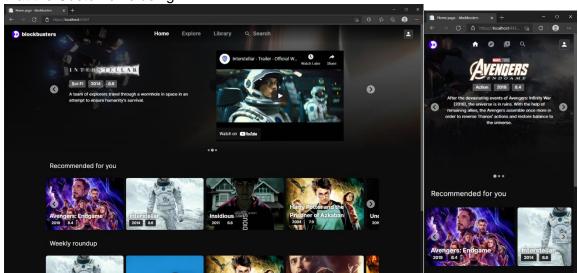
Updated Background

The background will mention any changes in the proposed features of the project such as if we added features, removed features, and why. The team did not remove any of the proposed features, this was due to the experience the team had in coding as the team wanted to make some aspects in which they did knew how to code and was in the features, so those characteristics had to be definitely stay. New features were added into the list as the team wanted to add as well as leave the features they had,

The features that had been dispersed was everything after viewing a movie such as adding movie to basket, paying for the movie and so on. We had to get rid of adding movie to the basket because the team had no experience of coding a basket feature and they had no extra time in which they could go and figure it out, in addition of having no basket the Customer could not pay for anything so paying for a movie feature had to be removed from the features list furthermore we decided on that our application will revolve around being a streaming website and not a movie buying website

The added features include a carousel and slide on the home page of the application, this was made as the team wanted to add something in which they thought would balance out all the features that were taken away and it would be something in their application in which would outstand from the other teams. The purpose of the Carousel and slide is to show movies to the Customer on the home page, this makes it easier to view movies which have been newly added or the in which the GUI suggests to the Customer they should watch based on their viewed movies. Also authorization was added this meant that Customers could not view their library unless logged in as if they tried do it will take them to the Log in Page.

The team had instead of adding my accounts page separately they had made my accounts into a dropdown within the login and register icon. My account can only be seen when the Customer is logged in to their account, in addition, a new feature the team had added was scalability. The team thought that most Customers use their mobile phone or tablets instead of laptops so they coded so the application would change based on the size of the device that the Customer is using.



As you can see the web application has scaled down to fit the size of a mobile phone, in addition it can also be fitted for a TV size and tablet.

Updated Feature List

The Customer will be able to Register an Account

The Customer will be able to Sign In with their own unique username and password

The Customer will be able to View Movies

The Customer will be able to View the Movie Descriptions

The Customer will be able to Use a carousel

The Customer will be able to Watch Trailers Via Carousel

The Customer will be able to view movies by a slide

The Customer will be able to Search Movies

The Customer will be able to update/edit their details

The Staff can Register an Account

The Staff can Login

The Staff can View the Movies

The Staff can create another staff account for additional users

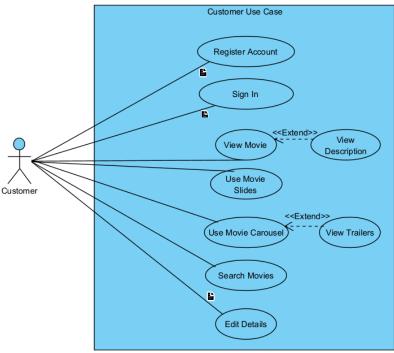
The Staff can edit Reviews

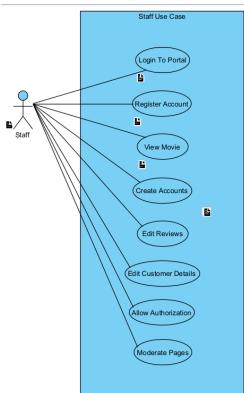
The Staff can edit Customer Details

The Staff can Allow Authorization

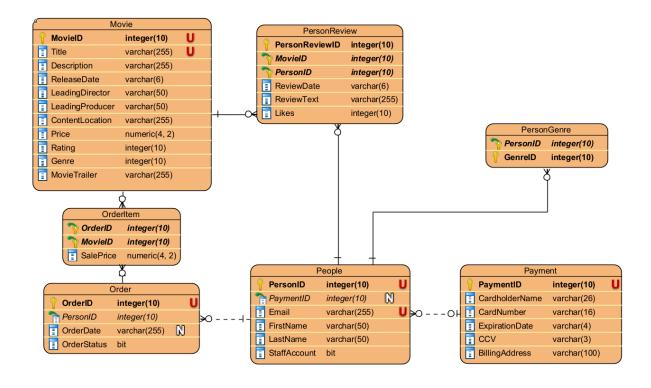
The Staff can handle modernization of the CRUD Pages

Updated Use Case Diagram(s)





Updated ERD Diagram(s)



TEST	EXPECTATION	ACTUAL	SCREENSHOT	COMPLETED	IMPROVEM
The Customer will be able to Register an Account	This process will happen	Process was completed	Register Email Email Password Password Confirm Password Password	YES	N/A
The Customer will be able to Sign In with their own unique username and password	This process will happen	Process was completed	Login Email Password Password ■ Remember Me?	YES	N/A
The Customer will be able to View Movies	This process will happen	Process was completed	Interstellar Soft 2014 8.6	YES	N/A
The Customer will be able to View the Movie Descriptions	This process will happen	Process was completed	Interstellar SciFi 2014 8.6 A team of explorers travel through a wormhole in space in an attempt to ensure humanity's survival.	YES	N/A
The Customer will be able to Use a carousel	This process will happen	Process was completed	Interstellar - Trailer - Official W	YES	N/A
The Customer will be able to Watch Trailers Via Carousel	This process will happen	Process was completed	③ Interstellar - Trailer - Official W :	YES	N/A
The Customer will be able to view movies by a slide	This process will happen	Process was completed	Avengers: Endgame	YES	N/A
The Customer will be able to Search Movies	This process will happen	Process was completed	Search Harry potter stark Builder	YES	N/A

The Customer will be able to update/edit their details	This process will happen	Process was completed	Account Account Payment Cardholder Name Bob Smith Card Account Distals First Name Bob Edit Account Distals Modify Account Email customeri@mail.com First Name Bob Last Name Smith Apply Changes	YES	N/A
The Customer cannot access staff pages	This process will happen		Access Denied Staff access only Go Back	YES	
The Staff can Register an Account	This process will happen	Process was completed	Register Email Email Password Password Confirm Password	YES	N/A
The Staff can Login	This process will happen	Process was completed	Login Email Password Password Login ■ Remember Me?	YES	N/A
The Staff can View the Movies	This process will happen	Process was completed	The Character Part of the Character Part of American Street Part of American S	YES	N/A
The Staff can create another staff account for additional users	This process will happen	Process was completed	Create Person PaymentID 234 Email staff@email.com First Name Staff Last Name Person 2 Staff Account Create Back to List	YES	N/A

The Staff can edit Reviews	This process will happen	Process was completed	PersonReview MovieID A team of explorers travel through a wormhole in space ir PersonID Korban234@email.com Review Date 05/07/2019 09:11:50 Review Text great movie Likes 1 Save Back to List	YES	N/A
The Staff can edit Customer Details	This process will happen	Process was completed	Edit Person PaymentID 448 Email Korban234@email.com First Name Korban Last Name Melendez Staff Account Save Back to List	YES	N/A
The Staff can Allow Authorization	This process will happen	Process was completed	blockbusters© 2022 Staff Access	YES	N/A
The Staff can handle moderization of the CRUD Pages	This process will happen	Process was completed	Mark Number Proping Mark Column Column	YES	N/A

Technology Evaluation

The advantages of ASP.NET Core versus legacy ASP.NET

As ASP.NET Core is the newer and more improved version of the .NET framework, there are several advantages that come with it. Some of the key advantages of using ASP.NET Core versus legacy ASP.NET are that the former is open-source as well as cross-platform, broadening the spectrum of what the framework can be used for. One other advantage lies in the fact that Core has robust Cloud support, and supports modular architecture better than the legacy ASP.NET. One reason for teams to use ASP.NET instead of Core could be that a given project might have been in development before its introduction, consequently allowing teams the choice of not using Core as it would take time to learn and deadlines might have to be met soon. On the other hand, ASP.NET Core might be used instead for the fact that the interface looks better, as well as an unconscious need to follow the market updates, which means using a newer platform. Technologically, .NET Core has more advantages, such as: more precise dependency control, faster performance, and a better interface. Ultimately, ASP.NET Core is "better" because it is more recent, therefore it will receive more updates and feel more up-to-date.

Razor Pages versus MVC

MVC is action and entity-focused while Razor Pages are page-focused. This interesting fact makes for a specific crutch of using MVC, as entities in MVC applications mostly start with simple CRUD operations, making it typically short-lived and easy to have controllers become too full, as more actions are needed. Razor Pages on the other hand allows for each page to focus on one activity each, giving them space by making them smaller. Another significant advantage of Razor Pages over MVC is that they are simple, due to its architecture being condensed, page-focused, and intuitive. While there are certainly parallels to draw between the two, Razor Pages maintains a strict separation between the markup and page model. This lack of separation in Web Forms made unit testing difficult and, in many ways, violated the separation of concerns principle.

The strengths and weaknesses of the EntityFramework and Scaffolding

EntityFramework is a tool that enables developers to work with data using objects of domain specific classes without focusing on the underlying database tables and columns where this data is stored. Some advantages of using it include: auto generation of code, reduction of development time and cost, allows multiple conceptual models to be mapped to a single storage schema, and it provides unique syntax for all object queries whether it is database or not. Some disadvantages of using EntityFramework are: lazy loading (loading items only when the user can see them), complicated syntax, It does not work if there is a need to change any schema of the database. An update would be needed to the schema on the solution, and that Its logical schema is not able to understand business entities and relation among each other. As for Scaffolding, its main advantage is that it saves time building applications, as it generates code that can be built on.

LINQ Queries

Language-Integrated Query (LINQ) is the name for a set of technologies based on the integration of query capabilities directly into the C# language. It is used to retrieve data from different sources and formats. It is used in a similar way to SQL, although it is built into C# and VB.NET instead. LINQ queries return results as objects, and it allows the user to use and object-oriented approach and to not worry about turning different formats of results into objects. LINQ queries have many advantages, such as: offering a common syntax for querying any type of sources of data, closing the gap between relational and object-oriented approaches. Some disadvantages of LINQ include, but are not limited to: it is not complex enough to write complex queries like SQL, its performance is degraded if the LINQ query is not written correctly, and the fact that LINQ does not take full advantage of all SQL features, such as cached execution plan for stored procedures.

Other technologies such as Blazor or PHP

Blazor is an amalgamation of the words Browser and Razor (mentioned earlier), and it is a SPA, or a Single Page Application development framework. It works by substituting the need to have to execute Razor views on the server in order to present HTML to the browser, but instead it executes these views on the client. Since Blazor offers access to different renderers, developers have an easier time developing UI not only for web applications but also for native mobile apps, for example. Its use also brings many benefits, among them are: Blazor runs in a memory-safe, sandboxed environment and is fast when it comes to execution, and Blazor-made applications can be deployed and executed like static files, where the machines don't have .NET. When it comes to Microsoft Blazor, the development is conducted using C# which makes it an easier transition for the .NET developer.

Any technical difficulties with Visual Studio and ASP.NET

With the database being managed by Microsoft LINQ being more SQL proficient there was a learning curve to adjust to LINQ syntax, also adding database migrations well into development of the program can be a hassle as the generated CRUD pages would have to be adjusted manually to cater for changes in the database. Although this does ensure consistency throughout the web application. Another issue the team had was Regular Expressions being used when seeding the database, the regular expressions were easily solved, the issue was Visual Studio was showing no issues coming up which made it difficult to see where the problem needed to be fixed.

Team Evaluation

The Blockbuster project evaluation will contain information about everything that happened after the design aspect such as how well or bad did the implementation go. We will be evaluating the team and the project piece by piece.

First I wanted to mention how we planned to implement each part of the web application. Each week we were set a task that we had to complete by the next such as CRUD Pages, seeding the databases and so on, so each week a task that was set by the teacher was completed and that was how we planned the tasks. The Order of the tasks was again set by the teacher but it was mainly having all the details of each product, customer and everything ready first then allowing us to implement things such as buttons, different pages such as my account, a staff portal and basket. So each week the plan would be to complete the task set by the teacher, if we had completed that we would move onto next week's task in the order.

The project planning tools we mainly used were social media, we used social media platforms to communicate with each other and have weekly meetings, this allowed a team leader to set tasks and deadlines in addition with being able to see if they were met and if not why and keep a record of who did what by when.

Where We Went Wrong is When we seeded the data into the database we were confronted by a complication that some of the data would not seed, we found that the issue was brought up by unsuitable data in the DB initialiser and the data that was unfitting was Regular Expressions that had no reason or relation to anything in the solution and in many pieces of data there primary keys starting at 0 and the solution to fixing these issues was commenting out the regular expressions and changing the primary keys that were 0 to 10, this allowed the data to be seeded.

In addition, we had a made a User Interface using bootstrap and when implementing that UI onto the Visual Studio project, everything in the footer and header had been mixed up allowing headers and footers to clash, we fixed this by getting rid of the bootstrap project out of the Visual Studio project, working on it a while longer and when it was finished we then merged them together.

What went well was everything else as we did not meet any other problems with anything else, as images were easily implemented with the movies, all the CRUD pages seemed to work, overall nothing else was an issue.

If we could change something about our project it would be the products of the project, we tried making something better than Netflix or any other streaming website which was a bit too ambitious, if we had made an application based on a product which had not application for it we would not have any expectations to meet apart from our own. But at the end we came up with something unique,

Haroon Sadiq took the task of making sure a good User Interface was generated as this was something which had not been required and could get us an outstanding grade, he also made sure the merge of both projects went well, furthermore he disputed any inconsistency with the project design and the features, as if there was something which we had done was not listed in the features he would list it down, or if there was something which we had not covered in the features list he would let the team know.

Mauro had the task of filling in the inconsistencies, as if Haroon had notice that a piece of the code was missing, he would let Mauro know, who would then fill in that piece and make sure it all matched up with the rest. Mauro also had the tasks of inputting the actual products of the application such as the name, review, description and so on.

Hassan had the task of making sure all the weekly tasks for the code were generated and working, this meant watching each video and being able to implement the code into Visual Studio and have a running application with all the necessity features such as logging in/register, a products page, staff portal, seeding of the data and so.

Application Evaluation

All proposed features were met such as logging in and registering for a Customer and Staff, being able to utilise all the CRUD pages, sorting, searching, filtering and paging, with the addition of having file uploads.

The features there were not met were the Basket, but the reason for this is that the application is meant to be a streaming website not a movie buying website, so having a basket would be necessary the only thing we needed was pages where the Customer could see the Movies they had liked, recently watched and are recommended for them.

The whole project is 100% complete as we have met all the features we wanted to have and we could not think of any other features we needed or would be appropriate to add.

The feature which needed more work to be implemented was the basket, the team had planned on making an order basket in which the Customer would have been able to see which Movies they had added and they could remove but this feature was planned to be generated at the end and again the team had little to none experience on making a basket and no time in learning. But as I previously mentioned this was a Movie Streaming application not a buying application.

If we could extend or develop our application with the right time and experience, we would have added subscriptions for different Customers such as for Children, Students and adults as this would really be similar to Netflix but in my opinion we have matched Netflix and possibly done something better.

Our weakness was our time limit, if we had extra time we could definitely add the extra few things that would have really pushed us to 100%

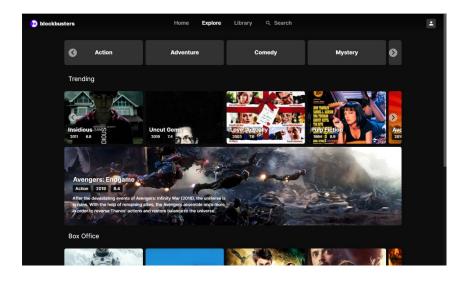
Our Strengths were being able to see a task was finished once it was started, this meant that once we had started a task such as seeding the database we would not stop until that task was completed before moving onto the other tasks, but sometimes this could be seen as a

weakness as at sometimes two people would have been working on the same task which only needed the focus of one.

Screenshots Of Web Application



Here you can see Harry Potter, with its description, price of the movie, placeholder button to buy a movie, Genre, Year it was made and the Rating.

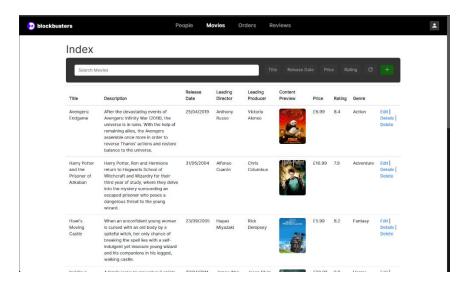


Here is the page where all the movies can be seen such as different topics such as Box

Office and Trending, each topic is moved by a operating slide and also on the top movies can be sorted and filtered by the Genres.



This is the Staff Portal where the Staff can edit details of the Customers, View the Details and Delete a Customer Account. This can only be accessed by a Staff when logged in, as if a Customer tries to access the Staff Portal it will not allow authorization.



Above you can see the Staff Portal where the Staff can Edit, View or Delete a whole movie as you can see with the Avengers Endgame it has a Kung Fu Panda image, this is there to reveal our File Upload feature, where the Staff can upload new images of the Movies if new posters are to be released.