

# QA Final Project Portfolio (Team: Runtime Terror)

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## Project Outline

For the final project of the QA Academy, we, consisting of Danyel Harrison, Shai Lynch, Onur Hassan and myself, were tasked to create a website suitable for a cinema, using Spring Boot API application and a JavaScript Front End that meets a criteria, including required webpages and the functionality and content within each page.

## My Role

The roles in the group were split up between us all, but my main roles were being a lead with back end testing, along with Danyel, and creating the various webpages and functionality for displaying and interacting with the film pages.

## My Project Diary

### Day 1 – Friday 26<sup>th</sup> August

The first day consisted of the group planning through creating an ERD and UML diagram, plus agreeing on roles within the project.

Helped with setting up the Jenkins pipeline to make sure it was working before we began working on the repo.

My solo task for the day was to create the Risk Assessment, which a section can be seen below.

	Risk	Statement	Response	Objective	Likelihood	Impact	Risk Level				Minimal	Minor
1	Strain injuries	Working for too long may induce strain injury	Get up and move around every now and again	Maintain a reasonable level of comfort while working	Expected	Minimal	4			Guaranteed	5	10
2	Spillage on Laptop	Spillages or dropping crumbs on a laptop can cause it to stop functioning correctly	Ensure an even firm surface and all food and drink are kept well away from the work area	By having to leave the work desk for food and drink breaks can keep the area tidy as well as helping with reducing strain injuries, but most importantly, stops any accidental damage to the laptop	Possible	Major	8			Expected	4	8
3	Electrocution	Faulty wires or plugs not correctly used can cause shocks or electrocute someone if they touch those areas	Maintain and replace any damaged wires and make sure all plugs are fully pushed in to their respective sockets	Electrocutions can be fatal, so making sure everything is in good working order, especially wires, and have been correctly used will help reduce exposure to metallic components	Likely	Severe	15		LIKELIHOOD	Likely	3	6

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## Day 2 – Tuesday 30<sup>th</sup> August (Bank Holiday Monday)

I spent Day 2 taking the lead and working with Shai to create the Service Testing for Movies, Customers, Bookings & Viewings where we were able to, at time of writing, to achieve testing coverage of 98%, 95.7%, 97.4% & 97.4% in their respective files.

A sample of the service testing:

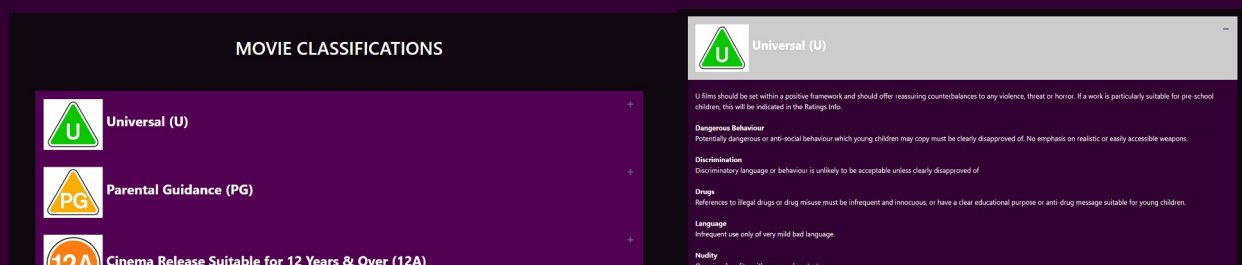
```
@Test
public void createScreen_validScreen_SaveScreen() {
    Screen validScreen = new Screen(1L, 200L);
    Screen saveScreen = new Screen(200L);

    Mockito.when(this.service.addScreen(saveScreen)).thenReturn(validScreen);
    assertEquals(validScreen, this.service.addScreen(saveScreen));
    Mockito.verify(this.repo, Mockito.times(1)).save(saveScreen);
}
```

## Day 3 – Wednesday 31<sup>st</sup> August

Following on from Day 2, I continued with Shai to create testing for Customer Controller (100% Coverage) and Screen Controller (100% Coverage). After achieving this, we broke off to work on our own, and this is where I made some changes to the back end code for films, as I had noticed elements were incorrect. There were several changes that needed to be made, and I updated the corresponding tests to reflect the changes.

After lunch, I began working on the front end side of the project. My first task was to create the Classifications page, using JavaScript, HTML and CSS.

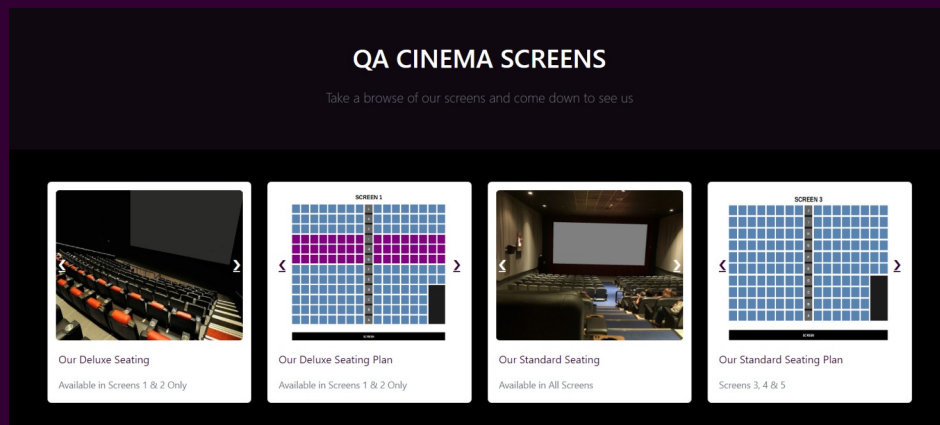


Once completed I began on the Screens page, which I carried over to Day 4.

## Day 4 – Thursday 1<sup>st</sup> September

Thursday began with the continuation of the Screens page. I sourced the interior photos of the cinema from Vue Cinemas, and edited those pictures to remove their logos. I also created seating layouts for five different screens, as required as part of the MVP. This page required an adaptation of a JavaScript slide-show function that I had previously used on my own portfolio website. Once working, I moved on to the main Films page, where all the films being shown at the cinema would be displayed.

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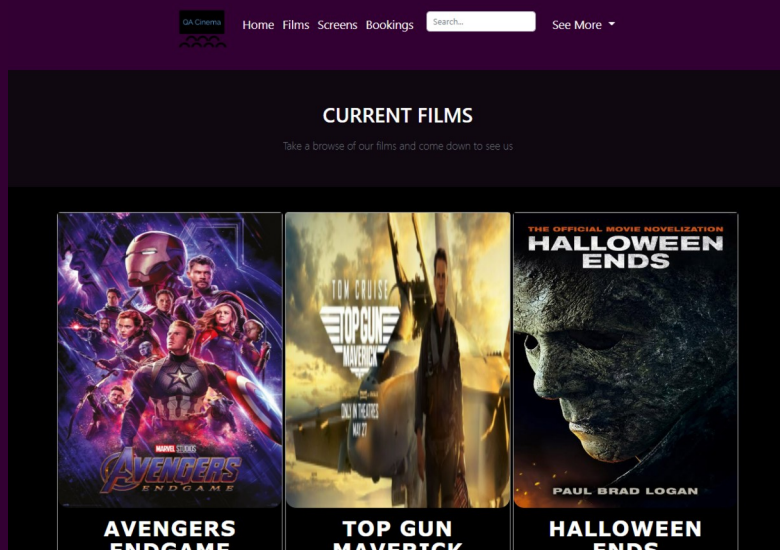


## Day 5 – Friday 2<sup>nd</sup> September

I finished the day with the completion of the Films page and half of the CRUD functionality working on a Film Admin page, where a user can go and add (through a modal box), delete and update the films in the database.

The Films page is probably the only page I went against the wireframe design, though I did seek approval from the group before I went in the direction I did, with the outcome being praised. The general template for the page was one I adapted from Ajeet Jumar's movie poster CodePen.

The idea behind the Film Admin page was to only allow those with admin privileges to view the page, however we were unable to create the login functionality before the end of the project, so has been left as a page anyone can access through a small link at the bottom of the Films page.



Top of the Film Page. More info of the film seen when scrolling down on the site.

## Day 6 – Monday 5<sup>th</sup> September

The start of the new week saw me finish off the Film Admin page, including adding icons for the delete button (Created by myself) and the button/indicator for if the film is a new release (Sourced from Icons8.com).

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The rest of the day I spent helping others and debugging their code, which did require some more changes to the back end code, which I did, as well as updating the relevant tests once again.

FILMS ADMIN									
Welcome to the Film Admin Section Here you can Add, Update or Delete Films									
<a href="#">Add A Film</a>									
Title	Poster	Age Rating	Release Date	Genre	Cast	Runtime	Description	New Release?	DELETE
Top Gun Maverick		15	2022	Action	Tom Cruise	126	Action-filled battle to train graduates for a special Top Gun Assignment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Halloween Ends		18	14-10-2022	Horror	Jaime Lee Curtis	137	the conclusion to the mike myers story	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## Day 7 – Tuesday 6<sup>th</sup> September

I discovered a missing element of the MVP was for each film to have four pictures, which I then had to create the functionality for in the back end, with testing being updated. Initially, I added the 3 extra images (a poster image was already included in the initial code) was to be on the Films page, however I didn't like the effect it had on the page, so thought it would be a great little extra for the Individual Film pages.

With the help of Danyel and using the way he managed to create a dynamic script for his discussion board and threads, I adapted his code to make it work for the Individual Film pages. The layout for this page was set to be similar to the layout designed for the Films page, where the information would appear side by side, rather than in one long box. The inspiration for my layout came through Vetri Suriya's Price Component CodePen, which I took and altered to meet the vision for the page.





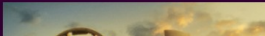
BOOK

### Show Times:

Monday:  
Tuesday:  
Wednesday:  
Thursday:  
Friday:  
Saturday:  
Sunday:

**Runtime:** 126 | **Genre:** Action | **Released:** 2022

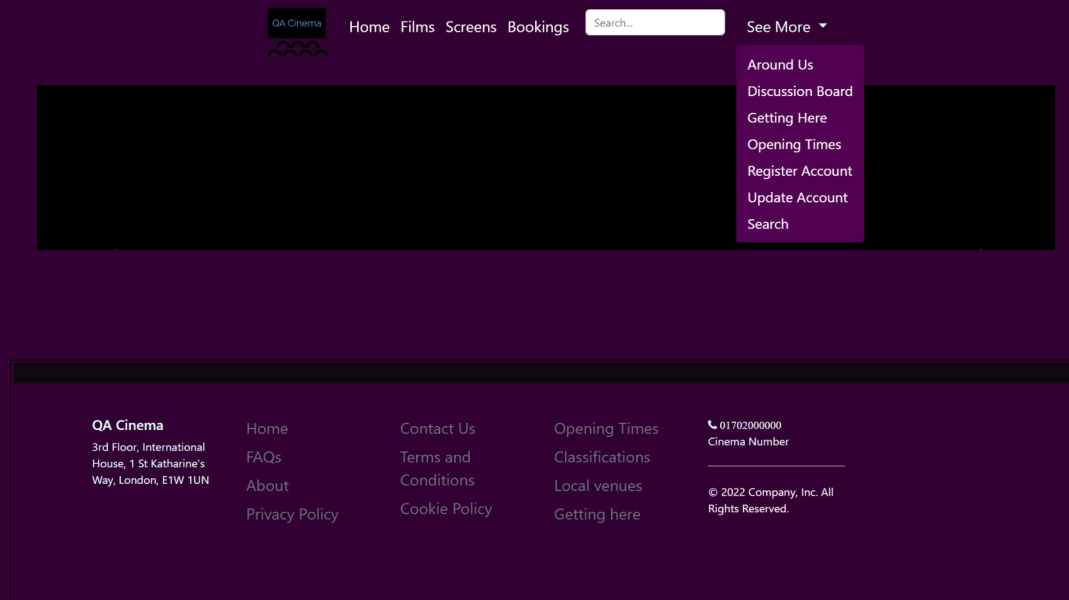
Plot: Action-filled battle to train graduates for a special Top Gun Assignment



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## Day 8 – Wednesday 7<sup>th</sup> September

Wednesday saw me finish the JavaScript, HTML and CSS for the Individual Films page. The rest of the day I spent ‘house keeping’, as I had noticed we had somehow diverted off from the agreed styling, so I spent timing making sure all the Headers and Footers were the same, updating the links, and removing any duplicate or unused styling. This helped bring the whole project inline, creating a more uniformed and professional look.



## Day 9 – Thursday 8<sup>th</sup> September

Final day of coding before the presentation. Onur had given me the logo, which I added to the Header and made it a link to the Home page.

As a group we ran through the whole project, checking how much of the MVP we met, and if there was any last minute things we could add to the site. Of course, with it being the final day, there were bound to be errors that we hadn't encountered previously in the project, so the majority of the day was spent fire fighting. Despite working at the beginning, the Jenkins file failed to run correctly, there were other issues too that happened once all branches were merged and the app was running live, but thankfully as a group we managed to solve those problems to create a final project I am pleased with.

### **Special Thank You To:**

Danyel Harrison, Shai Lynch & Onur Hassan

QA Tutors: Ed Renyolds, Jordan Harrison, Piers Barber, Chris Yiangou & Leon Robinson

Icons from Icons8.com

Cinema Interior from Vue Cinemas

Layout CodePens from Ajeet Kumar & Vetri Suriya

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## Additional Screenshots of My Work:

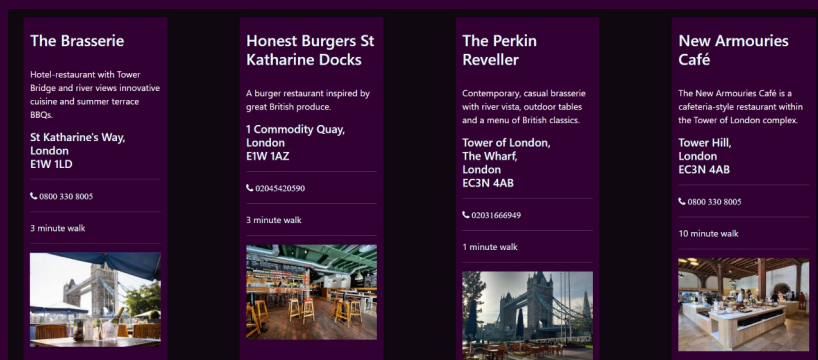
A screenshot of a modal titled "Add Film" with a close button (X). The form contains the following fields: Title (with a sub-label "Film Title"), Release Date (format DD/MM/YYYY), Runtime (in Minutes), Cast, Genre, Age Rating, Description, PosterUrl (example: https://website.com/images/imageID.jpg), Movie Still (example: https://website.com/images/imageID.jpg), and another Movie Still (example: https://website.com/images/imageID.jpg). At the bottom are "Close" and "Add Film" buttons.

A screenshot of a table with the following structure:

	Description	New Release?	DELETE
	Action-filled battle to train graduates for a special Top Gun Assignment	✗	
	the conclusion to the mike myers story	✓	

Close Up of Film Admin Page

## Modal for Adding a Film



## Altered the styling of the Around Us page

```
@CrossOrigin
@PostMapping("/add")
public ResponseEntity<Movie> addMovie(@RequestBody Movie movie) {
    Movie createMovie = service.addMovie(movie);
    return new ResponseEntity<Movie>(createMovie, HttpStatus.CREATED);
}

@CrossOrigin
@GetMapping("/{id}")
public Movie readMovieById(@PathVariable Long id) {
    return service.readMovie(id);
}

@CrossOrigin
@GetMapping("/title/{title}")
public Movie readMovieByTitle(@PathVariable String title) {
    return service.readMovieByTitle(title);
}
```

## Back End Controller Code for Films

```
public Movie newReleaseMovie(Movie newReleaseMovie, Long id) {
    Optional<Movie> currentMovie = this.repo.findById(id);
    if (currentMovie.get() instanceof Movie) {
        Movie oldMovie = currentMovie.get();
        oldMovie.setNewRelease(newReleaseMovie.getNewRelease());
        return repo.save(newReleaseMovie);
    }
    return null;
}

// delete
public boolean deleteByMovieID(Long id) {
    Optional<Movie> currentMovie = this.repo.findById(id);
    boolean isPresent = (currentMovie.isPresent()) ? true : false;
    if (isPresent) {
        this.repo.deleteByMovieID(id);
        return true;
    } else {
        return false;
    }
}
```

## Back End Service Code for Films

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