



QA Cinemas

Team Trap



Introduction

Team Trap

QA Academy

- Daniel Ahuchogu
- Ayesha Raja
- Waleed Tahir
- Siddartha Gurung
- Hamza Pervez



Project requirements

- The aim of the project was to create a Full-Stack Web application utilising the tools and technologies taught throughout training.
- Requirements initially taken from the project specification and discussed amongst the team in daily SCRUM meetings, working adhering to Agile methodologies and principles.
- Used Moscow analysis to prioritise requirements from project specification.
- GitHub central repository used to add code amongst the team.



Scope

- Agile approach taken throughout the project
- Sprints, user stories, acceptance criteria and story points.
- Coded into a central repository - GitHub.
- Application split into two parts.
- Testing for frontend and backend.

Sprint Plan

Website Requirements Design

User Stories No.	Front End	Back End	MongoDB
1	Home Page (attractive homepage, navbar with links to other pages), the site should communicate with the viewer purpose of the site.	-	-
2	Listings-Gallery (images-at-least 4)	Listings-Gallery (pulling-info)	Listings-Gallery (Title,actors, directors-and showing-times)
3	Opening-Times (site-navbar,detail-page-of opening-times-for-cinema)	-	-
4	New-Releases-Gallery (new-film-images-at-least 4)	New-Releases-Gallery (Pulling-info)	New-Releases-Gallery (Title,actors, directors-and showing-times)
5	Classifications-page (part-of-overall-site-nav) (answers-questions-about film-classifications-as-well as-other-facts)	-	-
6	Screens-page (info-about-seating-plans)	-	-
7	Ticket booking page (page where customers can book tickets) (form to collect information)	Bookings (submit-form)	Bookings (movie-title, screening date-and-time, name-of booker, number-of-seats; adult, child, concession)

10	Getting There (page dedicated to location of the cinema and how to get there)		
11	Discussion-Board (page-dedicated-to discuss-movies-and-their experiences)	Comments / Threads (posting-comments-to the-backend)	Backend Storing-comments-in-the database / threads-etc
13	Site feature that allows search by keyword,initial search text,enter search term on click which are overwritten as user types	Results are returned when the search button is clicked	
14	Email form for visitors so that email address is not exposed,mandatory subject, built in an email format,valid email format		
15	About page part of overall site navigation,Name of team members appears on page,any accompanying information e.g. twitter handle,email address etc, Must have a link to the contact page		



Project Management - Jira Board

- With the specification, highlighted the key aspects of the website in terms of the MVP.
- To design some specific user stories and requirements.

1

As a user I want to be able to select a film.
So, that I can book or pay for that film whilst on the website.

2

As a user I want to be able to visit the website and click on the Navbar. So, that I can view all the latest film in the gallery.



























3

As a user I want to be able to click the Getting there section on the navbar .
So, that I can see the directions to get to the cinema.

Project Management - Jira Board

The page shall be the default for the entire site 📄 🚀 TQM-28						
An attractive homepage 📄 🚀 TQM-30						
Starting from the home page, site users may navigate to other areas of the site 📄 🚀 TQM-32						
The site should have a picture or graphic evocative of the movies or the cinema on it 📄 🚀 TQM-33						
Communicate to the viewer the purpose of the site 📄 🚀 TQM-35						
🟢 TQM-24 TO DO 2 sub-tasks 3. As a user I want to be able to click the navigation bar, so I can view the opening times for movies. 📄 🚀 TQM-47						
The page is part of the overall site navigation 📄 🚀 TQM-48						
The page has details about the opening times of the cinema. 📄 🚀 TQM-48						
🟢 TQM-80 DONE 1 sub-task 3. As a user I want to be able to go on the cinema webpage, so that I can view the cinemas opening times. Create The frontend to show opening times 📄 🚀 TQM-84						
🟡 TQM-8 IN PROGRESS 3 sub-tasks 8. As a customer, I want to be able to pay for my ticket using a bank card, so that I can buy a ticket. Create a frontend form/card for payment 📄 🚀 TQM-73			A Backend server that has a stripe API to pull info for the credit card. 📄 🚀 TQM-72		Research creating a payment section using MERN stack 📄 🚀 TQM-74	
🟢 TQM-62 DONE 4 sub-tasks 4. As a user I want to be able to visit the website, so that I can click on the "Places to Go" section to view: Image of the venue 📄 🚀 TQM-65			Descriptions of some of the attractions i.e. restaurants and bars 📄 🚀 TQM-66			
Details of any Offers relating to the cinema						

TO DO			IN PROGRESS			DONE		
<div><div><div>TQM-2</div><div>DONE</div></div><div>4 sub-tasks 5. As a customer, I want to learn more about how the film classification system works, so that I have a better understanding of the system.</div></div>								
<div><div><div>TQM-17</div><div>IN PROGRESS</div></div><div>4 sub-tasks 2. As a user I should be able to click the listing gallery, so that I can see the current movie listings.</div></div>								
<div><div><div>The gallery is part of the overall site navigation</div><div><div><div><div></div></div></div><div><div>TQM-41</div><div>DONE</div></div></div></div></div>						<div><div><div>At least 4 different movie images</div><div><div><div><div></div></div></div><div><div>TQM-43</div><div>DONE</div></div></div></div></div>		
						<div><div><div>Each image appears on its own page</div><div><div><div><div></div></div></div><div><div>TQM-44</div><div>DONE</div></div></div></div></div>		
						<div><div><div>Each image has supporting text including Title, actors, director and showing times</div><div><div><div><div></div></div></div><div><div>TQM-45</div><div>DONE</div></div></div></div></div>		
<div><div><div>TQM-25</div><div>IN PROGRESS</div></div><div>5 sub-tasks 4. As a user I want to be able click, new releases section. So that I can view at least 4 new movies.</div></div>								
<div><div><div>The gallery is part of the overall site navigation</div><div><div><div><div></div></div></div><div><div>TQM-49</div><div>DONE</div></div></div></div></div>						<div><div><div>At least 4 different movie images</div><div><div><div><div></div></div></div><div><div>TQM-50</div><div>DONE</div></div></div></div></div>		
						<div><div><div>Each image appears on its own page</div><div><div><div><div></div></div></div><div><div>TQM-51</div><div>DONE</div></div></div></div></div>		
						<div><div><div>Each image appears on its own page</div><div><div><div><div></div></div></div><div><div>TQM-52</div><div>DONE</div></div></div></div></div>		
						<div><div><div>Each image appears on its own page</div><div><div><div><div></div></div></div><div><div>TQM-53</div><div>DONE</div></div></div></div></div>		
						<div><div><div>Each image has supporting text including Title, actors and director</div><div><div><div><div></div></div></div><div><div>TQM-55</div><div>DONE</div></div></div></div></div>		
<div><div><div>TQM-64</div><div>TO DO</div></div><div>6 sub-tasks 10. As a user, I want to be able to visit the site and click on the getting there section on the navbar, so that I can see the directions to the cinema.</div></div>								
<div><div><div>External image of the Cinema</div><div><div><div><div></div></div></div><div><div>TQM-93</div><div>DONE</div></div></div></div></div>			<div><div><div>Plan the layout of getting there page</div><div><div><div><div></div></div></div><div><div>TQM-98</div><div>DONE</div></div></div></div></div>					
<div><div><div>Cinema Address</div><div><div><div><div></div></div></div><div><div>TQM-94</div><div>DONE</div></div></div></div></div>								
<div><div><div>Directions from local transport i.e. bus, train, tram</div><div><div><div><div></div></div></div><div><div>TQM-95</div><div>DONE</div></div></div></div></div>								
<div><div><div>Parking direction</div><div><div><div><div></div></div></div><div><div>TQM-96</div><div>DONE</div></div></div></div></div>								
<div><div><div>Google/Bing map</div><div><div><div><div></div></div></div><div><div>TQM-97</div><div>DONE</div></div></div></div></div>								
<div><div><div>TQM-5</div><div>IN PROGRESS</div></div><div>3 sub-tasks 7. As a customer, I want to be able to book a ticket for a screening, so that I can watch my favourite movie.</div></div>								
<div><div><div>Part of overall site navigation</div><div><div><div><div></div></div></div><div><div>TQM-81</div><div>DONE</div></div></div></div></div>			<div><div><div>Homepage collects all required information</div><div><div><div><div></div></div></div><div><div>TQM-99</div><div>DONE</div></div></div></div></div>					

TQM-1 TO DO 2 sub-tasks 1. As a user I want to be able to view the homepage, so that I can see what the cinema is about.		
The page shall be the default for the entire site	 	TQM-28
An attractive homepage	 	TQM-30
Starting from the home page, site users may navigate to other areas of the site	 	TQM-32
The site should have a picture or graphic evocative of the movies or the cinema on it	 	TQM-33
Communicate to the viewer the purpose of the site	 	TQM-35
TQM-24 TO DO 2 sub-tasks 3. As a user I want to be able to click the navigation bar, so I can view the opening times for movies.		
The page is part of the overall site navigation	 	TQM-47
The page has details about the opening times of the cinema.	 	TQM-48
TQM-88 DONE 1 sub-task 3. As a user I want to be able to go on the cinema webpage, so that I can view the cinemas opening times.		
	Create The frontend to show opening times  	TQM-84
TQM-8 IN PROGRESS 3 sub-tasks 8. As a customer, I want to be able to pay for my ticket using a bank card, so that I can buy a ticket.		
Create a frontend form/card for payment  	A Backend server that has a stripe API to pull info for the credit card.  	Research creating a payment section using MERN stack  
TQM-73	TQM-72	TQM-74
TQM-62 DONE 4 sub-tasks 4. As a user I want to be able to visit the website, so that I can click on the "Places to Go" section to view:		
	Image of the venue  	TQM-65
	Descriptions of some of the attractions i.e. restaurants and bars  	TQM-66
	Details of any Offers relating to the cinema	



Technologies Used

- Version Control System: Git
- Source Code Management: GitHub
- Kanban Board: Jira
- Testing: Mocha, Chai





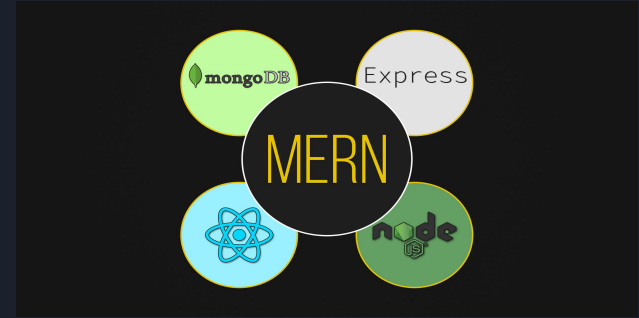
MERN

Mongo- Database Management System: MongoDB

Express- Framework for web functionality

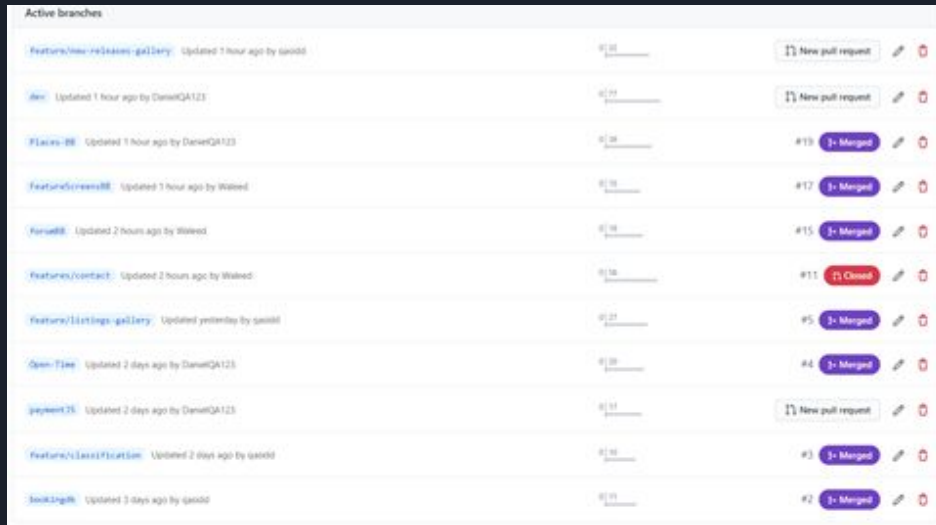
React- Front-End JS Library

Node- Node JS is an Open Source JS Back end runtime environment



GitHub

- GitHub used for Version Control, using the feature <concept> model. Features developed incrementally and added to each branch.

A screenshot of the GitHub 'Active branches' page. The page lists ten branches, each with its name, the last update time and by whom, a progress bar showing the commit count relative to the default branch, and a pull request status. The branches are: 'Features/new-releases-gallery' (updated 1 hour ago by spaid0, 0/18 commits, 'New pull request'), 'dev' (updated 1 hour ago by DanielQA123, 0/14 commits, 'New pull request'), 'Fixes-BE' (updated 1 hour ago by DanielQA123, 0/28 commits, '#13 Merged'), 'Features/screensRE' (updated 1 hour ago by Waleed, 0/18 commits, '#12 Merged'), 'FixesBE' (updated 2 hours ago by Waleed, 0/18 commits, '#15 Merged'), 'Features/contact' (updated 2 hours ago by Waleed, 0/18 commits, '#11 Closed'), 'Features/listings-gallery' (updated yesterday by spaid0, 0/21 commits, '#5 Merged'), 'Open-Time' (updated 2 days ago by DanielQA123, 0/28 commits, '#4 Merged'), 'paymentTS' (updated 2 days ago by DanielQA123, 0/17 commits, 'New pull request'), and 'Features/classification' (updated 2 days ago by spaid0, 0/10 commits, '#3 Merged'). The 'dev' branch is highlighted with a blue bar on the left.

Branch name	Last update	Commits	Status
Features/new-releases-gallery	Updated 1 hour ago by spaid0	0/18	New pull request
dev	Updated 1 hour ago by DanielQA123	0/14	New pull request
Fixes-BE	Updated 1 hour ago by DanielQA123	0/28	#13 Merged
Features/screensRE	Updated 1 hour ago by Waleed	0/18	#12 Merged
FixesBE	Updated 2 hours ago by Waleed	0/18	#15 Merged
Features/contact	Updated 2 hours ago by Waleed	0/18	#11 Closed
Features/listings-gallery	Updated yesterday by spaid0	0/21	#5 Merged
Open-Time	Updated 2 days ago by DanielQA123	0/28	#4 Merged
paymentTS	Updated 2 days ago by DanielQA123	0/17	New pull request
Features/classification	Updated 2 days ago by spaid0	0/10	#3 Merged
BackLogBE	Updated 3 days ago by spaid0	0/15	#2 Merged

Branches

-main

-dev

-feature<concept>

Testing - Frontend

```
PASS src/_tests_/About.test.js
> 1 snapshot written.
PASS src/_tests_/ContactUs.test.js
> 1 snapshot written.
PASS src/_tests_/PlacesToGo.test.js
> 1 snapshot written.
PASS src/_tests_/OpeningTimes.test.js
> 1 snapshot written.
PASS src/_tests_/DiscussionBoard.test.js
> 1 snapshot written.
PASS src/_tests_/Screens.test.js
> 1 snapshot written.
PASS src/_tests_/About.test.js
PASS src/_tests_/ContactUs.test.js
PASS src/_tests_/PlacesToGo.test.js
PASS src/_tests_/OpeningTimes.test.js
PASS src/_tests_/NewGalleries.test.js
PASS src/_tests_/Screens.test.js
PASS src/_tests_/DiscussionBoard.test.js
PASS src/_tests_/GettingThere.test.js
PASS src/_tests_/Classifications.test.js
PASS src/_tests_/CreateContact.test.js
PASS src/_tests_/App.test.js (5.271 s)
PASS src/_tests_/Bookings.test.js
PASS src/_tests_/ListingGalleries.test.js
PASS src/_tests_/Home.test.js

Test Suites: 14 passed, 14 total
Tests: 14 passed, 14 total
Snapshots: 14 passed, 14 total
Time: 7.314 s
Ran all test suites.
```

Snapshot Test

```
- <br />
- <br />
- <br />
- <br />
- <br />
+
+ <p
+   id="copyrightMessage"
+ >
+   <span>
+     @
+   </span>
+   All Rights Reserved
+ </p>
+ </div>
+ <div
+   className="col-6 text-right"
+ >
+   <a
+     className="d-block"
+     href="http://localhost:3000/"
+   >
+     Home
+   </a>
+   <a
+     className="d-block"
+     href="http://localhost:3000/about"
```

Snapshot of the react code

Testing - Backend

NYC for coverage

Mocha,Chai Tests

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	80.57	40.91	84	85.06	
backend	91.67	0	33.33	91.3	
expressindex.js	91.67	0	33.33	91.3	29,33
backend/config	93.75	50	100	100	
creds.js	100	100	100	100	
db.js	93.33	50	100	100	53
backend/router	77.04	44.74	86.96	82.05	
bookings.js	82.35	50	92.31	92.31	26,32
contact.js	38.46	0	0	38.46	10-37
film.js	81.82	50	94.12	89.19	18,44,51,93
forum.js	83.33	50	92.31	87.88	21,33,40,75
payments.js	62.5	0	0	62.5	8-34

Showing all test as passing

```
✓ Test film/getAll route (104ms)
✓ Test film/get/:id route
✓ Test film/getAll/nowShowing route
✓ Test film/getAll/upcoming route
✓ Test film/create route (71ms)
✓ Test film/delete/:id route
(node:30680) DeprecationWarning: Mongoose:
set to false are deprecated. See: https:
✓ Test film/update/:id route
✓ Test film/replace/:id route
✓ Test forum/getAll route
✓ Test forum/get/:id route
✓ Test forum/create route
✓ Test forum/delete/:id route
✓ Test forum/update/:id route
✓ Test forum/replace/:id route

14 passing (435ms)
```

```
it('Test forum/create route', (done) => {
  // request is to http://localhost:5019/product/create
  chai.request('http://localhost:5019/')
    .post('forum/create')
    .send({ "username": "JSkizzy",
      "movietitle" : "The WaterBoy",
      "comment" : "The film was great",
      "rating": 7,
      "created" : "2020-03-01" })
    .end((err, response) => {
      if(err) done(err);
      expect(err).to.be.null;
      expect(response).to.not.be.undefined;
      expect(response).to.have.status(201);
      expect(response).to.have.property('text', 'JSkizzy post has been added successfully!');
      done();
    });
});
```

Demonstration





Summary

- Project was an overall success as we managed to meet the MVP.
- Worked using Agile methodologies.
- Valuable knowledge and expertise gained along the way.



Questions

