QA
CINEMAS

INTRODUCTION

Who are we?

Emily Bradfield, Shahmeen Shaikh, Ibraheem Latif, Michael King, Madeha Rawshon, Jabril Yusuf.

What have we done?

We have created a full-stack web application for a QA cinema. The web app had to have frontend-backend functionality for booking tickers, contacting the team and a forum page. The site also needs to have information on the cinema and the movies being shown.

How have we achieved this?

We used an agile workflow to build a web application from the ground up. Each member of our team had an input in each part of the application to ensure we all had experience in back-end and front-end.

CONCEPT

- Planned our project on a Kanban board using Jira software
- Decided on a layout for our front-end
- Planned to use techniques and new technologies taught to us in prior learning, implementing them into our project
- Used the story points from our Jira board to prioritise

SPRINT PLAN

Projects / QA Final Project

Issues

Share | Export issues | Go to advanced search | LIST VIEW | DETAIL VIEW

Search issues | Project | Type: Story | Status | Assignee | More + | Reset | Save filter | BASIC | JQL

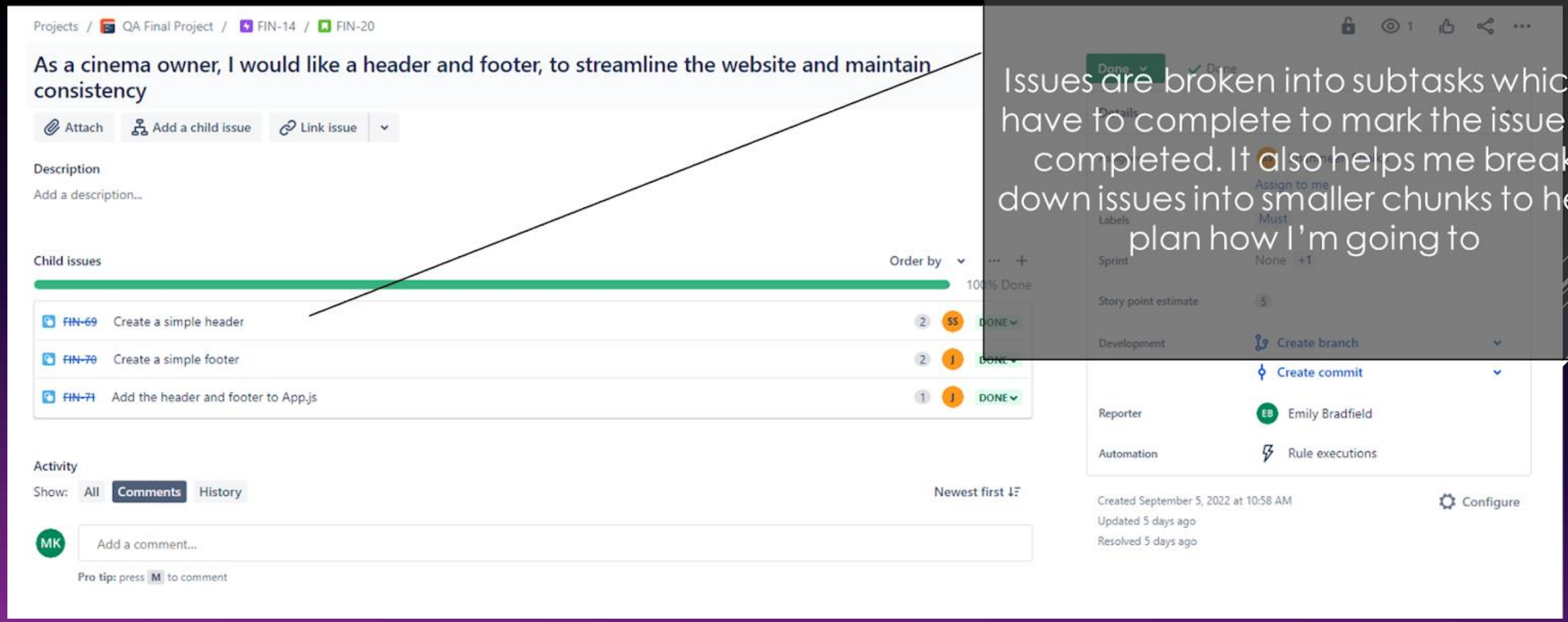
Type	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
	FIN-21	As a lover of cinemas and web development, I want to learn what a scrum is, so I understand how this website was built	Unassigned	Emily Bradfield	=	IN PROGRESS	Unresolved	Sep 5, 2022	Sep 14, 2022	
	FIN-20	As a cinema owner, I would like a header and footer, to streamline the website and maintain consistency	Shahmeen Shaikh	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 9, 2022	
	FIN-19	As a cinema owner, I want a custom logo, as it enhances my branding	Shahmeen Shaikh	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 8, 2022	
	FIN-18	As a customer, I want to find information about the website development team, so I can get information on who built the website	Unassigned	Emily Bradfield	=	IN PROGRESS	Unresolved	Sep 5, 2022	Sep 12, 2022	
	FIN-17	As the cinema owner, I want an email form to be used, so customer cannot see my email address	Emily Bradfield	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 9, 2022	
	FIN-16	As a customer, I want to be able to see contact details, so I can reach out to the cinema	Madeha Rawshon	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 8, 2022	
	FIN-15	As a customer, I want to be able to search the website, to make it easier to find what I want	Emily Bradfield	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 12, 2022	
	FIN-13	As a customer, I want to be able to use a forum, so I can interact with other movie fans	Unassigned	Emily Bradfield	=	IN PROGRESS	Unresolved	Sep 5, 2022	Sep 12, 2022	
	FIN-12	As a customer, I want to see directions to the cinema, so I know how to get there	Madeha Rawshon	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 13, 2022	
	FIN-11	As a customer, I want to see nearby venues, so I can plan my day accordingly	Unassigned	Emily Bradfield	=	IN PROGRESS	Unresolved	Sep 5, 2022	Sep 14, 2022	
	FIN-10	As a customer, I want to be able to pay for tickets online, so I know it's paid for in advance	Michael King	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 6, 2022	
	FIN-9	As a customer, I want to be able to book tickets, so I can guarentee I can see the movie	Unassigned	Emily Bradfield	=	IN PROGRESS	Unresolved	Sep 5, 2022	Sep 12, 2022	
	FIN-8	As a customer, I want to be able to find information about screens, so I know what to expect	Unassigned	Emily Bradfield	=	IN PROGRESS	Unresolved	Sep 5, 2022	Sep 12, 2022	
	FIN-7	As a customer, I want to be able to view opening times, so I know when the cinema is open	Madeha Rawshon	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 12, 2022	
	FIN-6	As a customer, I want to be able to view new releases, so I know what movies are coming out	Emily Bradfield	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 6, 2022	
	FIN-5	As a customer, I want to be able to view listings, so I know what movies are on	Emily Bradfield	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 5, 2022	
	FIN-4	As a customer, I want there to be a navbar, so I can access different pages	Shahmeen Shaikh	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 6, 2022	
	FIN-3	As a customer, I want to arrive on the home page, so I can view information about the cinema	Shahmeen Shaikh	Emily Bradfield	=	DONE	Done	Sep 5, 2022	Sep 6, 2022	

Give feedback

1-18 of 18

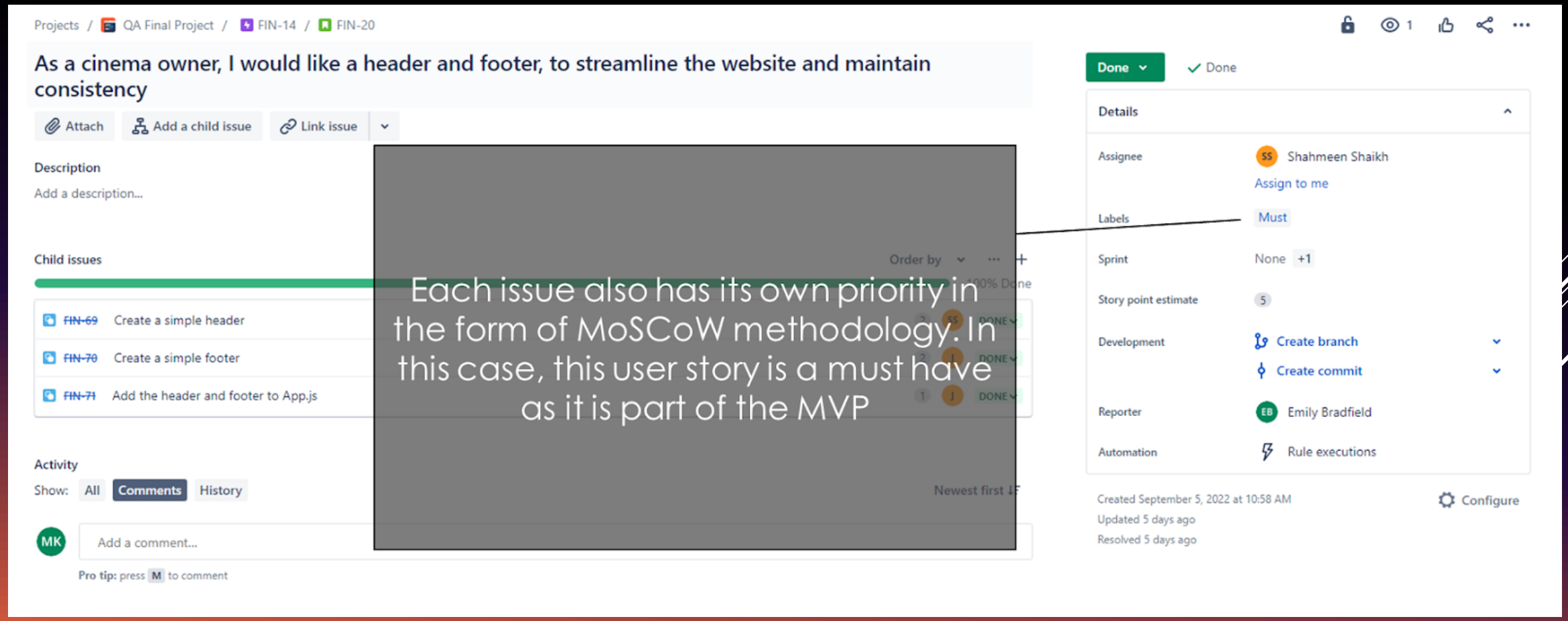
1

SPRINT PLAN



Issues are broken into subtasks which I have to complete to mark the issue as completed. It also helps me break down issues into smaller chunks to help plan how I'm going to

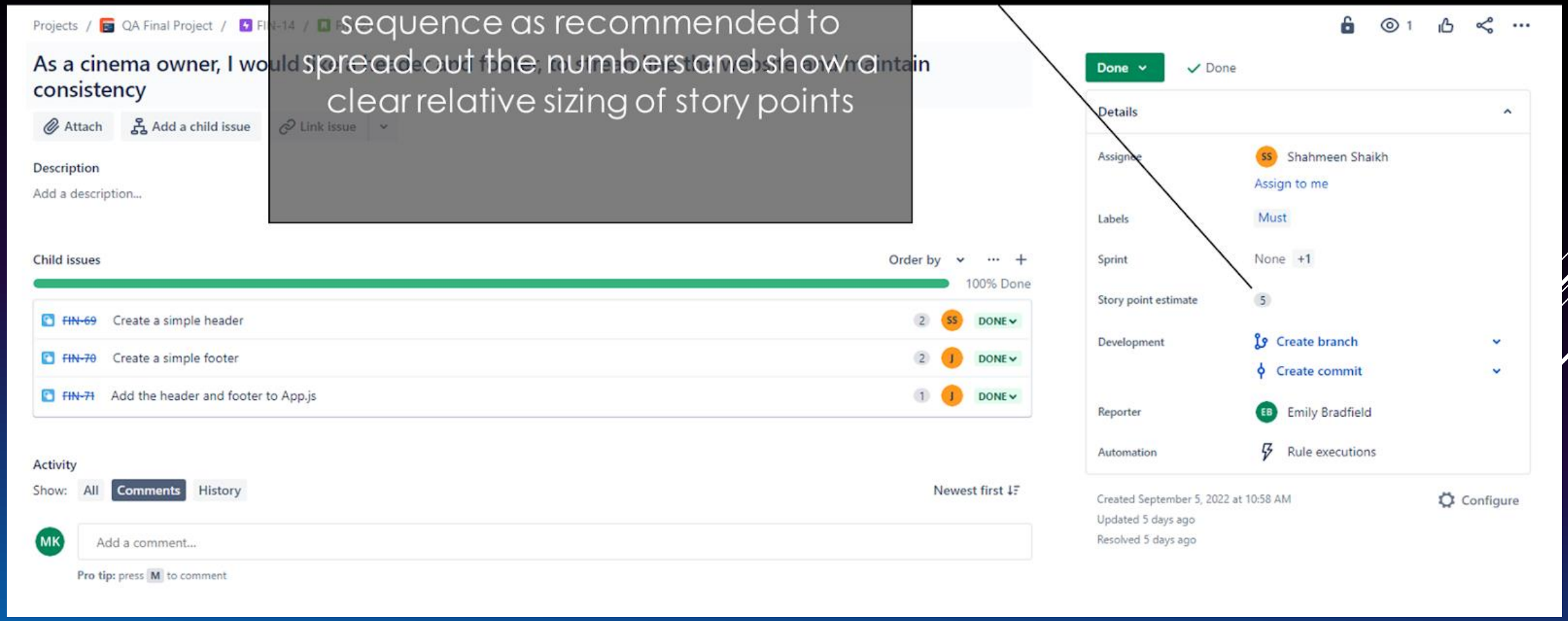
SPRINT PLAN



Each issue also has its own priority in the form of MoSCoW methodology. In this case, this user story is a must have as it is part of the MVP

SPRINT PLAN

Story points are used for time estimations – I used the Fibonacci sequence as recommended to spread out the numbers and show a clear relative sizing of story points



SPRINT PLAN

We assigned tasks to developers to make sure each individual was working on separate tasks, and we knew who to go to if we had a query about a certain task

Projects / QA Final Project /

As a cinema owner I would like a header and footer to streamline the website and maintain consistency

Attach | Add a child issue | Link issue

Description

Add a description...

Child issues — Order by — 100% Done

FIN-69	Create a simple header	2	SS	DONE
FIN-70	Create a simple footer	2	J	DONE
FIN-71	Add the header and footer to App.js	1	J	DONE

Activity

Show: All | Comments | History — Newest first

MK — Add a comment...

Pro tip: press M to comment

Done — Done

Details

Assignee	SS Shahmeen Shaikh Assign to me
Labels	Must
Sprint	None +1
Story point estimate	5
Development	Create branch Create commit
Reporter	EB Emily Bradfield
Automation	Rule executions

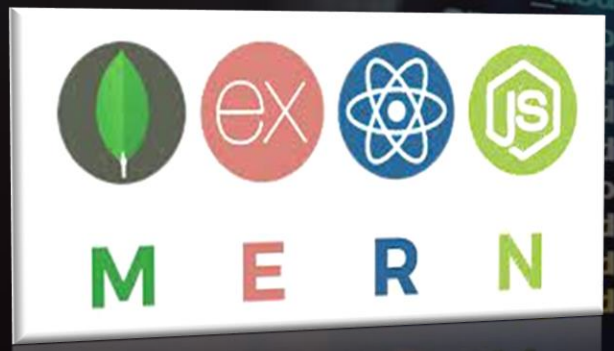
Created September 5, 2022 at 10:58 AM

Updated 5 days ago

Resolved 5 days ago

Configure

TECH STACK



MongoDB - Document-oriented non-relational database
Express - Server-side web framework that implements middleware into a project alongside Node
React - A popular client-side JavaScript framework used to create dynamic user interfaces
Node.js - Provides a backend JavaScript runtime environment

HTML, CSS and JavaScript are the three main languages used in frontend web development

Chai is an assertion library that works alongside Mocha, a Node.js testing framework

BACKEND

Final Deliverable:
Our final product must be able to allow users on the front-end to navigate through our web application to see all our information pages. They should also be able to use the bookings, contact and forums page to send data through the UI, into our API and finally into our three collections in our online MongoDB database.

Collaboration:
From the first day of development, I worked closely with my colleagues to ensure our separate routers and models had the same foundation. We helped each other with any bugs we had so we could finish our work quicker.

Git:
Our development team actively used git as version control to keep our work updated and tied. We used a feature-branch model for organisation and security, so any extra features we had are separate from the main, saved work-load and can be merged manually whilst checking for any conflicts in the code.

BACKEND

Challenges:

One of my main challenges I faced was the implementation of my ticket limitation for each screening. I made the decision to work out total tickets for each screening in an array instead of a database, as it wouldn't involve any further back-end involvement. In doing so, I quickly found that the logic behind doing this would include multiple nested if-statements and loops, in which I easily lost track of where I was, and spent a long time debugging to find out where I went wrong.

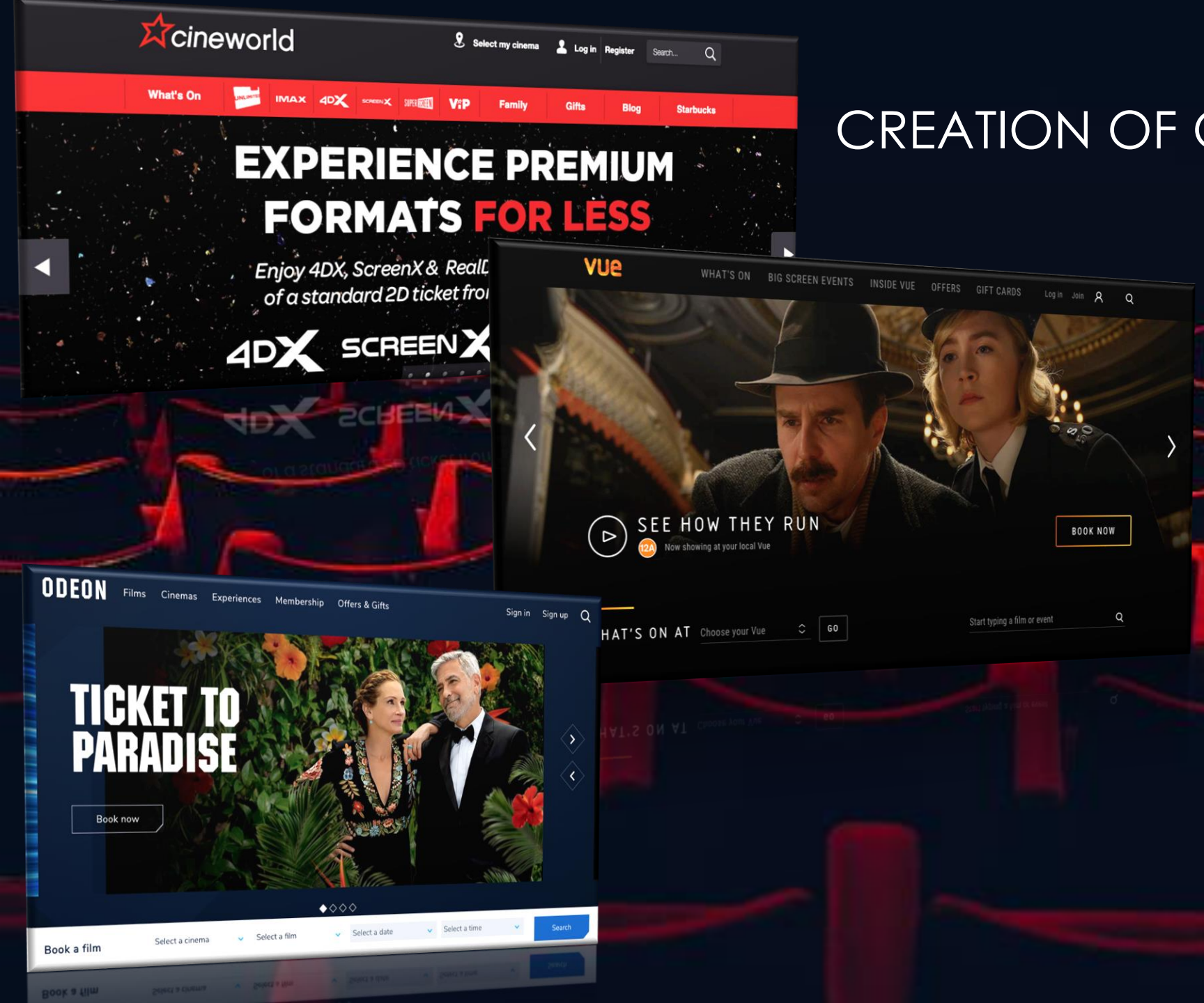
Another challenge I faced was implementing the reply functionality for each forum message. I had to try to reverse-engineer an HTML page element by looking through hundreds of lines of properties to find a way to reference other elements relative to one I was looking at.

What am I proud of?

I'm proud of my dedication and commitment to every challenge I faced. I'd be able to use problem solving to debug my work, then understand exactly why it went wrong. Having this understanding of how each component worked helped me work more efficiently, and with less chance of creating bugs further down the line.

CREATION OF QA CINEMAS BRAND

Initial research phase

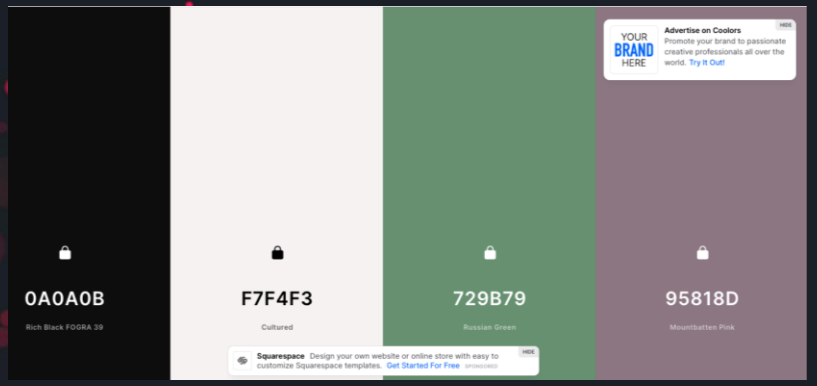


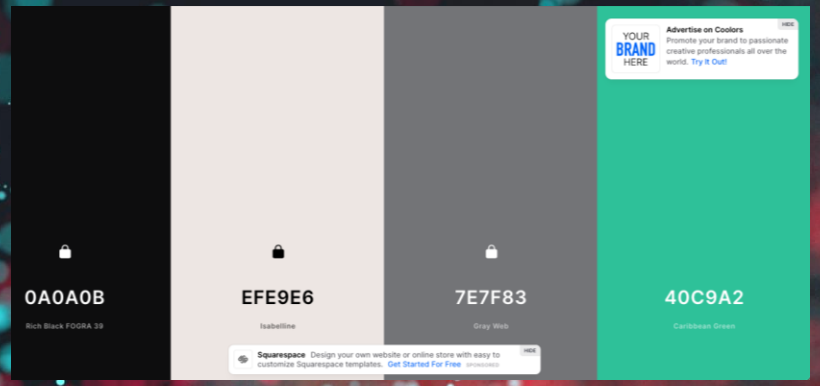
Cinema branding

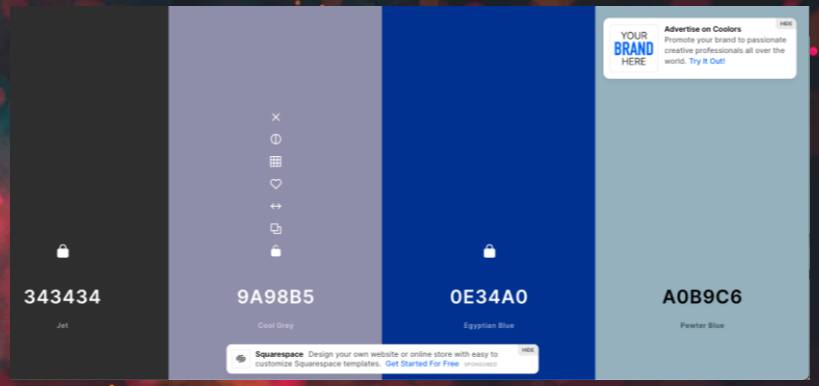
- Generally dark colour theme
- Bold font

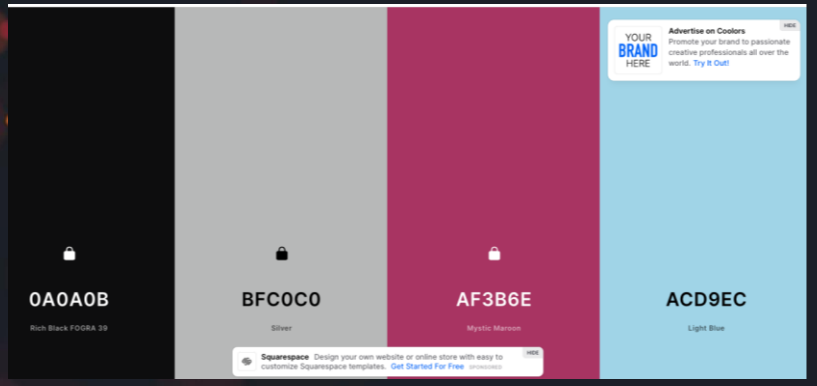
Cinema Websites

- Minimal design
- Easy navigation









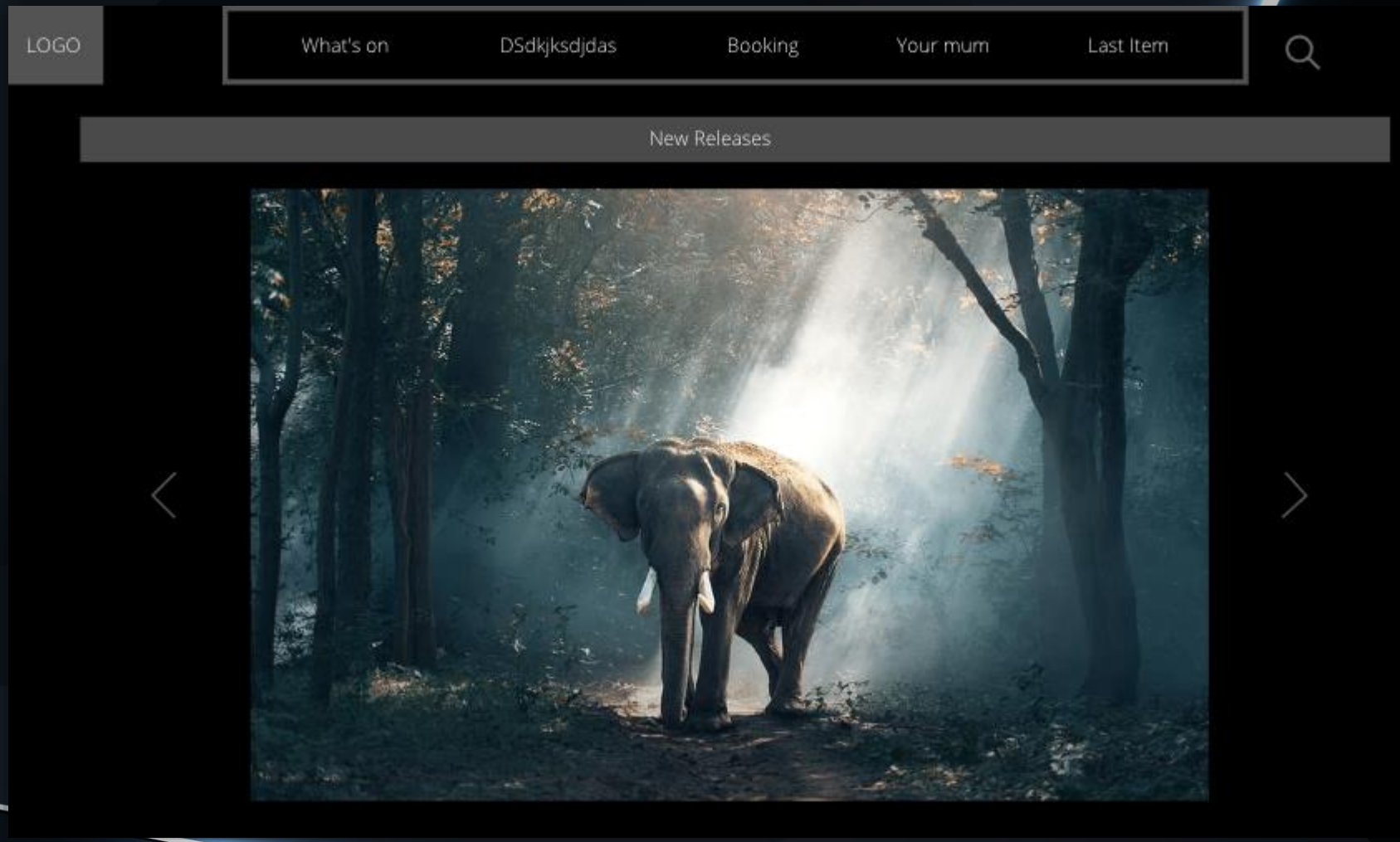
PRODUCT OWNER VISION

Colour Scheme

PRODUCT OWNER VISION

- Consistent
- Cohesive

- Minimalistic / clean



PRODUCT OWNER VISION

Figuring out main colours and font, building the rest of design based on that.

- Consistent
- Cohesive

- Minimalistic / clean

REFLECTION

Firstly, I believe every member in this team has played their part to get the best possible outcome for this project.in addition we came across issues which allowed us to enhance our problem solving capability, learning to communicate more often as we was having issues with GitHub as members were not pushing work more frequently and loss of time as we were resolving merge conflicts. We also had discussions about using Jira ticket function effectively as members were doing the same tasks. After a brief period of mishaps we got more organized, the structure of the team start to show as the front end team started to mould their work to the project owners image. The backend team had challenging moments specially with testing all codes before deployment. Unfortunately we could not complete the booking seat feature. Overall we are extremely happy with the outcome of our project.