MOVIE APPLICATION

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INTRODUCTION

PROBLEM STATEMENT: Implementation of Movie Application with the help of react framework, DHTML.

Abstract

There are currently about 40 providers of over–the–top media services (OTT) in India, which distribute streaming media over the Internet. In fiscal year 2018, the OTT market in India was worth ₹2,150 crore (₹21.5 billion, US$303 million as of 2018), and its value grew to ₹35 billion in 2019.

The first dependent Indian OTT platform was BIGFlix, launched by Reliance Entertainment in 2008. In 2010, Digivive launched India's first OTT mobile app called nexGTv, which provides access to both live TV and on–demand content. nexGTV is the first app to live–stream Indian Premier League matches on smart phones and did so during 2013 and 2014.

OTT gained significant momentum in India when both Ditto Tv (Zee) and Sony Liv were launched in the Indian market around 2013. DittoTV was an aggregator platform containing shows across all media channels including Star, Sony, Viacom, Zee, etc.

According to KPMG Media and Entertainment Report 2018, the Indian OTT market is expected to grow 45 percent to reach ₹138 billion by the end of fiscal 2023. According to a report by Ernst & Young, the number of OTT users in the country will reach 500 million by 2020, making India the second–biggest market after the US.

PROJECT OBJECTIVE

Rise of OTT in India

Rise of Hotstar

Hotstar, (now Disney+Hotstar), is the most subscribed–to OTT platform in India, owned by Star as of July 2020, with around 300 million active users and over 350 million downloads.

According to Hotstar's India Watch Report 2018, 96% of watch time on Hotstar comes from videos longer than 20 minutes, while one–third of Hotstar subscribers watch television shows.

In 2019, Hotstar began investing ₹120 crore in generating original content such as "Hotstar Specials." 80% of the viewership on Hotstar comes from drama, movies and sports programs.

Netflix in India

American streaming service Netflix entered India in January 2016. In April 2017, it was registered as a limited liability partnership (LLP) and started commissioning content. It earned a net profit of ₹2020,000 (₹2.02 million) for fiscal year 2017.

In fiscal year 2018, Netflix earned revenues of ₹580 million According to Morgan Stanley Research,

Netflix had the highest average watch time of more than 120 minutes but viewer counts of around 20 million in July 2018.As of 2018, Netflix has six million subscribers, of which 5–6% are paid members.

India was not affected by Netflix's July 2018 increase in subscription rates for the US and Latin America. Netflix has stated its intent to invest ₹600 Crore in the production of Indian original programming. In late 2018, Netflix bought 150,000 square feet (14,000 m2) of office space in

Bandra–Kurla Complex (BKC) in Mumbai as their head office. As of December 2018, Netflix has more than 40 employees in India.

Netflix faces tough competition with other OTT platforms in India such as and Disney+ Hotstar, each of which charge lower subscription rates than Netflix.
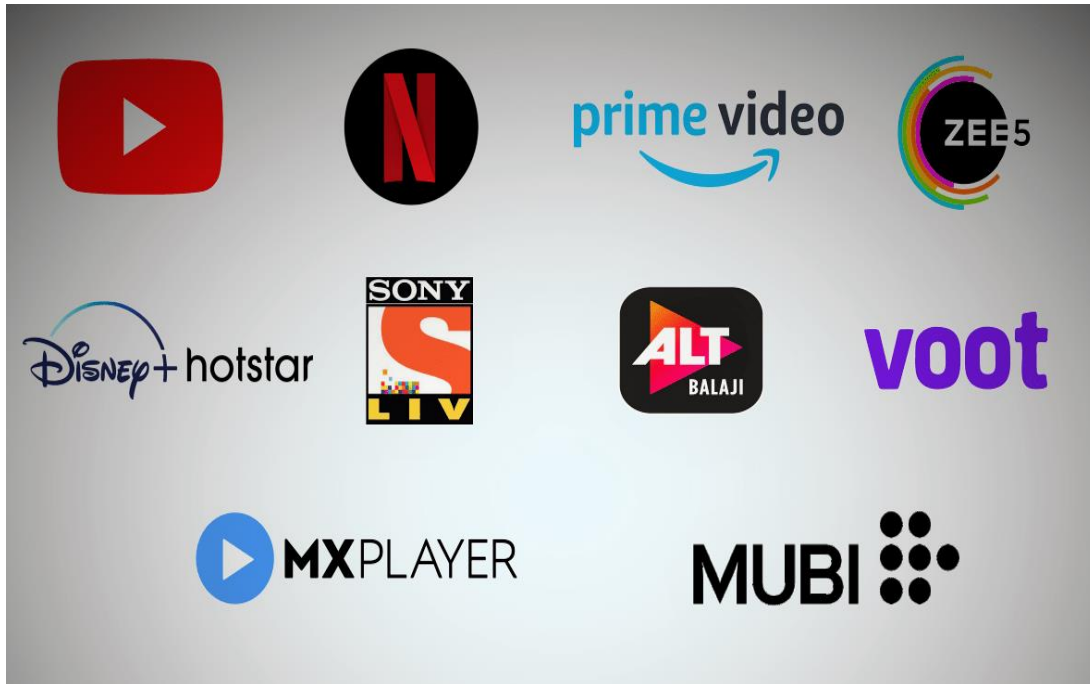

Figure: 1 Most Common OTT platforms in India.

PROJECT DESCRIPTION

The project is a Front-end application

Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly. The challenge associated with front end development is that the tools and techniques used to create the front end of a website change constantly and so the developer needs to constantly be aware of how the field is developing.

The objective of designing a site is to ensure that when the users open up the site they see the information in a format that is easy to read and relevant. This is further complicated by the fact that users now use a large variety of devices with varying screen sizes and resolutions thus forcing the designer to take into consideration these aspects when designing the site.

They need to ensure that their site comes up correctly in different browsers (cross-browser), different operating systems (cross-platform) and different devices (cross-device), which requires careful planning on the side of the developer.

The website's **front end** is everything you see and can interact with using a browser. So, creating this visual part is called front-end development. You could even say that designers creating user interfaces and planning experiences are also front-end developers, as they are working in collaboration on the same part of the project.

To create the front end, engineers use the combination of HTML (for basic page structure and content), CSS (for visual editing), and JavaScript (for making websites interactive). The same set of tools is used to create mobile apps that look and feel like a native one but are created with the use of front-end technologies. There's more about that in the linked article.
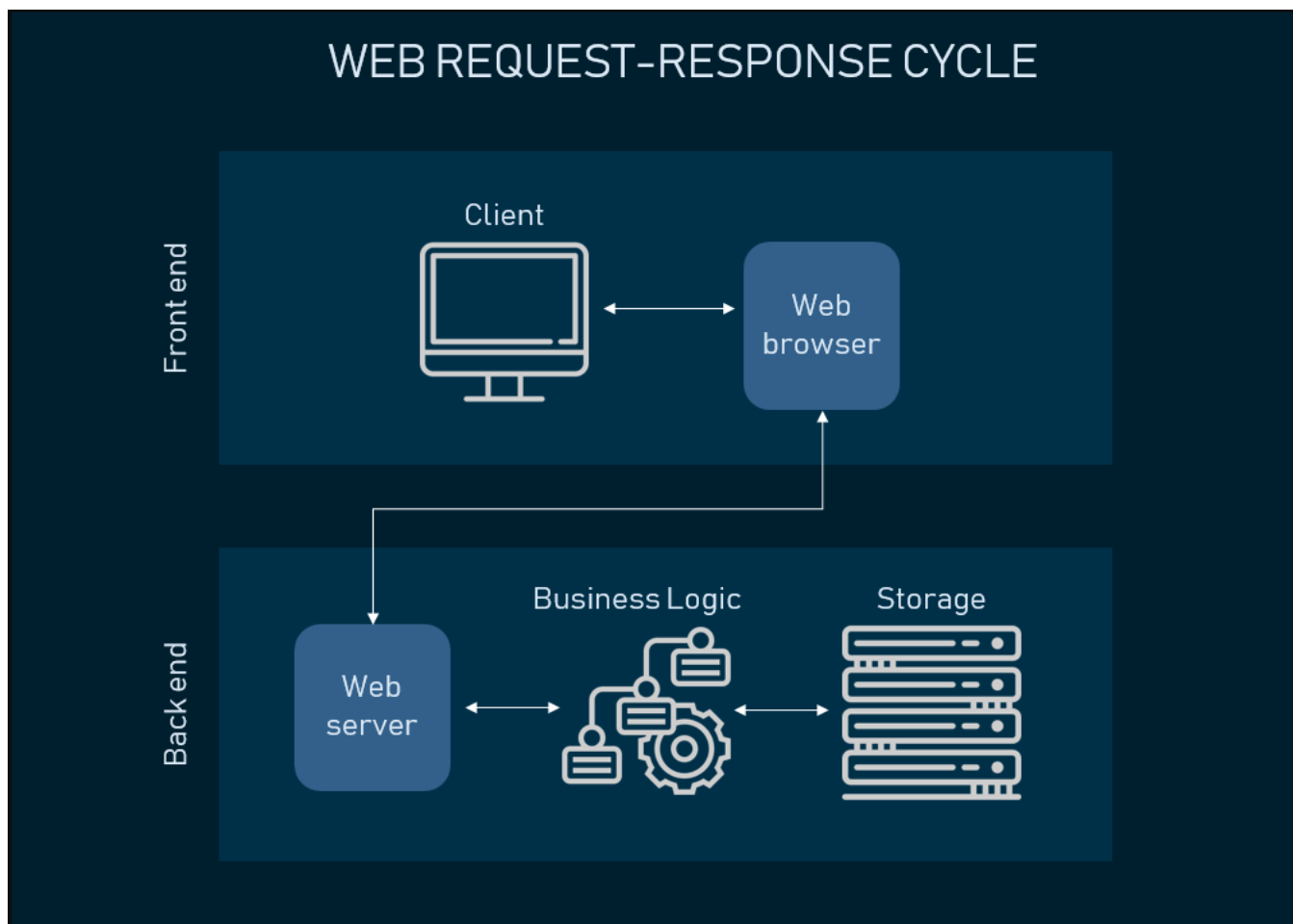
Figure 2: Front End and Backend

There are several tools and platforms, such as WordPress, Joomla, and Drupal, available that can be used to develop the front end of a website, and understanding which tools are best fit for specific tasks marks the difference between developing a hacked site and a well-designed, scalable site.

Front-end web development is the practice of converting data to a graphical interface, through the use of HTML, CSS, and JavaScript, so that users can view and interact with that data.

SOLUTION APPROACH

The main motive of this project is to make use of react framework to make this web application using styled components

The movie application will be divided into 3 pages as:

    Landing Page
    Home Page
    Login Page

With Landing Page almost ready more work will be done on other pages of the project.

Front-end web development is the practice of converting data to a graphical interface, through the use of HTML, CSS, and JavaScript, so that users can view and interact with that data.

Here we have used languages like HTML,5, CSS3, JAVASCRIPT, REACT, REACT ROUTER DOM:

HTML5 (or Hypertext Markup Language) is a computer language for building websites. It's usually applied to structure a web document.

Figure 3

CSS3 (or Cascading Style Sheets) is a style sheet language. It's used to specify the representation of HTML elements on a webpage. CSS scope includes the design, layout, and variations in display for diverse devices and screen sizes.

Figure 4

DOM (or Document Object Model) is a programming interface for HTML and XML documents. It contains the page info so that programs can change the document structure, style, and content.

JavaScript is a scripting language. In the front-end, it's used to make web pages dynamic. Additionally, it provides full-stack technologies with libraries and frameworks for both client-side and server-side scripting.

Figure 5

React.js is an open-source JavaScript library that is used for building user interfaces specifically for single-page applications. It's used for handling the view layer for web and mobile apps. React also allows us to create reusable UI components. React was first created by Jordan Walke, a software engineer working for Facebook. React first deployed on Facebook's newsfeed in 2011 and on Instagram.com in 2012.
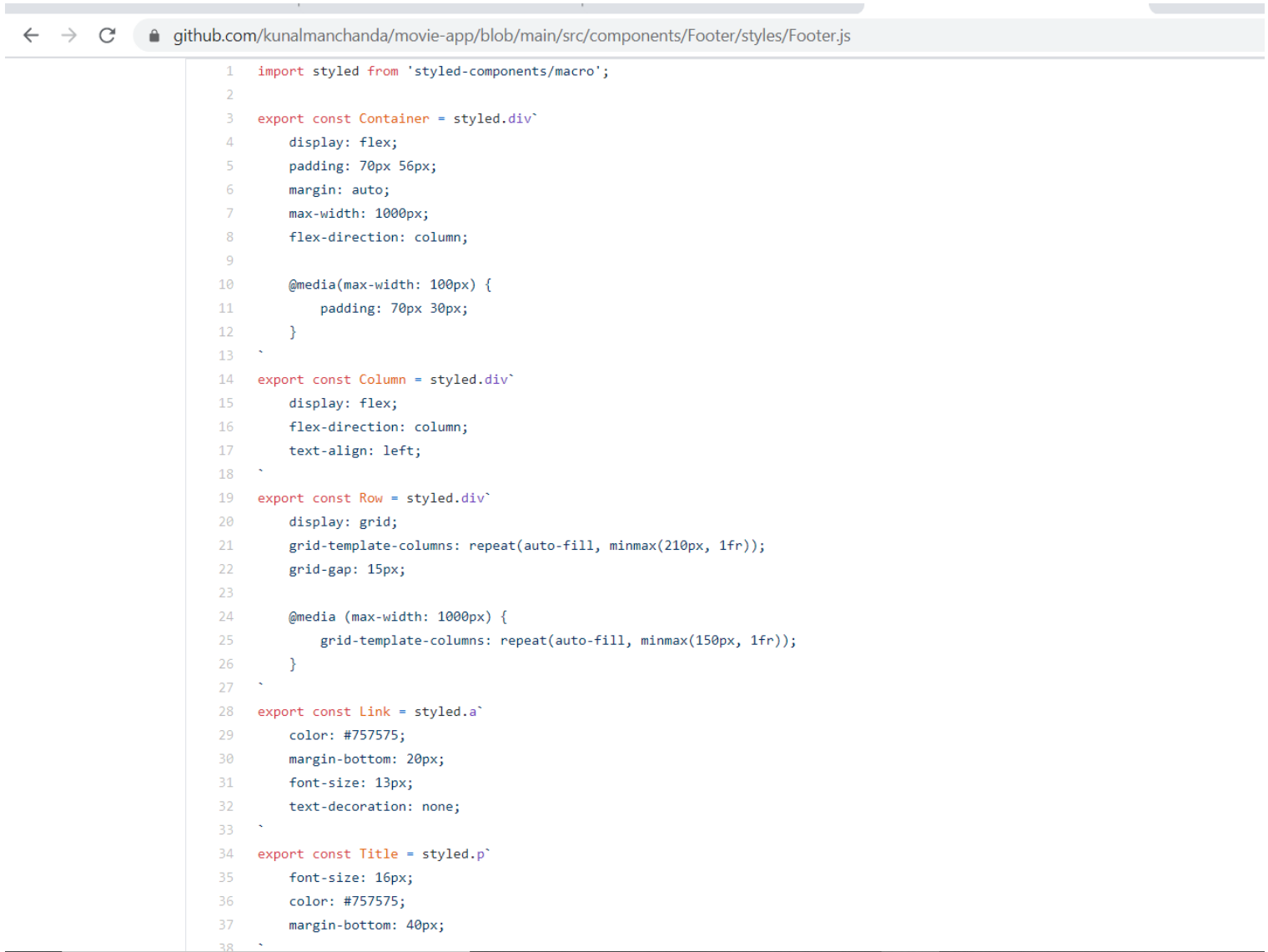
React allows developers to create large web applications that can change data, without reloading the page. The main purpose of React is to be fast, scalable, and simple. It works only on user interfaces in the application. This corresponds to the view in the MVC template. It can be used with a combination of other JavaScript libraries or frameworks, such as Angular JS in MVC.

React JS is also called simply to React or React.js.

Figure 6

IMPLEMENTATION

github.com/kunalmanchanda/movie-app/blob/main/src/components/Footer/styles/Footer.js

```javascript
1   import styled from 'styled-components/macro';
2
3   export const Container = styled.div`
4       display: flex;
5       padding: 70px 56px;
6       margin: auto;
7       max-width: 1000px;
8       flex-direction: column;
9
10      @media(max-width: 100px) {
11          padding: 70px 30px;
12      }
13  `
14  export const Column = styled.div`
15      display: flex;
16      flex-direction: column;
17      text-align: left;
18  `
19  export const Row = styled.div`
20      display: grid;
21      grid-template-columns: repeat(auto-fill, minmax(210px, 1fr));
22      grid-gap: 15px;
23
24      @media (max-width: 1000px) {
25          grid-template-columns: repeat(auto-fill, minmax(150px, 1fr));
26      }
27  `
28  export const Link = styled.a`
29      color: #757575;
30      margin-bottom: 20px;
31      font-size: 13px;
32      text-decoration: none;
33  `
34  export const Title = styled.p`
35      font-size: 16px;
36      color: #757575;
37      margin-bottom: 40px;
38  `
```

Figure 7: Footer Styles

```jsx
1    import React from 'react'
2    import { Container, Row, Column, Title, Text, Link, Break } from './styles/Footer'
3
4    const Footer = ({ children, ...restProps}) => {
5        return (
6            <Container {...restProps}>
7                {children}
8            </Container>
9        )
10   }
11
12   Footer.Row = function FooterRow({ children, ...restProps }) {
13       return <Row {...restProps}>{children}</Row>
14   }
15
16   Footer.Column = function FooterColumn({ children, ...restProps }) {
17       return <Column {...restProps}>{children}</Column>
18   }
19
20   Footer.Link = function FooterLink({ children, ...restProps }) {
21       return <Link {...restProps}>{children}</Link>
22   }
23
24   Footer.Title = function FooterTitle({ children, ...restProps }) {
25       return <Title {...restProps}>{children}</Title>
26   }
27
28   Footer.Text = function FooterText({ children, ...restProps }) {
29       return <Text {...restProps}>{children}</Text>
30   }
31
32   Footer.Break = function FooterBreak({ children, ...restProps }) {
33       return <Break {...restProps}>{children}</Break>
34   }
35
36   export default Footer
```

Figure 8: Footer

```json
1    [
2      {
3        "id": 1,
4        "header": "What is Netflix?",
5        "body": "Netflix is a streaming service that offers a wide variety of award-winning TV programmes, films, anime, documentaries and more – on thousands
6      },
7      {
8        "id": 2,
9        "header": "How much does Netflix cost?",
10       "body": "Watch Netflix on your smartphone, tablet, smart TV, laptop or streaming device, all for one low fixed monthly fee. Plans start from £5.99 a mo
11     },
12     {
13       "id": 3,
14       "header": "Where can I watch?",
15       "body": "Watch anywhere, anytime, on an unlimited number of devices. Sign in with your Netflix account to watch instantly on the web at netflix.com fro
16     },
17     {
18       "id": 4,
19       "header": "How do I cancel?",
20       "body": "Netflix is flexible. There are no annoying contracts and no commitments. You can easily cancel your account online in two clicks. There are no
21     },
22     {
23       "id": 5,
24       "header": "What can I watch on Netflix?",
25       "body": "Netflix has an extensive library of feature films, documentaries, TV programmes, anime, award-winning Netflix originals, and more. Watch as mu
26     }
27   ]
```

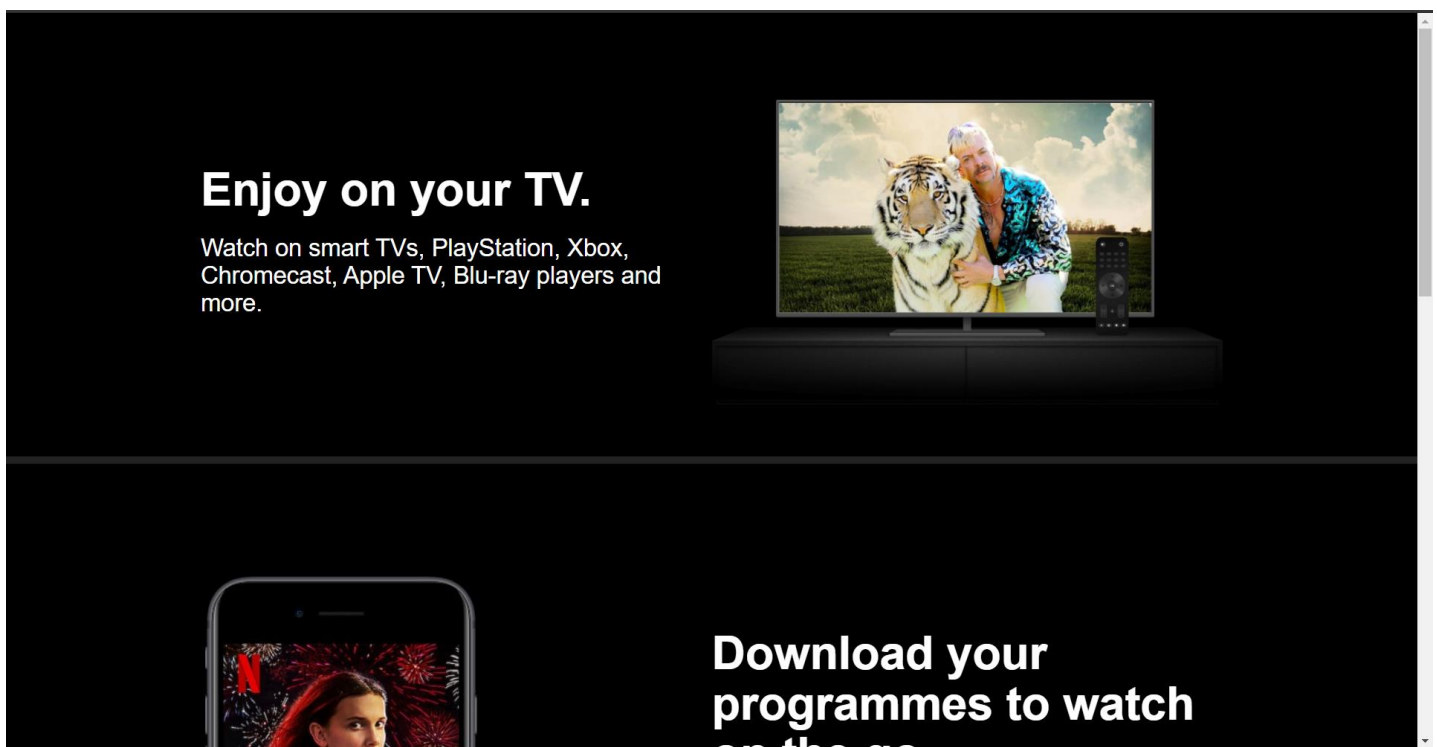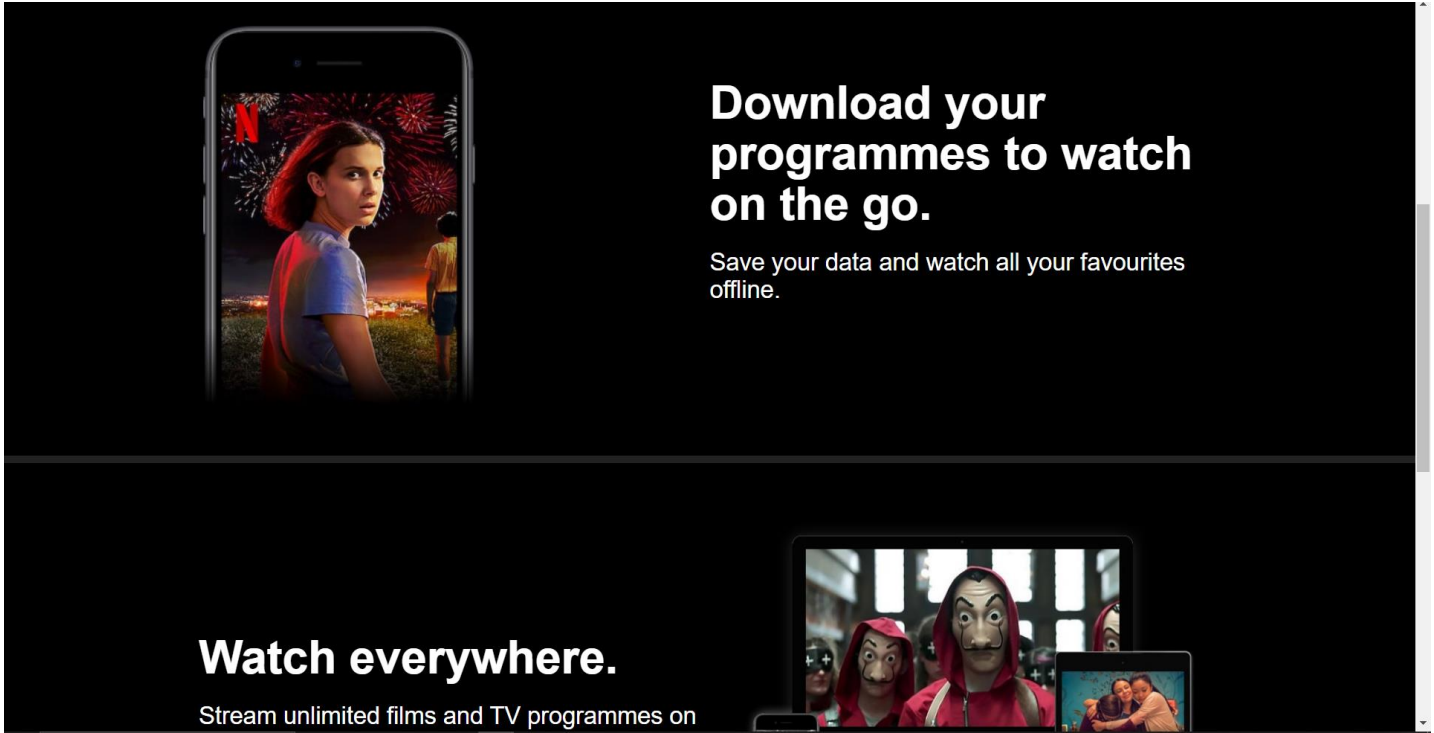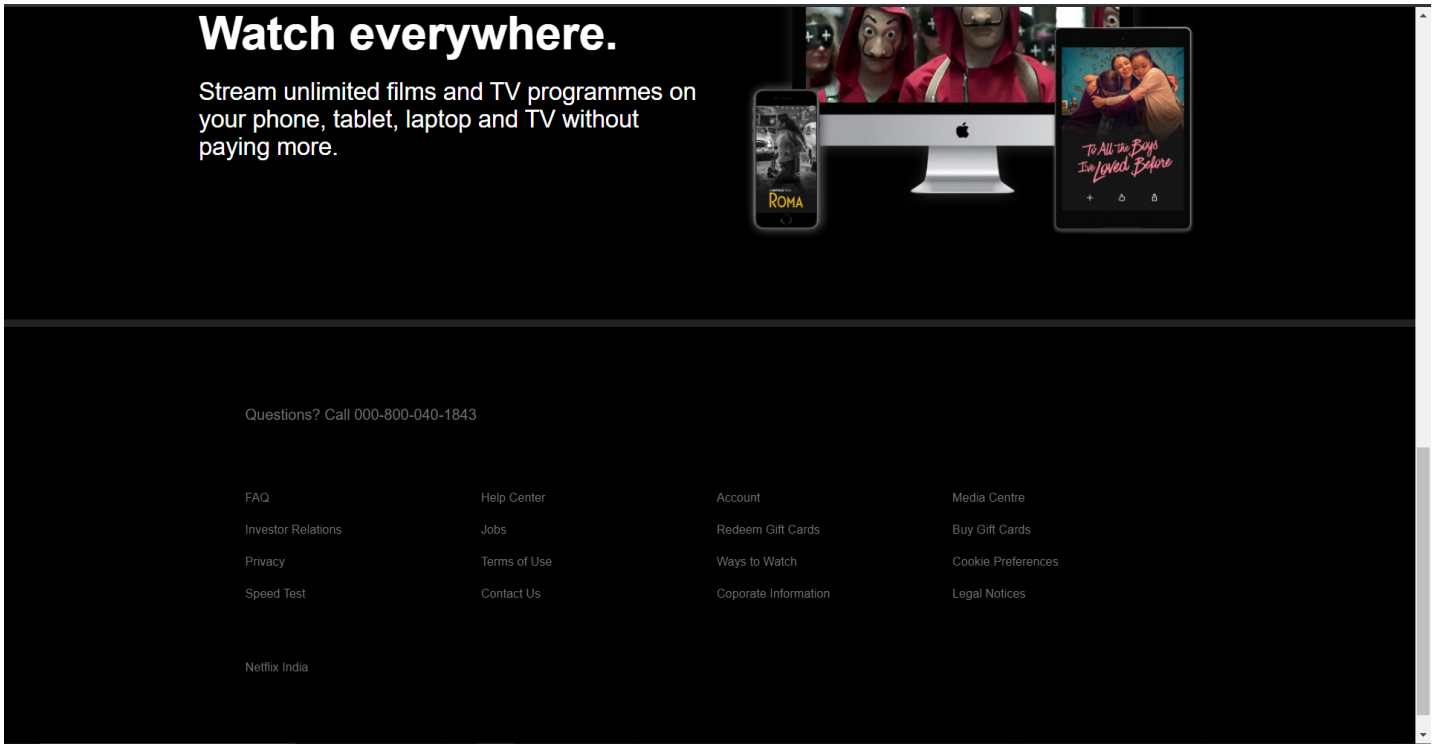Figure 9: Fixtures Faqs.json

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RESULT WEBPAGE

Figure 10: Landing Page_1

Figure 11: Landing Page_2

Figure 11: Landing Page_3