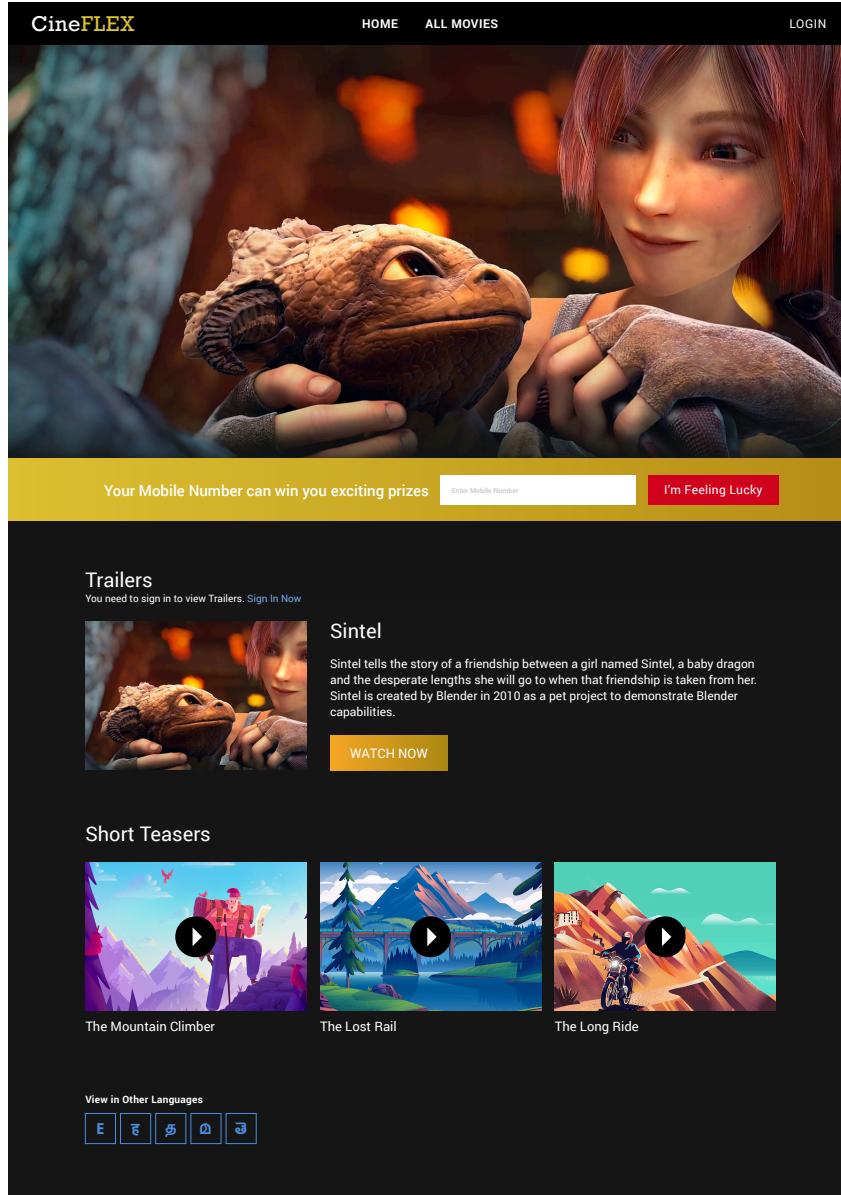


MISSION KEPLER: React JS Training

ASSIGNMENT #4: CINEFLIX



Objective

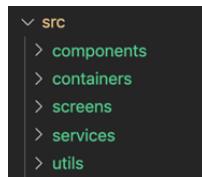
To Learn about React Advanced Concepts and Unit Testing

1. Implement this application with React functional components.
2. Use Class Components, if functional components do not support a certain functionality.
3. It's a Multi-Page Applications.
4. Use Containers as directed below. You can create any number of appropriate components.
5. Optimize re-renders. Use Code Splitting.
6. Use useReducer to maintain states. Simple states can be maintained with useState itself.
7. Use **JEST & React Test Library** for Unit Testing. Prefer a Test Driven Approach.
8. Write Snapshot Testing for components.

Prototype Link (View the working prototype here)

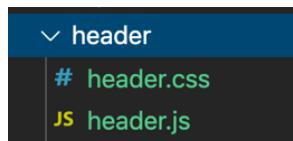
<https://www.sketch.com/s/87a8890f-ffd0-4801-9f56-ef04e65c6bf7/a/VRKDyl/play>

Folder Structure



Group JS and CSS together as a folder inside Components/Screen/Container.

Example



Preferred Services File & Methods (Can be Class Files)

1. LotteryService.js
 - a. `checkForPrize(mobileNo)`
2. MovieService.js
 - a. `getMovies(pageNo)`
 - b. `getShortTeasers()`

API URLs

1. Lottery Service

<https://nijinserver.herokuapp.com/dummy/cineflex/lottery?mobile=<mobileNo>>

Example

<https://nijinserver.herokuapp.com/dummy/cineflex/lottery?mobile=9822345334>
Note: Even Phone Numbers return some discount.

<https://nijinserver.herokuapp.com/dummy/cineflex/lottery?mobile=9821323421>
Note: Odd Phone Numbers timeout

2. To get Short Teasers

<https://nijinserver.herokuapp.com/dummy/cineflex/teasers>

2. To get Movies

<https://nijinserver.herokuapp.com/dummy/cineflex/movies?page=<pageNo>>

Example

<https://nijinserver.herokuapp.com/dummy/cineflex/movies?page=2>

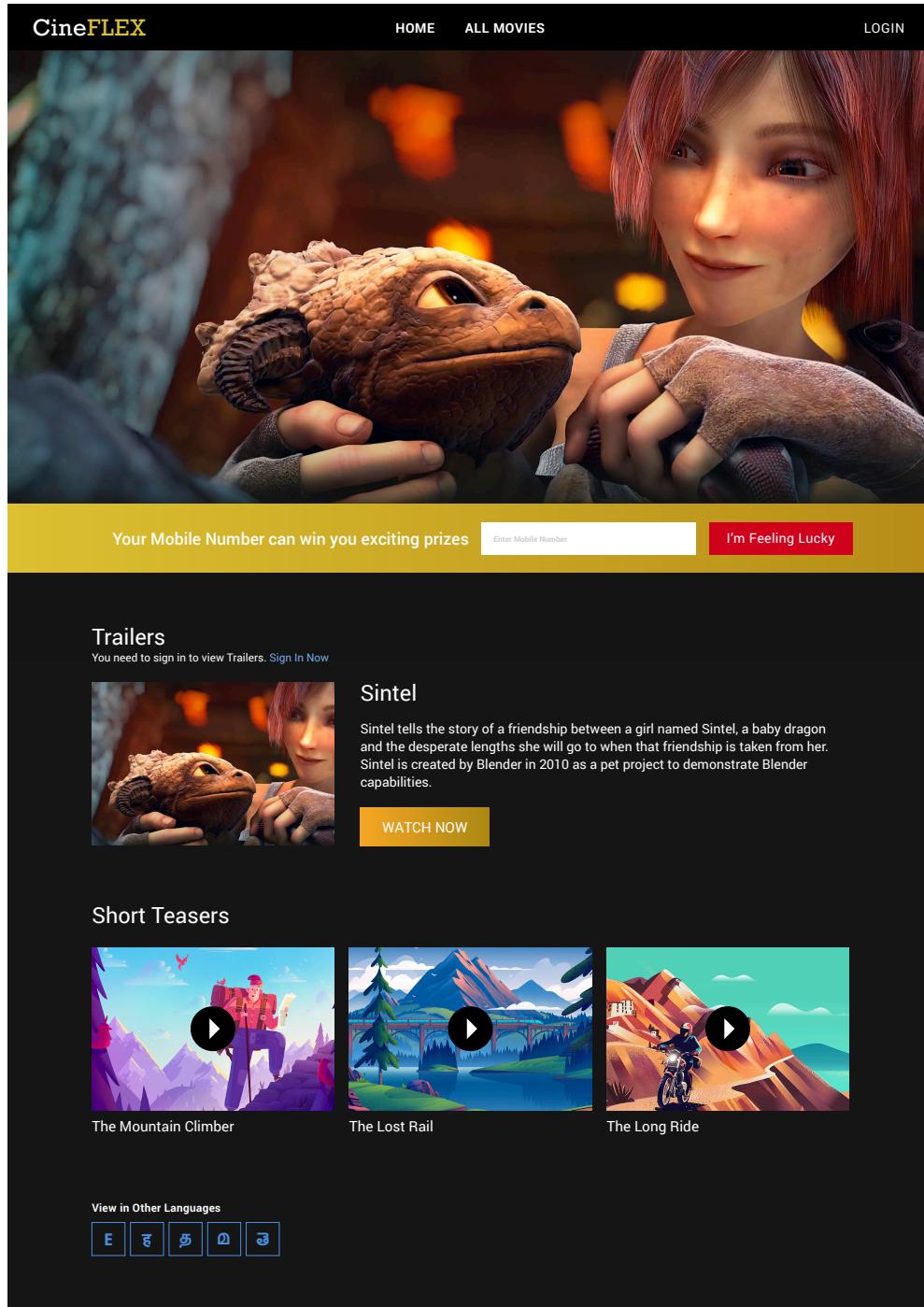
Navigation

Nav Bar is present on the top of all pages. Active Menu to be shown in blue color.

Route	Access	Route
HOME	Public	/
ALL MOVIES	Public	/allMovies
LOGIN	Public	/login
NOW SHOWING	Logged In User	/showTime

This application has 4 pages and their detailed containers & components are mentioned below.

Page 1. Home



1.1 Cover Picture Section

Display a cover picture for the website.

Note: Static Image (Asset Provided)

1.2 Lottery Section

Functionality

- User would enter a 10-digit mobile number and click “I’m Feeling Lucky” Button.
- Initiate a API call to check whether the number has won any prize.
If the API returns with a data, the screen would change as shown in the Lottery section.

Hurray! You won a free ticket to Blind Date on Wednesday

- If the API throws an error, the screen would change as shown in Lottery Section –
Note: On Error (API will take a lot of time and will not return anything in this case)

Sorry :(Better Luck Next Time

- Use separate components to show error. (React Error Boundaries)

Service Calls

`checkForPrize(mobileNo)`

Test Data: All Even Number phones will win a 10%, odd numbers will throw an error

1.3 Trailers Section

Note: This is a Static Content. Use the same cover image as the Thumbnail.

Functionality

- If the user is logged in, then on click of Watch Now, redirect him to “Now Watching” page.
- If the user is not logged in, redirect him to “Login” Page.

1.4 Short Teasers Section

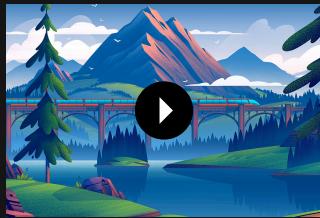
Functionality

- Display the list of short teasers fetched from the service.
- User should be able to play the video within the Short Teaser frame.
- Once the video starts, there should be an advertisement notification below the video as shown.

Short Teasers



The Mountain Climber
Advertisement in 00:05



The Lost Rail



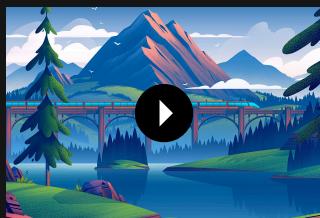
The Long Ride

- After 5 seconds, the video must auto pause and show the advertisement for next 2 seconds as shown.

Short Teasers



The Mountain Climber
Video Resumes in 00:02



The Lost Rail



The Long Ride

- The video must resume automatically after the advertisement's time limit.
- Support the implementation with unit testing.

Service Calls

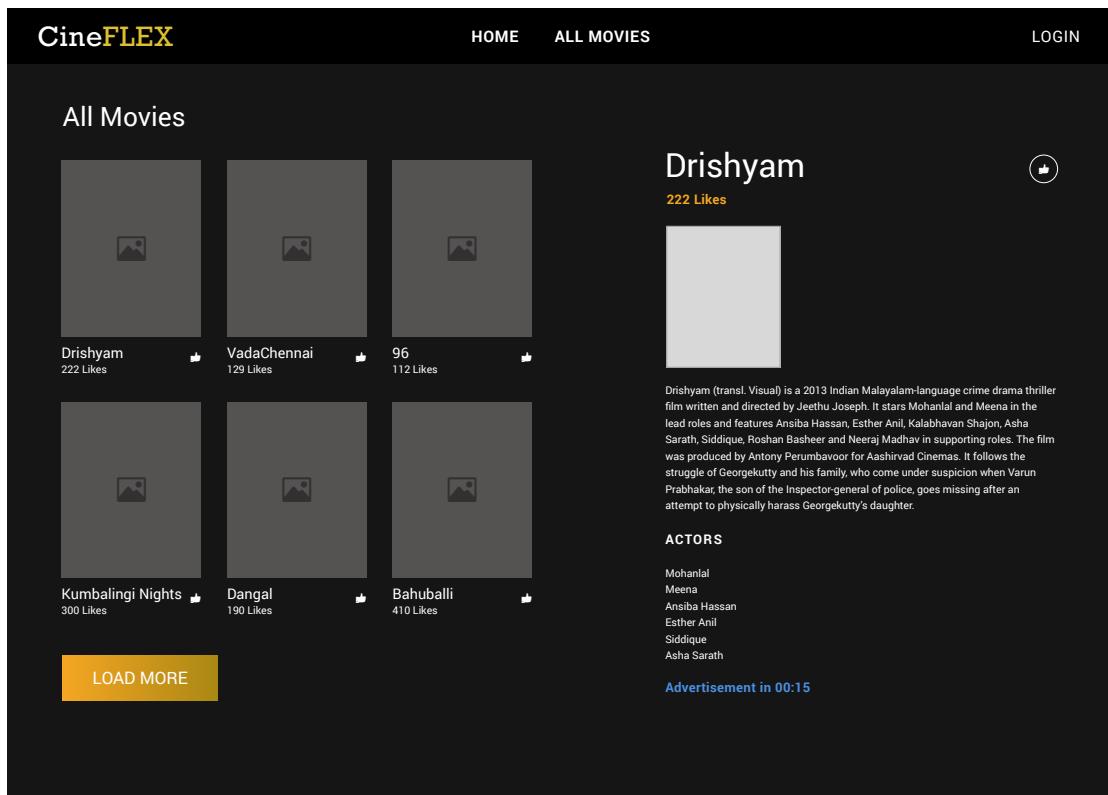
`getShortTeasers()`

1.5 View in Other Languages Section

Note: This is a Static Content

Support the implementation with Snapshot Testing

Page 2. All Movies



2.1 All Movies Section

Functionality

- Display the list of movies fetched from the service.
- All Movies Container has an internal scroll with “Load More” Button.
- On click of “Load More”, send an API request to the server to load more movies.
- On Click of Movie Poster, show the movie details on the right side 2.2. Movie Description Container.
- On Clicking Like icon, increment the number likes. (Show N Likes below the movie name)
- Make sure the likes count in *2.1 All Movies Section* and *2.2 Movie Description Section* always match.
- Support the implementation with unit tests.

Service Calls

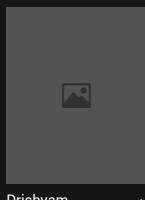
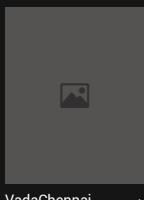
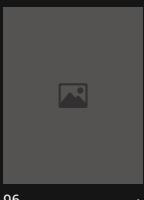
`getMovies(pageNo)`

2.2 Movie Description Section

Functionality

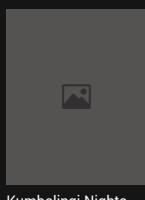
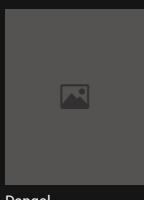
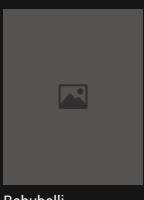
- Display the details about the selected movie from 2.1 All Movies Section.
- Clicking on Like Icon in Description should increment the like for the movie.
- Movie Description should be available only for 15 seconds after which an advertisement should pop up in the same container.

All Movies

Drishyam
222 LikesVadaChennai
129 Likes96
112 Likes

Drishyam

222 Likes

Kumbalingi Nights
300 LikesDangal
190 LikesBahuballi
410 Likes

LOAD MORE

Drishyam (transl. Visual) is a 2013 Indian Malayalam-language crime drama thriller film written and directed by Jeethu Joseph. It stars Mohanlal and Meena in the lead roles and features Ansiba Hassan, Esther Anil, Kalabhavan Shajon, Asha Sarath, Siddique, Roshan Basheer and Neeraj Madhav in supporting roles. The film was produced by Antony Perumbavoor for Aashirvad Cinemas. It follows the struggle of Georgekutty and his family, who come under suspicion when Varun Prabhakar, the son of the Inspector-general of police, goes missing after an attempt to physically harass Georgekutty's daughter.

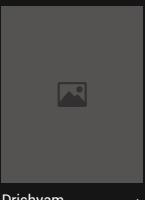
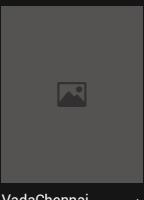
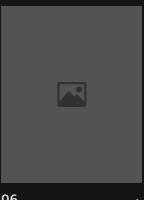
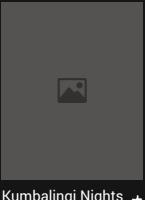
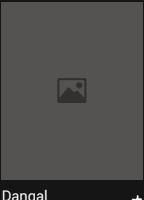
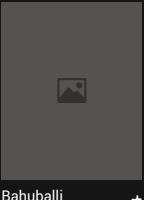
ACTORS

Mohanlal
Meena
Ansiba Hassan
Esther Anil
Siddique
Asha Sarath

Advertisement in 00:15

- The advertisement would disappear after 5 seconds, again showing the selected movie's description

All Movies

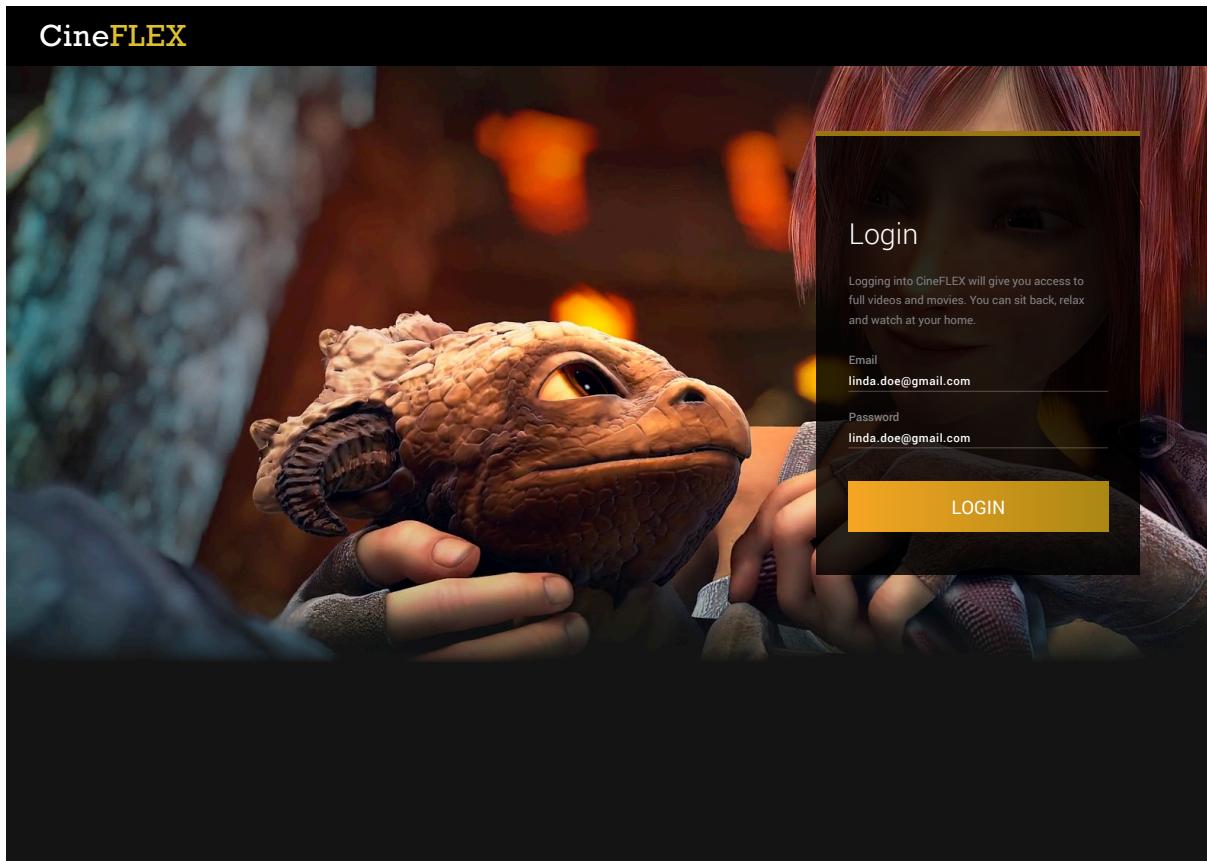
Drishyam
222 LikesVadaChennai
129 Likes96
112 LikesKumbalingi Nights
300 LikesDangal
190 LikesBahuballi
410 Likes

LOAD MORE



Note: You are provided with advertisement images. Randomly selected any image to show in the advertisement.

Page 3. Login



Functionality

- The user credentials can be hardcoded within the Login Service to mock external login action. You could do a check against your service for entered username and password.
- Only Logged in users should have access to “Now Showing” page.

Guest User Header



Logged In User Header



Page 4. Now Showing

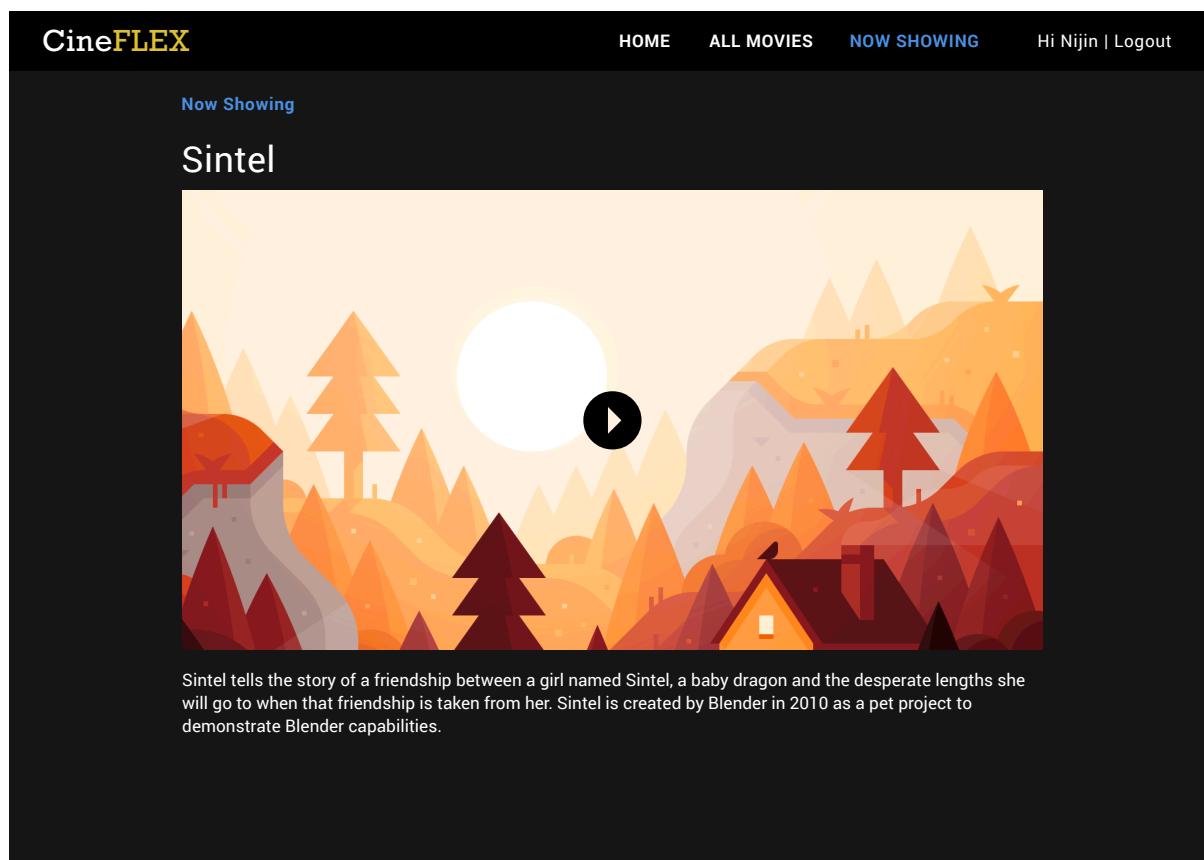
Functionality

- Only Logged In users should be able to access this page.

- Users can view the full video here.

Static Content - Video URL

<https://tympanus.net/Development/SeatPreview/media/sintel.mp4>



HOC Component Implementation

Support Advertisement implementation in Short Teasers and All Movies with a HOC component named **withAdvertisement**

Resources

1. CineFLEX logo
 2. Advertisements
 - a. Large Promos (For Showing in All Movies)
 - b. Small Promos (For Showing in Short Teasers)
-

Fonts : Roboto (Google Font)