Project Report : CineverSE

Project name : 'cineverse'
Developer **:** Sreekar Basa

INTRODUCTION :-

- This is a project named 'cineverse' – Multi-paged web application developed using Django, Html, CSS, Jsp .
- Django is the only backend used in the project and html, css, jsp were used for frontend development while Html being used most.
- cineverse is a website that provides the information , reviews details about their ongoing/upcoming movies playing in their theatre. So it is an informative website.
- As cineverse is a dynamic website movies can be added (or) removed , details of movies can be edited (or) removed .
- Assuming cineverse as a existing theatre somewhere , this multi-paged web application is developed.
- It contains 5 pages :-
    - ✓ Home
        - ➢ Links to movie Trailers .
    - ✓ Movie Information
    - ✓ Cineverse Information
    - ✓ Reviews
        - ➢ Individual links to movie reviews and details (Wikipedia , IMDb, Marvel…etc)
    - ✓ About us
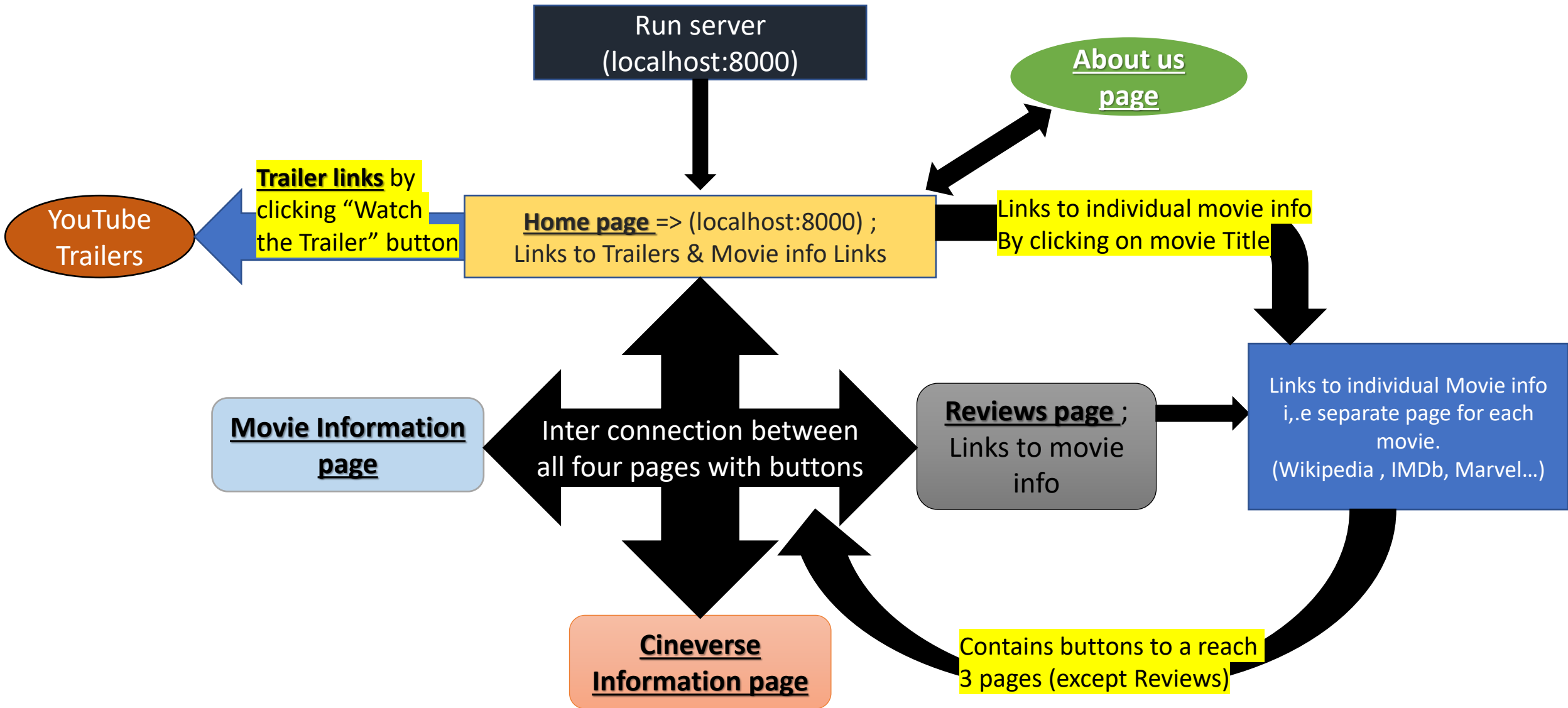
Requirements :-

- To create this web application, software requirements are :
  - ➢ Python should be installed in the device ; My python version : (3.8.9)
  - ➢ Django should be installed in the device ; My Django version : (4.0.6)
  - ➢ A Python, Django complier (or) IDE is required ; My IDE : PyCharm
  - ➢ A web browser is required to test / use the web application ; My web browser : Google chrome , Google chrome beta.

- Prior knowledge in python(basics) , oops(object oriented programming) and Django are required .
- Knowledge of Command prompt and few commands are required .
- Knowledge of Html is required.
- Attractive templates are also needed(But not compulsory) to get a good looking website, if design is not important (i.e. only the functioning of website) templates are not required.
- My templates : Travello colorib template (For Home page) ; Nicepage – customized template (For About us page).

```
Directory of C:\Users\91901\Documents\Django_major

07-08-2022  18:41    <DIR>          .
07-08-2022  18:41    <DIR>          ..
06-08-2022  18:12    <DIR>          .idea
05-08-2022  17:23    <DIR>          assets
07-08-2022  16:47    <DIR>          cineverse
07-08-2022  09:36           143,360 db.sqlite3
06-08-2022  20:10    <DIR>          Django_major
04-08-2022  18:29    <DIR>          major_signup
20-07-2022  09:39               690 manage.py
05-08-2022  17:12    <DIR>          static
07-08-2022  18:24    <DIR>          templates
               2 File(s)        144,050 bytes
               9 Dir(s)  369,777,954,816 bytes free
```

- We need to create a virtual environment for Django and a startproject 'my_app' (Django_major for me).
- Need to other create a app(s) to get the required output .
- Need a folder to store all the templates.
- Need folders to store all static sources for frontend design.
- Text files can also be created, to note any important points and to write our plans , explanation ..etc.
- Hardware requirement : laptop /pc with windows-7 and above /mac/Linux .

Project overview :-

- **Flow chart of Navigation :-**

Run server (localhost:8000)

About us page

Trailer links by clicking "Watch the Trailer" button

YouTube Trailers

Home page => (localhost:8000) ; Links to Trailers & Movie info Links

Links to individual movie info By clicking on movie Title

Movie Information page

Inter connection between all four pages with buttons

Reviews page ; Links to movie info

Links to individual Movie info i,.e separate page for each movie. (Wikipedia , IMDb, Marvel…)

Cineverse Information page

Contains buttons to a reach 3 pages (except Reviews)

Project overview :-

- **Models created inside cineverse app**:-

Used in **home** and **info** in views

```python
class Movie(models.Model):
    Name: str          # Name of the movie
    lang: str          # Language of the movie
    screen: str        # screens at which movie is Playing
    Details: str       # show running length
    prices: str        # price - price format (For future requirement)
    shows: str         # At what shows movie is playing
    icon: str          # Poster of the movie
    link: str          # Trailer Links (YouTube)
    availability: str  # comment on sets filling / availability
    available: str     # Based on availability of shows for a movie
    upcoming: bool     # Differentiates between existing and upcoming movies
    upd: bool          # Available (or) Houseful
```

Used in **info** in views

```python
class screen(models.Model):
    show_movie: str    # Movie Name
    show_s1: str       # Shows playing of movie in a screen1
    show_s2: str       # Shows playing of movie in a screen2
    show_s3: str       # Shows playing of movie in a screen3
```
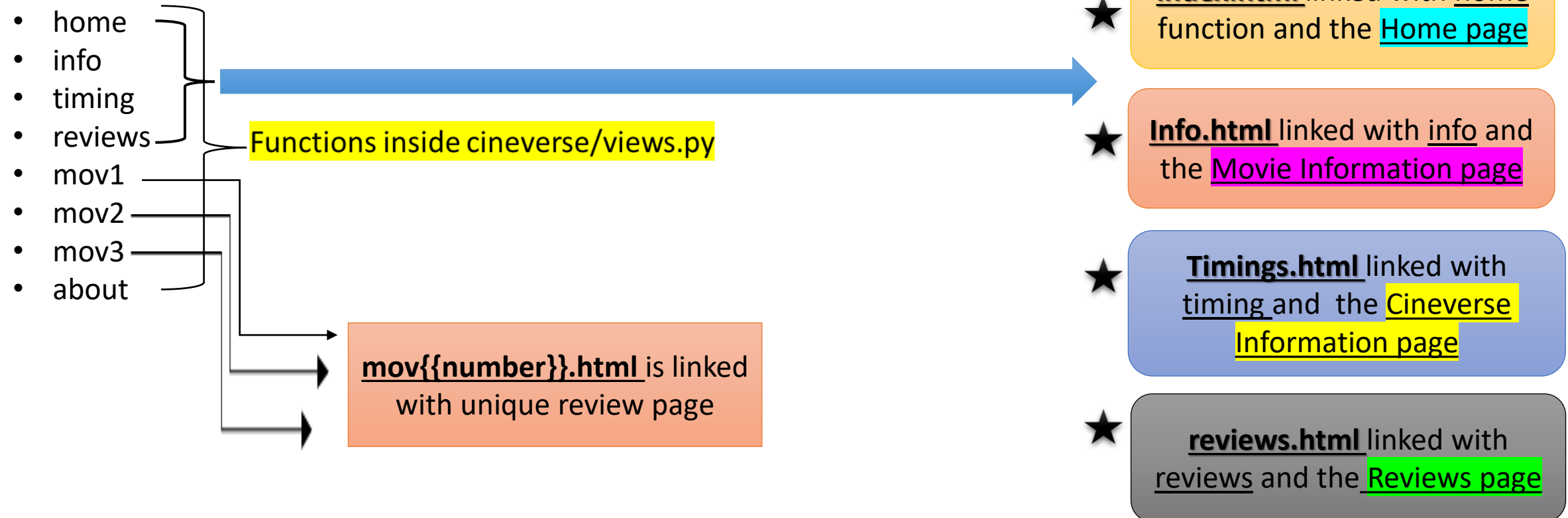
Used in **timing** in views

```python
class timings(models.Model):
    Name: str    # No use
    cost1: str   # Cost of platinum class seats
    cost2: str   # Cost of golden class seats
    cost3: str   # Cost of silver class seats
    sc1: str     # To display timings , unorthodox way
    sc2: str     # To display timings , unorthodox way
    sc3: str     # To display timings , unorthodox way
```

Used in **reviews** in views

```python
class review(models.Model):
    Name: str    # Movie Name
    rating: str  # IMDb rating of the Movie
```

Project overview :-

- As cineverse is developed using Django , it works based on MVT.
- Models are outline / blueprints of the object , the fields are defined here and are assigned with some data.
- Views links the models to Template . Views.py is responsible for the function/logic of a Django app.
- Every function in views is linked with a HTML file and variable in the views.py are passed into the file, i.e. variables can be edited inside views to see the change in frontend view for a user.
- Each time there is a change in views.py it will render the webpage as cineverse used return render(request, 'file.html') in all the functions.

- home
- info
- timing
- reviews
- mov1
- mov2
- mov3
- about

Functions inside cineverse/views.py

mov{{number}}.html is linked with unique review page

★ **index.html** linked with home function and the Home page

★ **Info.html** linked with info and the Movie Information page

★ **Timings.html** linked with timing and the Cineverse Information page

★ **reviews.html** linked with reviews and the Reviews page

Working of the project :-

- First a plan or a brief overview about the project is required in order to work efficiently.
- After completion of code according to requirement , web application should be tested in web browser.
- First virtual environment should be activated , then run server.

```
C:\Users\91901\Documents\django>c Scripts
'c' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\91901\Documents\django>cd Scripts

C:\Users\91901\Documents\django\Scripts>activate

(Django) C:\Users\91901\Documents\django\Scripts>cd ..

(Django) C:\Users\91901\Documents\django>cd..

(Django) C:\Users\91901\Documents>cd Django_major

(Django) C:\Users\91901\Documents\Django_major>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
August 08, 2022 - 13:20:15
Django version 4.0.6, using settings 'Django_major.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

- After moving to cineverse/urls.py there will be URLs for many web pages .

- URLs are set in a such a way that localhost:8000 is set as default page / home page.

```python
from django.contrib import admin

from django.urls import path, include

urlpatterns = [
    path('', include('cineverse.urls')),
]
```

```python
from django.urls import path

from cineverse import views

urlpatterns = [
    path("", views.home, name='home'),
    path("info", views.info, name='info'),
    path("reviews", views.reviews, name='review'),
    path("about", views.timing, name='timing'),
    path("aboutus", views.about, name='about'),
    path("Vikram", views.mov1, name='mov1'),
    path("Sita Ramam", views.mov2, name='mov2'),
    path("Thor Love and Thunder", views.mov3, name='mov3'),
]
```
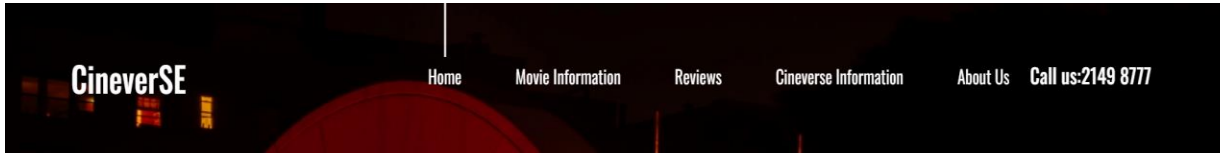
- Each URL will takes user to different pages.
- Ex:- **/info** to Movie Information page.
- **/aboutus** to aboutus.html and after 1 second redirects to About Us page.

- **Home page:**
✓ Home page is with basic information in brief.
✓ Home page contains many buttons that leads to different pages.
1) Buttons on the footer redirects to respective pages .

2) Button "Watch the Trailer redirects to respective trailers of the movie.

3) By clicking on the name of each movie, it redirects to movie info. # Vikram

Note : Search bar in the home page redirects to home page itself, as it comes with template no changes are done.

➢ **[Movie name , Movie language , Movie length]** are variable and can be edited views.py .
➢ Many movies can added simply by adding a new data item views.py inside particular function , instead of mentioning in html page .
➢ Variable are passed dynamically to the page.
➢ For loop is used in html page to create as many as movie blocks in the home page.
➢ If conditions are also used to mention the status of availability of tickets for today and to represent the playing and upcoming movies.

- By clicking on from home page 'CineverSE' redirects to same home page.
- By clicking on home button on Home button redirects to same page again.

- **Movie Information page**:
- ✓ Movie Information page gives user a brief overview about the movie, in a table format .
- ✓ 1) Shows that are playing in all screens .
- ✓ 2) Screen(s) in which movie playing .
- ✓ 3) Trend in which seats are filling .
- ✓ 4) Wikipedia link.

- Information of shows of movie in a particular screen is also show in another Table for user clarity.

- **Cineverse Information page:**
- Cineverse Information page gives user a brief overview about the movie, in a table format.
- ✓ 1) provides the Show Timings
- ✓ 2) provides the costs of a particular seat class ,
    - ✓ Platinum
    - ✓ Gold
    - ✓ Silver

- Here data is passed through the variables, i.e. dynamic content .
- For timings of shows only   00 , 20 , 35 are passed instead of whole time to make the code simpler.
- User could easily get to know about show, screen details.

Reviews page:

- Reviews page is one of the sub theme of CineverSE concentrating on the movie details.
- It gives the standard IMDB rating information.
- Gives information about a movie particularly in a separate page , with links.

- Individual movie link contains links of IMDb and Wikipedia..
- More information could be added and designing could be done but it will out of the theme of Backend Django.

- These links redirects to respective pages

Vikram Info

Sita Ramam Info

Thor Love and Thunder Info

- **About page:**
- This page is developed by using nicepage desktop app , Basic template was used that displays the brief information about ,what cineverse is .
- This page is obtained by clicking on the About Us button in Home page (only) , It is a one way page that may or may not be redirected to home page by clicking CineverSE icon , due to developer's restrictions.
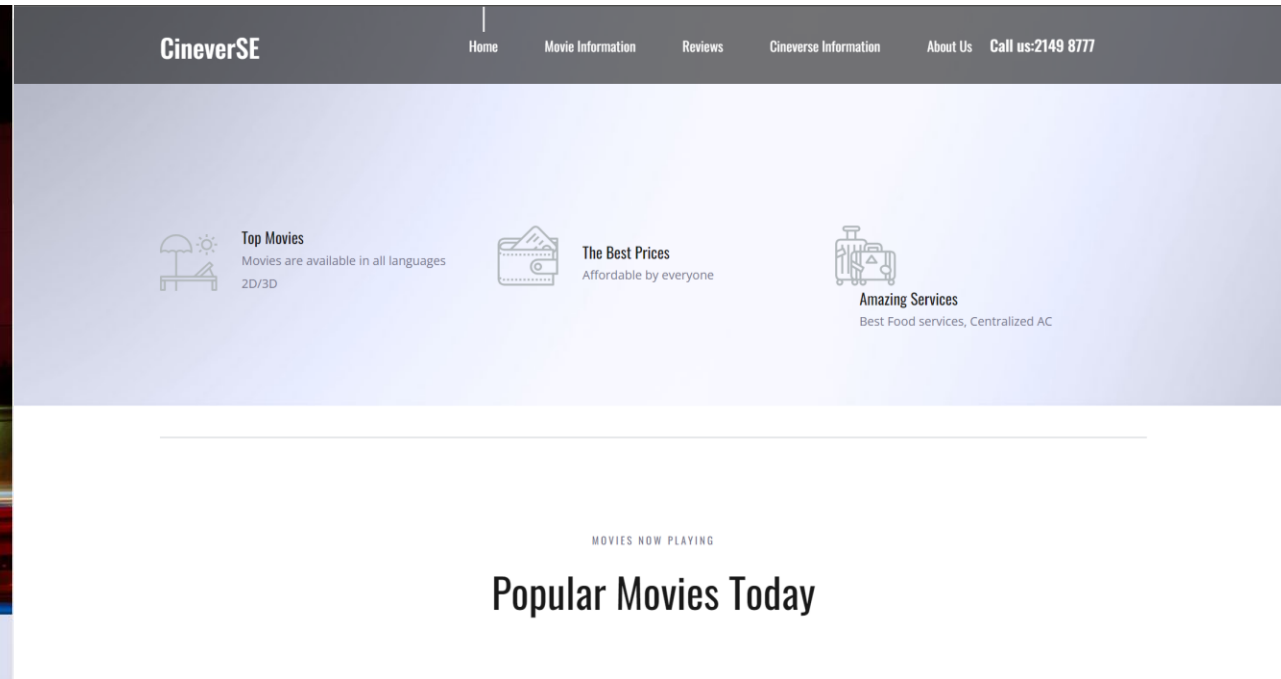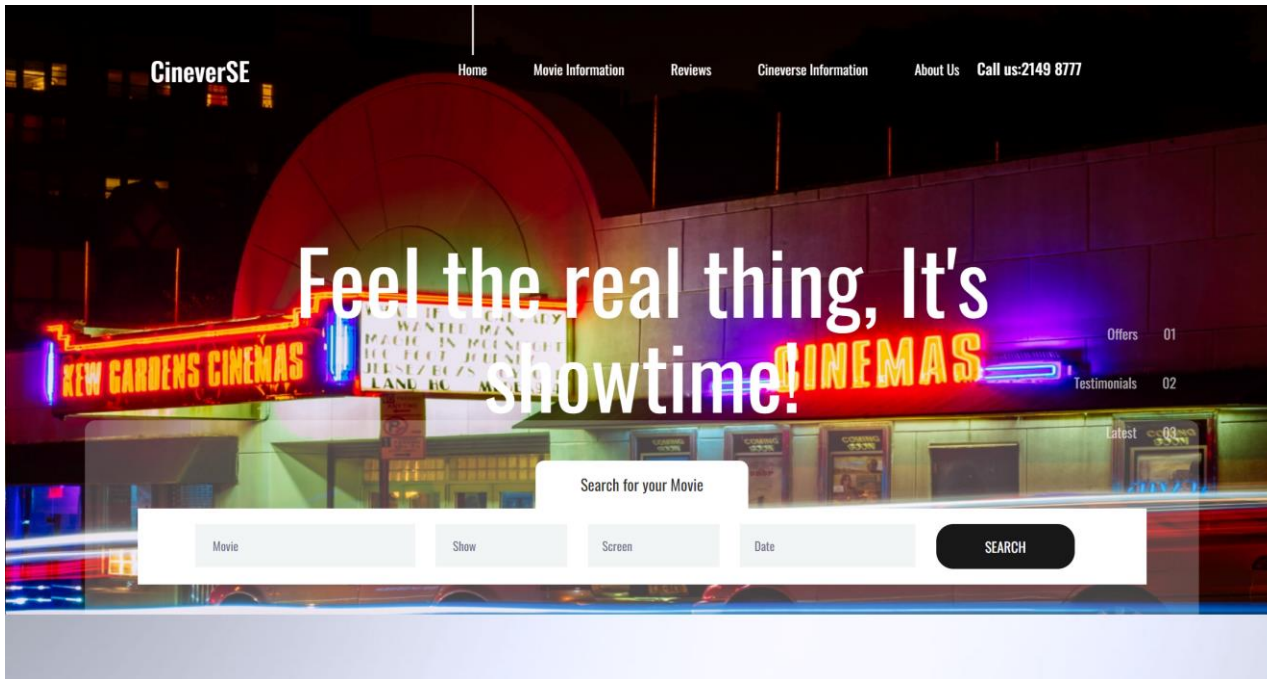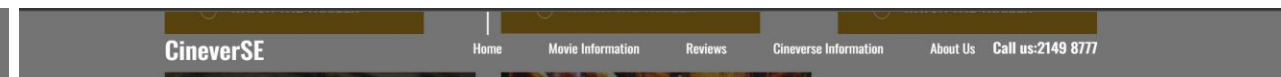
Movie Information page: (screen shot)

Wikipedia Links

CineverSE

Movies:

Movie	Show	Screen	Availability	Wikipedia Link
Sita Ramam	All Shows	Screen - 2,3	NIL	https://en.wikipedia.org/wiki/Sita_Ramam Info
Vikram	All Shows	Screen - 1	Filling Fast ; Available : 1,2,5	https://en.wikipedia.org/wiki/Vikram_(2022_film) Info
Thor Love and Thunder	Shows - 1,2,3	Screen - 3	1,2,3	https://en.wikipedia.org/wiki/Thor:_Love_and_Thunder Info

Reviews

Shows:

CineverSE	Screen - 1	Screen - 2	Screen - 3
Sita Ramam	-	shows - 1,2,3,4,5	shows - 4,5
vikram	shows - 1,2,3,4,5	-	-
Thor Love and Thunder	-	-	shows - 1,2,3

Cineverse Information

Cineverse Information page: (screen shot)

CineverSE

Movie Information

Reviews

Prices and Timings:

CineverSE shows	screen - 1	screen - 2	screen- 3
show - 1	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 9:00]	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 9:20]	Platinum : 220/- ; Gold : 140/- ; Silver : 80/- [From 9:35]
show - 2	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 12:00]	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 12:20]	Platinum : 220/- ; Gold : 140/- ; Silver : 80/- [From 12:35]
show - 3	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 15:00]	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 15:20]	Platinum : 220/- ; Gold : 140/- ; Silver : 80/- [From 15:35]
show - 4	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 18:00]	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 18:20]	Platinum : 220/- ; Gold : 140/- ; Silver : 80/- [From 18:35]
show - 5	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 21:00]	Platinum : 250/- ; Gold : 150/- ; Silver : 90/- [From 21:20]	Platinum : 220/- ; Gold : 140/- ; Silver : 80/- [From 21:35]

Review page: (screen shot)

CineverSE

Movie Information

Cineverse Information

Shows:

CineverSE Movies	Rating	Reviews and Details
Vikram	8.5/10 IMDb	**Vikram Info**
Sita Ramam	9.0/10 IMDb	**Sita Ramam Info**
Thor Love and Thunder	6.7/10 IMDb	**Thor Love and Thunder Info**

Note:

Click on links in 3rd column
to get Movie's Review and Details

Particular Movie pages:

About Us redirecting page: It redirects to About Us page made with an design app, thus this is used as a bridge.

CineverSE

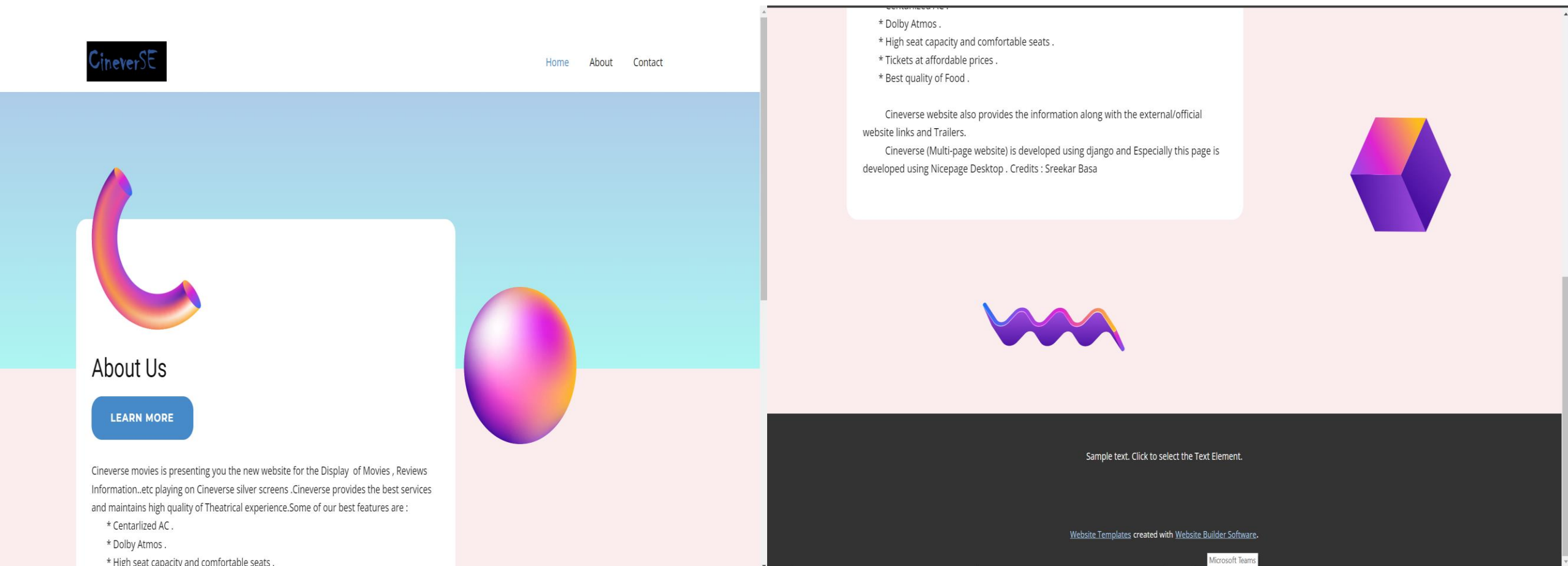Reviews
Pricing & Timing
Movie Information

Redirecting to About us page ....

About Us page: (made with Nicepage desktop)

CineverSE

Home   About   Contact

* Dolby Atmos .
* High seat capacity and comfortable seats .
* Tickets at affordable prices .
* Best quality of Food .

    Cineverse website also provides the information along with the external/official website links and Trailers.
    Cineverse (Multi-page website) is developed using django and Especially this page is developed using Nicepage Desktop . Credits : Sreekar Basa

About Us

LEARN MORE

Cineverse movies is presenting you the new website for the Display of Movies , Reviews Information..etc playing on Cineverse silver screens .Cineverse provides the best services and maintains high quality of Theatrical experience.Some of our best features are :
    * Centarlized AC .
    * Dolby Atmos .
    * High seat capacity and comfortable seats .

Sample text. Click to select the Text Element.

Microsoft Teams

Conclusion:

- CineverSE finally is a good information app which has it's own use.
- The main theme is decided by the users , based on their interests found in this Web-application, that will the future scope and target of this project.
- Designing part needs to be improved , as users attracts to design , creativity .
- '**Booking**' option could be added in this site and this could take CineverSE to higher level , to compete with other websites.
- '**Booking**' page is the next future of this web-application CineverSE, sign in and signup features are need to be added in this website , to make it better and useful.
- Finally CineverSE is informative website and in future it will become Booking web site too.
- I thank Skill vertex Team regarding my training in Basic python and Django.

- **Templates and Images**:
➤ Travello colorib – Home page
➤ About Us page – Nicepage
➤ Images are collected from various other websites. (pixel bay, filmy focus, wallpapercave, wallpaperaccess etc..)