



Ahmedabad
University

Ahmedabad University

School of Engineering and Applied Science

Winter 2021 Semester

Human Computer Interaction (HCI)

Project Report-3

Movie Ticket Booking System

Guided By:

Prof.Anurag Lakhlani

Team Name:

Hypertext Assassins

Team Members:

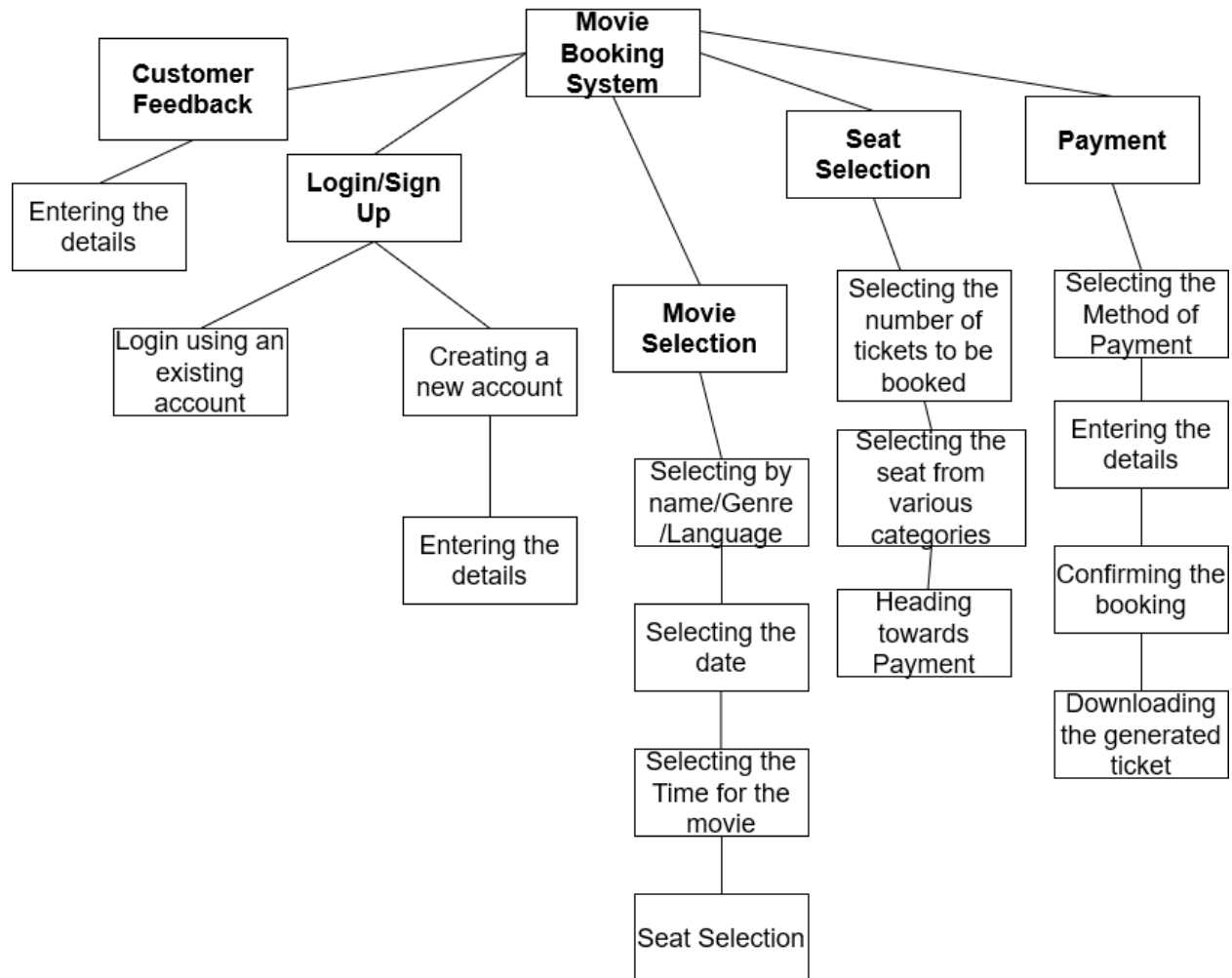
Yugamsinh Chavda(AU1841090)

Harsh Mange (AU1841130)

Kishan Patel (AU1841132)

Sharvil Patel (AU1841134)

Hierarchical Task Analysis



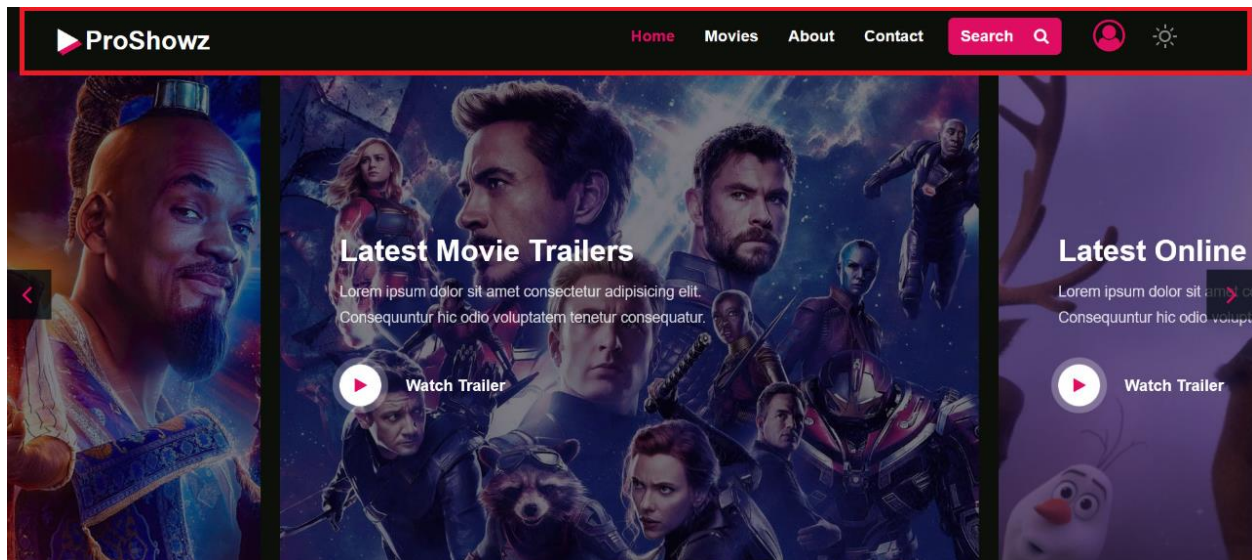
Feature-1

Home page – Strive for Consistency

Created by: Kishan Patel

Functionality: The use of this feature is to help users navigate through the various pages like the Movies page, contact Us, About Us. It would help the user to create a new account or login in to an existing account through the Login Option provided. It will also help the user to change the color theme (light or dark).

Photo of Implementation:



Description of Principle: Strive for Consistency

- Similar operations to achieve similar tasks.
- Makes things easy to learn and use
- Example: Many functions on MS word and MS Power point function ribbons.
- Consistency can be in terms of colors (red, Green...), etc..
- Identical technology in prompts, menus, help.

- Color, capitalization, layout, fonts
- Consistency between next versions of s/w or app.

Description of the implementation in our feature: As you can even when the user scrolls down through the webpage the navigation bar remains fixed at the top which prevents the user from scrolling back up again and again if he wishes to perform some tasks. There is also a button at the end of the page which on clicking guides the user to the starting of the page. The Logo of the website is always shown on the left-hand side which shows the consistency and the theme option is always provided on the top right corner.

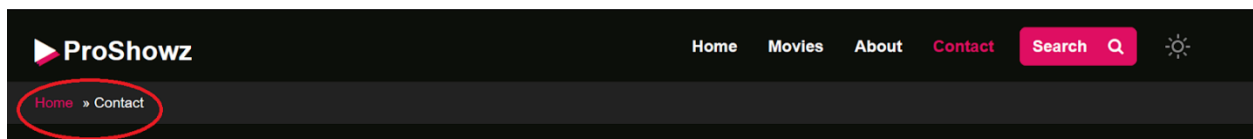
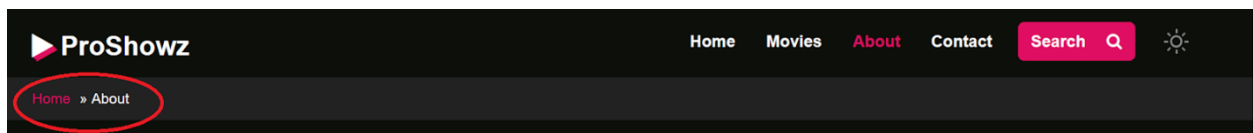
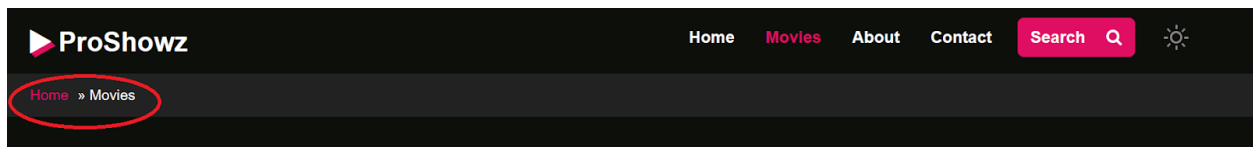
Feature-2

Movies page - Reduce short term memory load

Created by: Kishan Patel

Functionality: This feature provides a complete path of the webpage that the user currently at and it deprives the user from remembering which was the previous page as he can easily go to the previous page through the path provided.

Photo of Implementation:



Description of Principle: Reduce Short Term Memory Load

- Humans has limited capacity to store/process information in short term memory (seven plus or minus two chunks).
- cell phones should not require re-entry of phone numbers when redialing.
- website locations should remain visible.
- Multiple page display should be consolidated

- Sufficient training time should be given for difficult sequences of actions.

Description of the implementation in our feature: The principle aims at reducing the amount of information that the user has to remember. The principle is implemented in a way that the complete path of the webpage is provided at the top of the webpage. For example, if the user moves from the Home page to the Movies page, then the path would be given as Home>>Genre. This gives information that the previous page was home page and on clicking home he can go to the Home page. In this manner the user does not have to remember things.

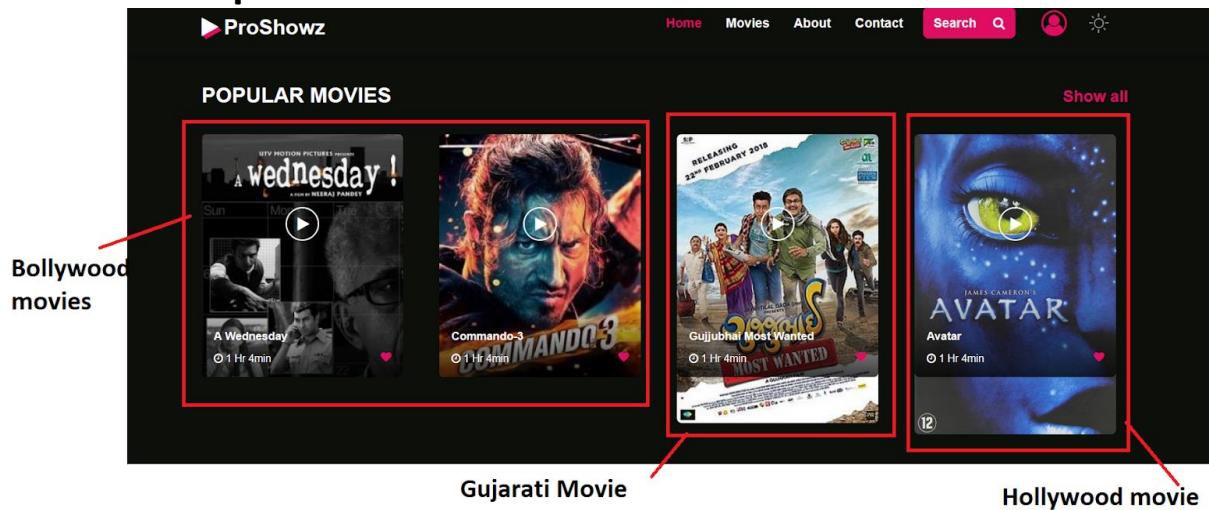
Feature-3

Home page - Cultural and International diversity

Created By: Sharvil Patel

Functionality: With the help of these features the user can select from a variety of movies based on language such as Hindi, Gujarati, English etc. This provides choices for a large category of users.

Photo of Implementation



Description of Principle: Cultural and International Diversity

- Date and Time formats
- Numeric and Currency formats
- Left to right vs Right to left reading
- Weight and Measures
- Icons, buttons, and colors
- Etiquette, formalities, metaphors

Description of the implementation in our feature: The principle is implemented in a way that the user is provided with a number of options of the movies which he wishes to watch on the basis of different languages such as Hindi, Gujarati, English etc. For E.g. A user from India would prefer watching Hindi or Gujarati movies whereas the User from south or from foreign would prefer watching English movie. Hence in this way a large audience can be targeted.

Interaction Style: The interaction style would be menu selection where the user reads from a list of movies, selects an appropriate movie as per his convenience, and observes the effect of that action. It has a clear structure for the decision making as all possible choices are present at one time

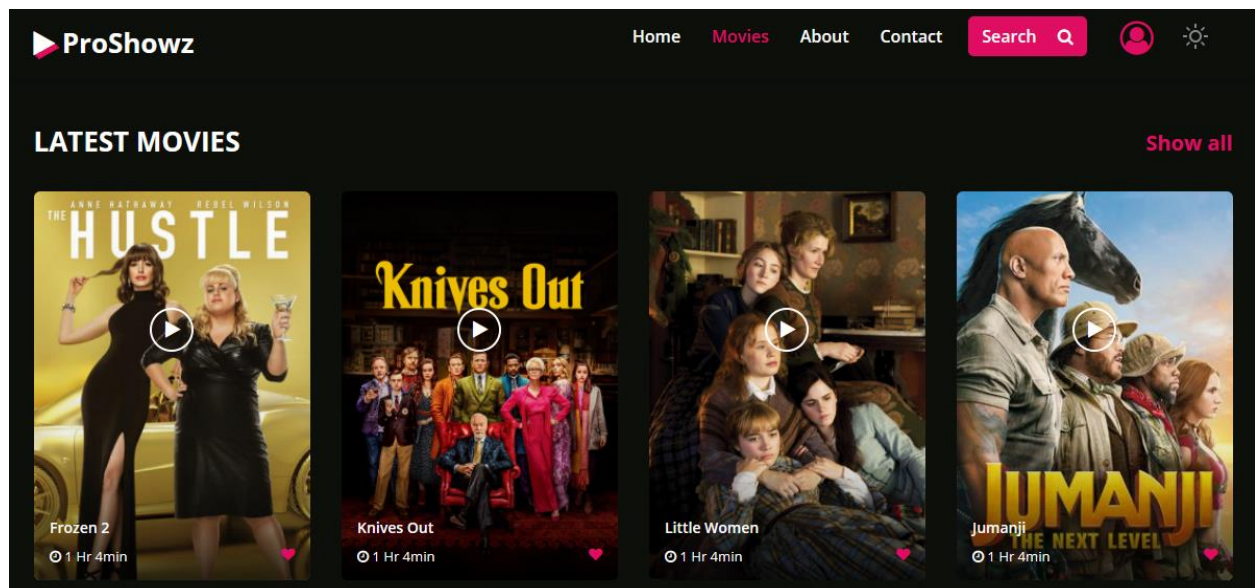
Feature-4

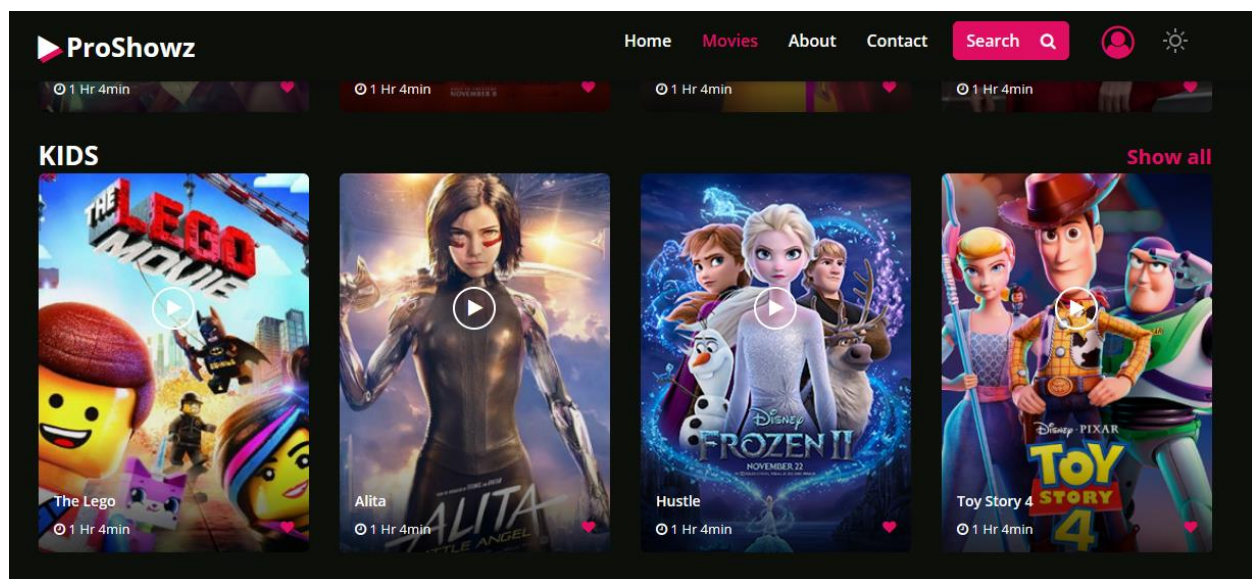
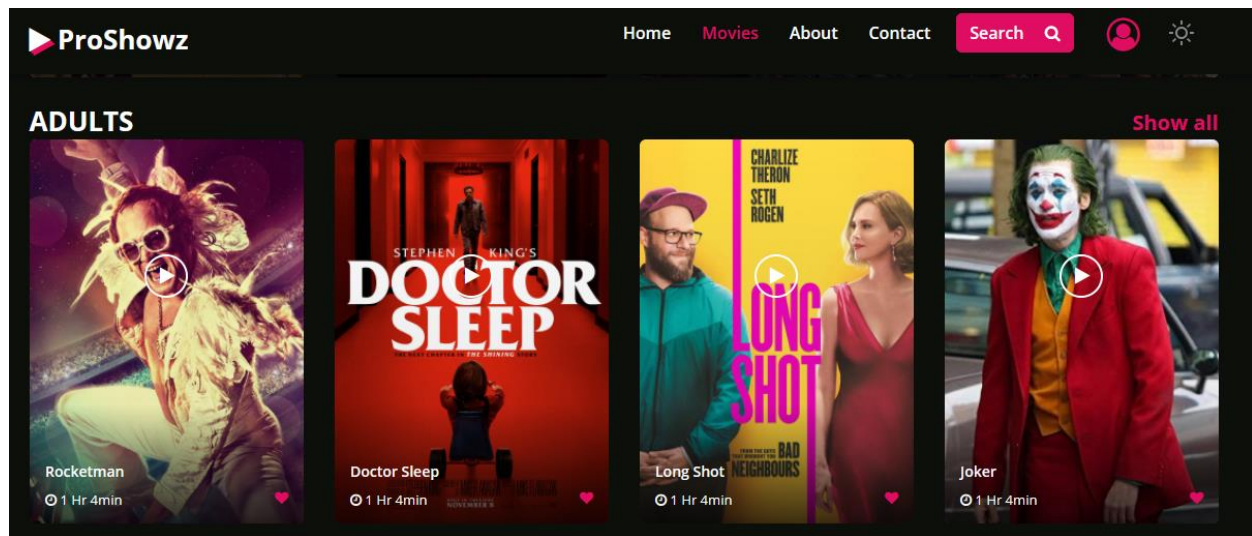
Movies page - Types of user (children, adult...)

Created By: Sharvil Patel

Functionality: This feature provides a list of movies on the basis of various categories such as new releases, Children section, adult movies, recently watched etc. which makes it easy for the user to choose from on the basis of his preference.

Photos of Implementation:





Description of the implementation in our feature: The principle is implemented in a way that there is a separate section for the children which would include cartoon movies, series etc. There is also a section which include only some movies which would have some age restrictions which would allow only a certain audience to watch the movie.

Description of Interaction Style: The interaction style would be menu selection where the user reads from a list of movies, selects an appropriate movie as per his convenience, and observes the effect of that action. It has a clear structure for the decision making as all possible choices are present at one time

Feature-5

Contact us page - Prevent errors and constraint

Created By: Yugamsinh Chavda

Functionality: This feature is used for recording the user response regarding the experience of the website or if they have any feedback regarding the services provided or if they are not satisfied with the features that are currently provided. These details can be further used for improvement of the website.

Photo of Implementation:



The screenshot shows a 'Contact Us' form titled 'Contact Us' and 'LEAVE A MESSAGE'. The form includes fields for 'First Name' (containing 'Yugam'), 'Email ID' (empty), and a message area ('Type your message Here'). A 'Submit' button is at the bottom. A modal error message is displayed in the center, stating 'Empty Field' and 'E-mail' can not be empty!!', with a red 'X' icon and a blue 'X CLOSE' button.

Description of Principle: Prevent Errors and Constraints

- Design system such that the user cannot make serious errors
 - Gray out menu that are not appropriate
 - Do not allow alphabetic characters in numeric entry fields
- Constraints

- Restricting user to actions that can take place at a given time.
- Prevents unintentional error.
- Example: Order in Flipkart

Description of the implementation in our feature: The principle aims at designing the system in such a way that the user does not make serious errors. The principle is applied to the form in a way that all the fields are necessary to be filled. If the user does not fill any of the fields and clicks on the submit button then the form would not be submitted and the user would be asked to fill the field first. The Email field also has a validation that it should end with @gmail.com. There is also a validation in the Mobile number field that alphabetic characters would not be allowed.

Description of Interaction Style: The interaction style is form fill in where the user fill in the blanks about the information they are asked to provide. The user sees a display of related fields, move the cursor among the fills and enters the data

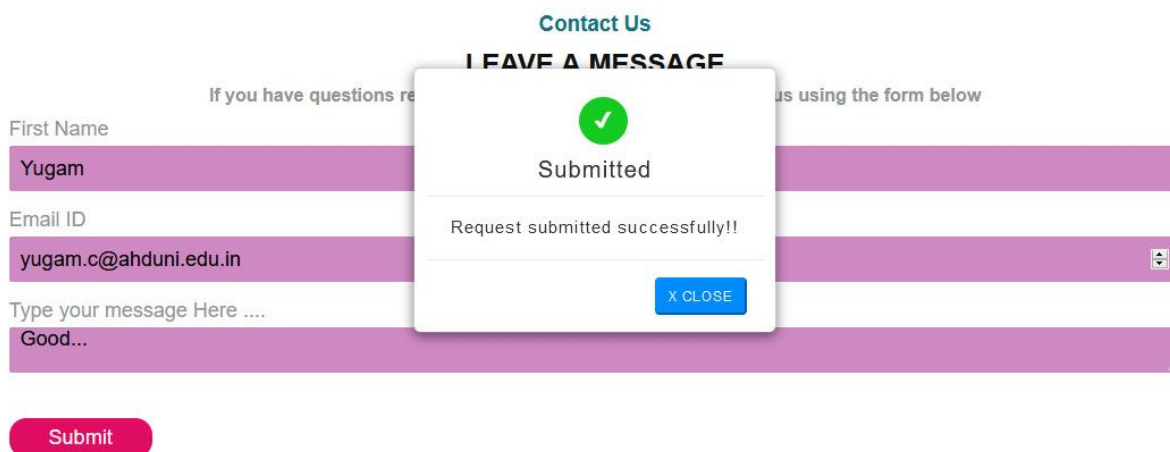
Feature-6

Contact us page -Design dialogs to yield enclosure

Created By: Yugamsinh Chavda

Functionality: This feature is used for providing message to the user after the completion of a particular task which informs the user what actions have been completed and also provide some additional information like summary etc.

Photo of Implementation:



The image shows a web form titled "Contact Us" with the subtitle "LEAVE A MESSAGE". The form includes fields for "First Name" (filled with "Yugam"), "Email ID" (filled with "yugam.c@ahduni.edu.in"), and a message area (filled with "Good..."). A "Submit" button is at the bottom. A modal dialog box is overlaid in the center, displaying a green checkmark, the word "Submitted", and the message "Request submitted successfully!!". The dialog has a blue "X CLOSE" button.

Description of Principle: Design Dialogues to Yield Closure

- Sequences of actions should be organized into groups with beginning, middle and end.
- Example: e-commerce website moves users from selecting product to checkout, ending with a clear confirmation page that completes the transaction.

Description of the implementation in our feature: The principle Design Dialogue to yield closure aim on providing a clear confirmation after the completion of a particular task. For example, when the user fills the form regarding the submission of feedback on the Contact Us page, then after submitting the form, a pop-up message appears which contains the information like Thank You for your message and your feedback would soon be taken into consideration.

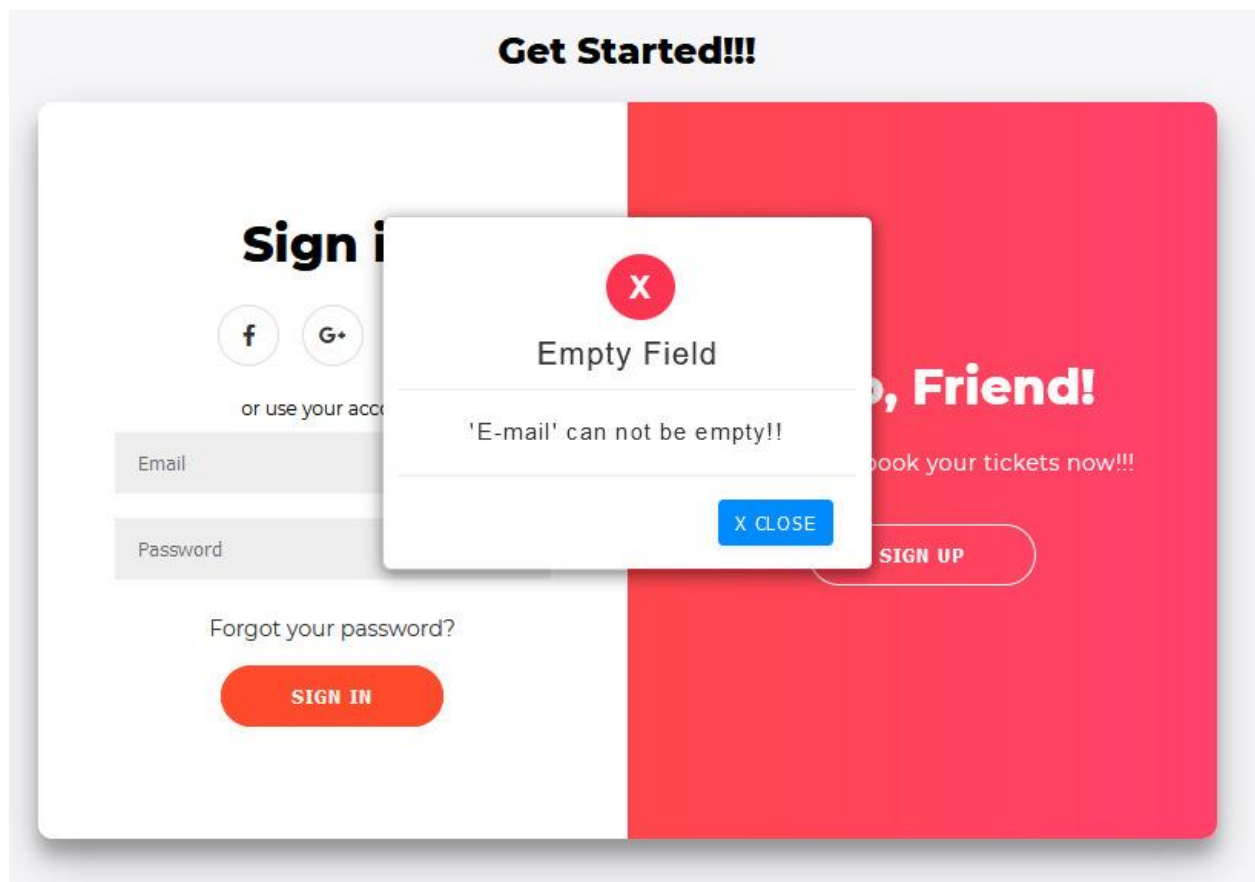
Feature-7

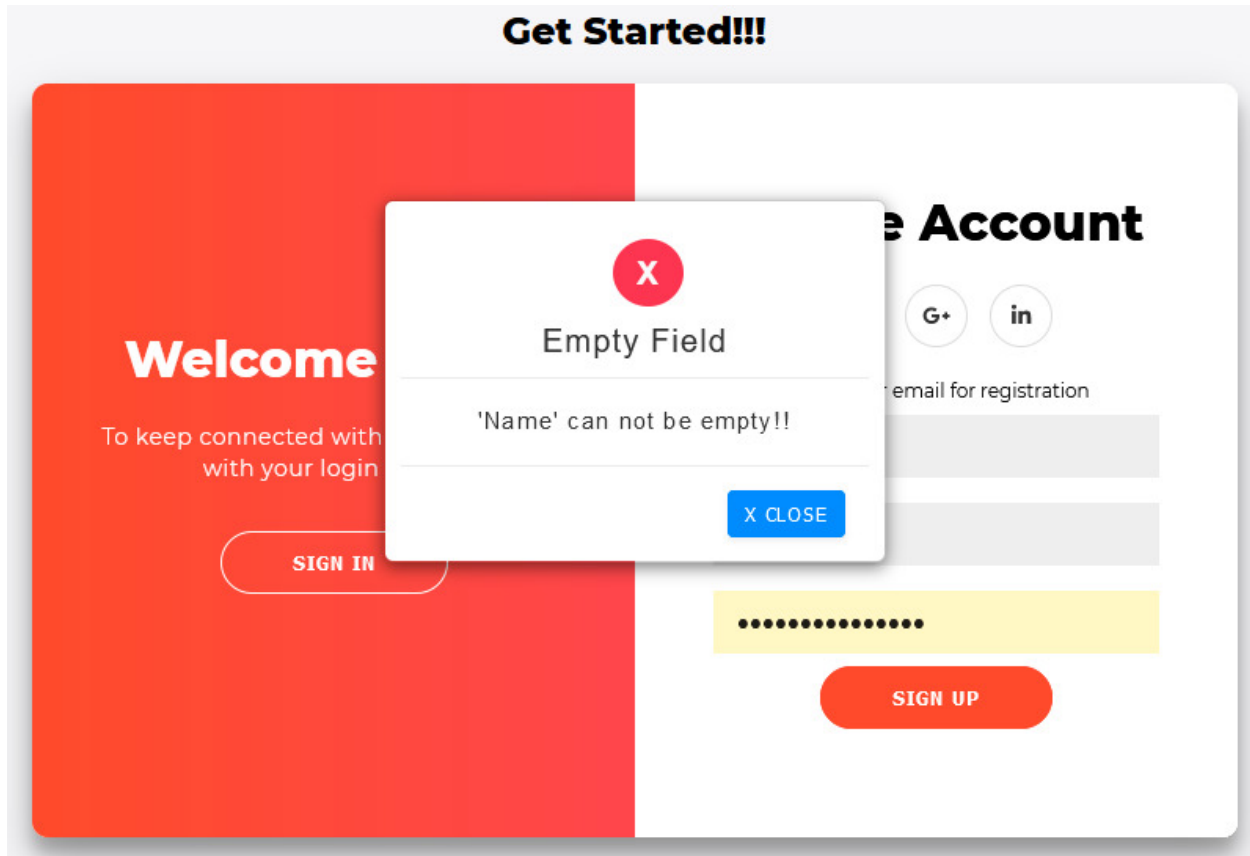
Login/Sign Up Page -Preventing Error and Constraints

Created By: Harsh Mange

Functionality: This feature is used for creating a new account for the website or to help the existing user log in to his account by providing the Username and the password. This feature is very helpful if a new user wants to perform some purchase activities etc.

Photos of Implementation:





Description of Principle: Prevent Errors and Constraints

- Design system such that the user cannot make serious errors
 - Gray out menu that are not appropriate
 - Do not allow alphabetic characters in numeric entry fields
- Constraints
- Restricting users to actions that can take place at a given time.
 - Prevents unintentional error

Description of the implementation in our feature: The principle aims at designing the system in such a way that the user does not make serious errors. The form is designed in such a way that errors do not occur. Like There is a validation that all the fields should be filled before submitting or pressing the submit button. If the user

presses the submit button without filling all the necessary fields then a message would appear asking the user to fill in the details before submitting.

Description of Interaction Style: The interaction style used here is form filling where the users are required to enter the set of information asked for the purpose of creating an account.

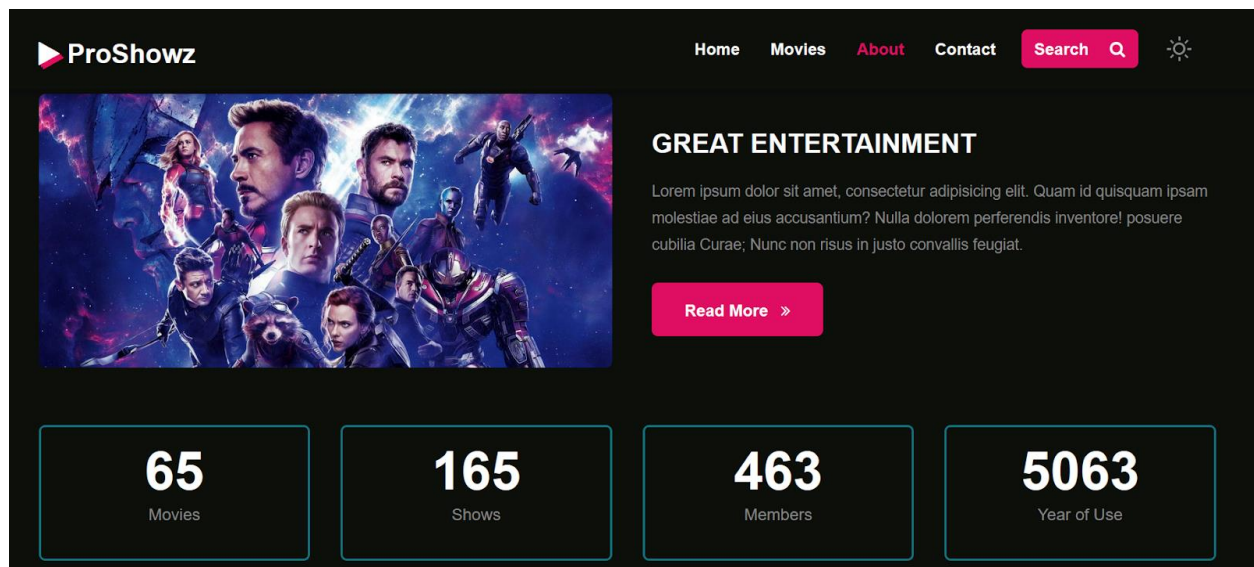
Feature-8

About Us Page -Reduce short term memory load

Created By: Harsh Mange

Functionality: This feature is used to provide information to the user in brief regarding how many movies are being shown or the number of shows completed so far, the number of members of the particular website or the number of visits to the website per year.

Photos of Implementation:



Description of Principle: Reduce Short Term Memory Load

- Humans has limited capacity to store/process information in short term memory (seven plus or minus two chunks).
- cell phones should not require re-entry of phone numbers when redialing

- website locations should remain visible.
- Multiple page display should be consolidated
- Sufficient training time should be given for difficult sequences of actions

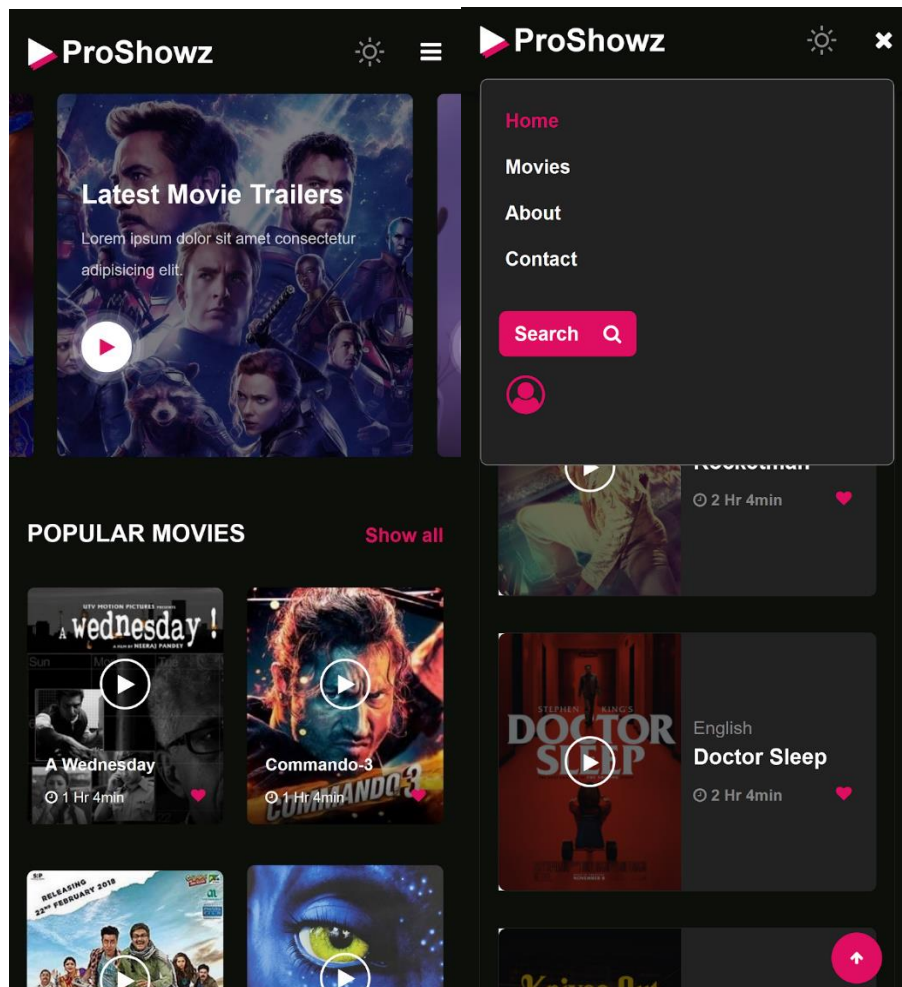
Description of the implementation in our feature: The principle aims at reducing the amount of information that the user needs to remember. The principle is implemented in a way that the users are provided with all the information regarding the website at one page. For example, it provides information like the number of movies being shown. It also provides information like the number of members which might be useful information for the admin and they can take certain measures to increase the number of users. This feature is helpful for the admin which helps him maintain the website.

Additional Feature

For all Pages : Cater for universal Usability

Functionality: With the help of the feature named responsive website, the user will be able to open the website on any device, be it phone, laptop or on the desktop. With the help of this feature the website would automatically reshape itself on the basis of the dimensions of the device where it is being used.

Photo of Implementation:



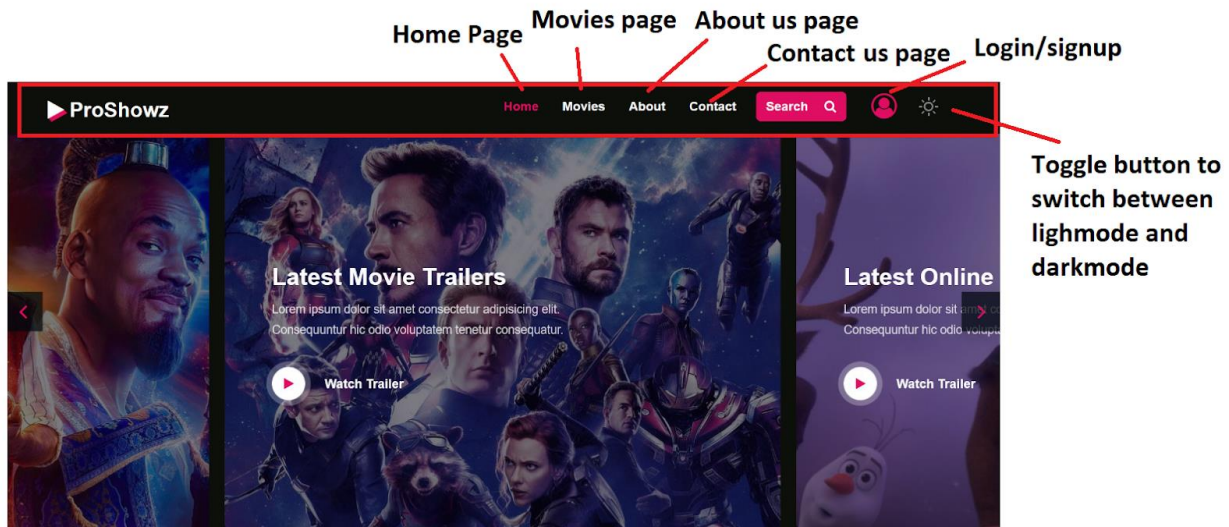
Description of Principle: Cater for Universal Usability

- Recognize the need of diverse users and design accordingly.
- Novice (include explanation) to Expert (include shortcuts)
- Age range
- Technological diversity (website can be opened on any platform, any device)
- Users with disabilities

Description of the implementation in our feature: When the user opens the website on the mobile phone or any android phone, the figure 1 shows how the website will look like on that particular device and if the user opens the same website on the laptop or the desktop, the figure 2 shows how that same website would appear. In this manner the principle is implemented.

Integration of all Features

Screenshot of the Integration: -



The above screenshot is the representation of our website when all the features are integrated from users' point of view.

- Upon visiting the website user will be able to see the home page where he can see many options like
 - Popular movies
 - New Releases
 - Upcoming movies
 - Movies Page
 - Contact Us Page
 - About Us Page
 - Search button
 - Login/Sign Up Page
 - Toggle button for dark or light mode

- At the end of the page there are different social media handle options of the website where users can contact them at any social media platform.
- Users can see all the categories of movies like Popular Movies, Latest Movies, Adult Movies, For Children, Horror Movies etc and see the details like duration and like percentage of users.
- Users can see the details of movies, cast and watch trailers of that movie to choose which movie to watch and book the tickets.
- To book any movie user needs to "login" if he/she has an account or he/she needs to "signup" and fill up all the details required to create a new account.
- In the about us page, there will be a description of the website like when it came into existence and all other stuff like that. Also, there will be stats of how many movies are running, how many members are there and how many shows are being displayed.
- In the contact us page, there will be a form through which the user can send his/her query related to any issue he/she is facing by mentioning his email-id to get his/her query solved.
- Users can search the movies using the keywords through the search button.
- Users can change the visibility mode between dark and light mode using a toggle button in every page.