Minutes of the Meeting

MEETING 1 :

Participants : Dhruv Mishra, Tavishi Srivastava, Shreekar Mane, Ripu Daman Singh, Sanyam Kabra, Ekta Saini

Agenda

Topic	Time	File
SRS overview	10 min	https://1drv.ms/w/c/8039175bd1074318/EbC3cY1hmiVAhf5rpwh-T7IBVD-M7zzY2zVgdHsKSOSQVg?e=aoOIDt

Topic	Time	File
Work allotment	10 min	https://drive.google.com/file/d/1BT2BCZtVBBZF8KGdl1gqlIEQWS76amSh/view?usp=sharing

DATE : Feb 24, 2025

MoM-1 :

- The meeting comprised **going through the SRS** thoroughly in order that each member understands and is completely aware of all the requirements. This was done to avoid conflicts in the codes of different team members. Following this, the project was divided into smaller chunks and **work was assigned** to the team members.
- The SRS and the work distribution are attached in the table above.

MEETING 2 :

Participants : Dhruv Mishra, Tavishi Srivastava, Shreekar Mane, Ripu Daman Singh, Sanyam Kabra, Ekta Saini

Agenda

Topic	Time	File
Work Progress Update	30 min	https://drive.google.com/file/d/1Q06QB1zyKcI4VMsOwfTm45geFE9yExRG/view?usp=sharing
Improvements and Issues	15 min	https://drive.google.com/file/d/13WYm24_20mZKJoyY_UOQ40xU_v_FF_0G/view?usp=sharing

DATE : Mar 3, 2025

MoM-2 :

Work Progress :

- Basic frontend is ready and is easy-to-use.
- User details are being stored on an online server, MongoDB Atlas, which is running 24/7, which implies that a user can sign up at any time of his convenience and his data will be updated on the MongoDB Atlas server.
- The password of the user is hashed and is not visible on the server. Thus, security of user data is taken care of.
- The software can respond to hundreds of concurrent requests in <=10 seconds, thus, latency is avoided. This is achieved by setting the appropriate workers (gevent) for our software, which is best suited for I/O operations, just fit for our application.

Improvements needed and Issues faced :

- Frontend needs to be refined and made more user-friendly so that users are able to use the software easily
- Since, the website needs to remember its users and movie recommendation depends on the previous watch histories of users, therefore, it needs to have a separate page for each user. Thus, it needs to remember the login sessions of all its users.

MEETING 3 :

Participants : Dhruv Mishra, Tavishi Srivastava, Shreekar Mane, Ripu Daman Singh, Sanyam Kabra, Ekta Saini

Agenda

Topic	Time	File
Improvements made and Issues solved	30 min	https://drive.google.com/file/d/1I6xSZCY1giao1MM0WeMg0kIHrEL3rrgd/view?usp=sharing
Discussions regarding addition of more functionalities	10 min	https://drive.google.com/file/d/1JxY5huS9fkRBKXZ_oyX0UnkL-dzZh3wO/view?usp=sharing

DATE : Mar 11, 2025

MoM-3 :

Work Progress :

- Front-end was made better than the previous one (mainly, colour coding changed).
- The website now remembers a user once he/she has logged into the system, until they log out manually.
- This was achieved by using the flask_login library, which provides functions such as LoginManager(), to load user (using user_loader) remember user (using user_loader), and display the webpages only to authorized users (using request_loader).
- Unauthorized users (who have not logged in) would be detected and an error message "Unauthorized access" would be displayed (using unauthorized_handler).

Which functionalities to add?

- Speech to emotion detection should also be incorporated so as to recommend movies to the user based on their emotions.
- UI needs to be improved (with a colour coding and font which makes the website more attractive from the point of view of movie watchers).

MEETING 4 :

Participants : Dhruv Mishra, Tavishi Srivastava, Shreekar Mane, Ripu Daman Singh, Sanyam Kabra, Ekta Saini

Agenda

Topic	Time	File
Work Progress Update	1 hr	https://drive.google.com/file/d/1asPw6eSdFxySoloyV1BJaF1hECBCuCsn/view?usp=sharing , To predict emotion: https://github.com/TavishiS/Emotion2Movies/blob/main/Project/speech2emotion.py , To process audio: https://github.com/TavishiS/Emotion2Movies/blob/main/Project/process_audio.py Embedding model: https://github.com/TavishiS/Emotion2Movies/tree/main/learning/ai_model

DATE : Mar 18, 2025

MoM-4 :

Work Progress :

- Speech to emotion and speech to text functionality added and movie recommendation happening on this basis.

- The above models help in enhancing the user prompt as now, emotions and text both are used for movie recommendation. However, the prompt would still use the Deepseek AI to process the prompt and give relevant output to the user.
- Use of an Embedding model (text to features) : bge-large-en (which would take a movie description as input, process it, and produce a feature vector : 1024 x 1, which is known as the embedding of that movie) is proposed.
- We would also use the Movie to Emotion embedding model : SamLowe/roberta-base-go_emotions (which would produce a vector of dimension 27 x 1, consisting of 27 emotions, each assigned a block in the vector, where the block would contain the probability of the movie containing that emotion. The sum of all these probabilities = 1 (softmax)).
- The third is the Movie to Genre vector (which is a one-hot vector). Each movie would have a genre embedding. The genre of the movie would be set to 1 and the rest of the genres would be set to 0.
- The above three embedding models would help in deciding which movie would be the best recommendation based on the user's prompt.
- This model is fully-functional and is producing results. However, we need to integrate it with the main project.
