

TSWR21 Knowledge Representation and the Semantic Web

Course Project Contribution Agreement

Project Title: **Movie Recommendation System**

Team Member:

- Punnose Kozhuppakalam Thomas
- Deepa Krishnan
- Loshma Latha Babu
- Sukhveer Kaur
- Princy Bindhu

Description of Contributions:

1. Design and Development of the Application System

- Task/Responsibility 1:

Data and Ontology Selection

Tasks:

- a. Finding appropriate ontology.
- b. Finding data to populate ontology.
- c. Matching each value from data to ontology.

Contributor: Princy Bindhu, Sukhveer Kaur.

- Task/Responsibility 2:

Data Conversion and Ontology population

Tasks:

- a. Loading data from different datasets.
- b. Merging data from dataset.
- c. Connecting ontology predicates to data.
- d. Writing data to RDF file using reference ontology structure.

Contributor: Punnose Kozhuppakalam Thomas, Princy Bindhu, Sukhveer Kaur

- Task/Responsibility 3:

Query Creations

Tasks:

- a. Query to fetch movie details by name.
- b. Query to fetch movie details by same genre.
- c. Query to fetch movie details by same artists.
- d. Query to fetch movie details by same director.

Contributor: Deepa Krishnan, Loshma Latha Babu

- Task/Responsibility 4:

Backend Creation :

Tasks:

- a. Instantiate instance of FastAPI.
- b. Set parameters such as dynamic IP address, static port and CORS policy.
- c. Set logging file settings.
- d. Write api endpoints under the FastAPI instance for all api calls.
- e. Write api endpoint to return html and css file to front-end.
- f. Write controller functions for api endpoints to invoke.
- g. Test controller functions with created queries.
- h. Host api endpoint on Railway.

Contributor: Punnose Kozhuppakalam Thomas.

- Task/Responsibility 4:

Front-end Creation :

Tasks:

- a. Write html and css files for Login Page.
- b. Write html and css files for MovieDetails page.
- c. Connect CSS files to their related HTML files.
- d. Write dynamic api calls in each files to perform search and fetch movies.
- e. Update Railway hosting with front-end.

Contributor: Deepa Krishnan, Loshma Latha Babu.

2. Writing the Project Report:

Sections	Contributor
Introduction	Sukhveer Kaur
Application Description	Deepa Krishnan, Loshma Latha Babu
Discussion	Punnose Kozhuppakalam Thomas
Conclusion	Princy Bindhu

Project Meeting Log

Id	Data&Time	Topics	Participants
1	02/12/2024	Projection topic selection	All members
2	04/12/2024	Choose which technologies are used in the project	All members
3	19/12/2024	Data and ontology selection	All members
4	21/12/2024	Review of Data and Ontology selection	All members
5	22/12/2024	Data conversion and ontology population	All members
6	23/12/2024	Data conversion and ontology population	All members
7	26/12/2024	Review of data conversion and ontology population.	All members
8	27/12/2024	Query creations	All members
9	28/12/2024	Query creations	All members
10	28/12/2024	Backend and Query Creations	All members
11	29/12/2024	Backend and Query Creations	All members
13	31/12/2024	Front end and Backend	All members

14	02/12/2025	Front end and Backend	All members
15	7/01/2025	API integration	All members
16	08/01/2025	API integration, PPT discussion	All members
17	09/01/2025	Review of final Project	All members

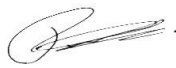
Acknowledgment of Accountability:


By signing this contract, each undersigned student acknowledges and agrees to the following:


- **Balanced Contributions:** All students contribute fairly and equitably to the project. We have completed our assigned tasks on time and have actively contributed to the project.
- **Project Meetings:** Each student attended and participated in project meetings. We have documented all meetings attended and tracked the action items assigned to us.
- **Timeliness and Integrity:** We confirm that we have met all deadlines for our tasks, contributed fairly to the project, and ensured all work is our own. We understand that failure to meet these expectations may affect our individual grades or the overall project grade.


Signatures:


By signing below, we confirm that the information provided in this contract is accurate and that each of us has contributed as described above. This agreement is made in good faith to ensure accountability for each team member's role in the project.

- Student Name : Punnose Kozhuppakalam Thomas , 

- Student Name : Deepa Krishnan , 

- Student Name : Loshma Latha Babu 

- Student Name : Sukhveer Kaur 

- Student Name : Princy Bindhu 

Date: 12/01/2025