FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY

BITP 3123
DISTRIBUTED APPLICATION DEVELOPMENT

Project : Movie Application

Prepared By:

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1. How many apps involved
   We created two application which is:
   - Movie Catalog Application
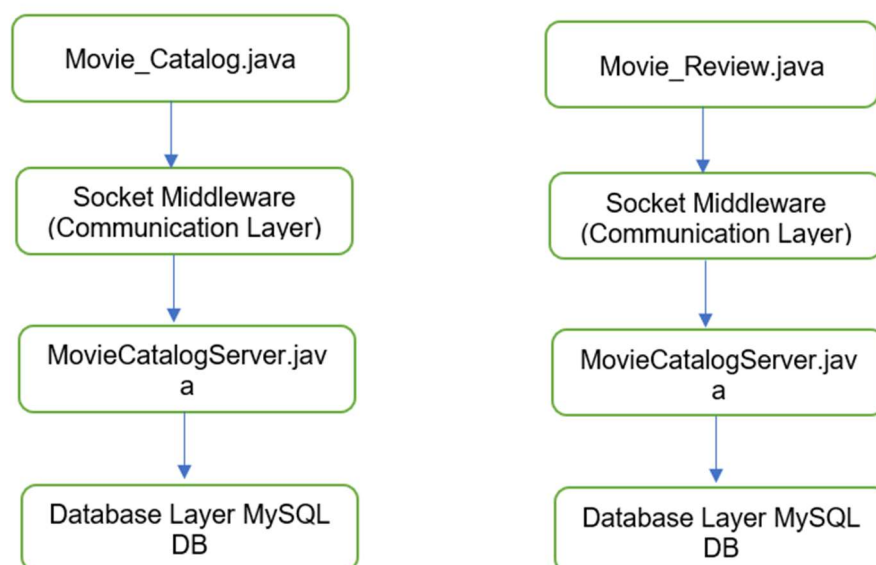   - Movie Review Application

2. Brief Explanation of each apps
   - Movie Catalog Application
     • Purpose : To display a list of movies and   movies and allow users to delete   movies from the list
     • Main Features : Display movie list and delete a selected movie from the list

   - Movie Review Application
     • Purpose : To display reviews for selected movies
     • Main Features : Display a list of movies and show reviews for a selected movie

3. Architecture / Layer Diagram for each app including the middleware.

4. List of URL Endpoints for Middleware (Socket)
   MovieCatalogServer.
   - EndPoint localhost : 12345
   - Message : GET_MOVIES – Retrieve the list of movies.
   - Message : DELETE_MOVIE <movie_name> - Delete a specific movie by name.

   MovieReviewServer:
   - EndPoint localhost : 12345
   - Message : GET_MOVIES – Retrieve review for a specific movie by name.

5. Function / Features in the Middleware
   MovieCatalogServer:
   - Function: getMovies()
   - Description: Retrieves the list of movies from the database.
   - Function: deleteMovie(String movieName)
   - Description: Deletes the specified movie from the database.

   MovieReviewServer:

   - Function: getReviewsForMovie(String movieName)
   - Description: Retrieves reviews for the specified movie from the database.

6. The Database and Tables involved in the Projects
   - Database Name : movie_application

   a) Table movie

movieID INT	Primary Key	Auto-increment
movieName	VARCHAR(100)	Title of the movie
movieDirector	VARCHAR(100)	Director of the movie
movieGenre	VARCHAR(100)	Genre of the movie
movieRelease	INT	Year of release

   b) Table review

reviewID INT	Primary Key	Auto-increment
movieID INT	Foreign Key	Referencing table movies
reviewerName	VARCHAR(100)	Name of the reviewer
movieRating	INT	Rating given by the reviewer

| reviewText | VARCHAR(10000) | Comment text |