Movie Renting Web App API Contract

1. **Introduction**

This API contract (“Contract”) outlines the terms and conditions for using the Movie Renting Web App API (“API”). This agreement is entered into by and between the developer (“Developer”) and the user (“User”). The contract governs the usage, expectations, and responsibilities related to the API.

1. **API Description**

The Movie Renting API provides endpoints for managing movie data. Users can perform operations such as retrieving a list of movies, adding a new movie, updating an existing movie, retrieving a specific movie by ID, and deleting a movie.

1. **Data Model**

The API utilizes a JSON file (movies. Json) as a persistent data store for movie information.

1. Endpoints

**4.1 GET /movies**

Description: Retrieve a list of all movies.  
Response: Returns a JSON object containing a list of movies.

**4.2 GET /movies/{movie\_id}**

* Description: Retrieve details of a specific movie by its ID.
* Parameters:
* {movie\_id}: Integer, the unique identifier of the movie.
* Response: Returns a JSON object containing movie details.

**4.3 POST /movies**

* Description: Add a new movie to the database.
* Request:
* JSON object with movie details (e.g., name, year, genre, rating).
* Response: Returns a JSON object confirming the addition of the new movie.

**4.4 PUT /movies/{movie\_id}**

* Description: Update details of a specific movie by its ID.  
  -Parameters:
* {movie\_id}: Integer, the unique identifier of the movie.
* Request:
* JSON object with updated movie details.
* Response: Returns a JSON object confirming the update of the movie.

**4.5 DELETE /movies/{movie\_id}**

* Description: Delete a specific movie by its ID.
* Parameters:
* {movie\_id}: Integer, the unique identifier of the movie.  
  Response: Returns an empty response with a status code of 204, indicating a successful deletion.

1. Data Persistence

Changes made through API endpoints are persistently stored in the movies.json file.

1. **Usage Guidelines**

* The API is provided as-is, and the Developer makes no guarantees regarding its availability or functionality.
* The User is responsible for handling errors gracefully and implementing appropriate error handling mechanisms.
* Secure and authorized access to the API is the User’s responsibility.

1. **Modifications**

The Developer reserves the right to modify or update this Contract and the API functionality. Users will be notified of any significant changes.

1. **Contact Information**

For inquiries or support, contact the Developer at [developer@example.com].

By using the API, the User agrees to adhere to the terms and conditions outlined in this Contract.