**REST API Report**

**Project Overview**

The REST API implementation of the Movie Rating project is built using ASP.NET Core and Entity Framework. The system supports user authentication, movie rating functionalities, and advanced querying capabilities.

**Models**

* The project contains multiple models, including User, Movie, and Rating.
* Relationships between models are implemented, such as:
  + User and Rating (one-to-many).
  + Movie and Rating (one-to-many).

**Controllers**

* Controllers provide full CRUD functionality:
  + Users can create, update, and delete their accounts.
  + Movies can be added, updated, and deleted by admins.
  + Ratings can be created, updated, and deleted by authenticated users.
* Additional custom operations include retrieving top-rated movies and filtering by genres.

**RESTful Design**

* HTTP methods are used appropriately:
  + GET for retrieving movies and ratings.
  + POST for adding movies or ratings.
  + PUT for updating resources.
  + DELETE for removing movies or ratings.
* The API returns proper HTTP status codes for success and error scenarios (e.g., 200 OK, 404 Not Found, 401 Unauthorized).

**ORM**

* Entity Framework is used for database operations.
* Advanced functionalities include:
  + Aggregation queries, such as calculating the average rating for a movie.

**Complexity**

* The API implements robust functionality, allowing full movie rating management.
* User authentication and role-based access control ensure secure interactions.
* Ready for real-world deployment with Swagger/OpenAPI documentation.