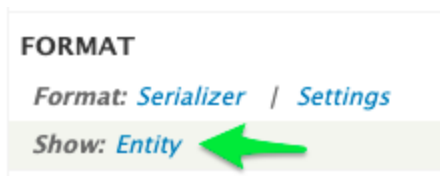


Drupal 8+ Module Development Challenge #5

For this challenge, we would like you to create a custom module. Feel free to consult with any Drupal documentation or articles on the web to complete the challenge. In your custom module:

1. Create a custom entity called **"movie"**. (Hint: feel free to use Drush)
 - a. You will need to store **title** and **release_date**.
 - b. Create a taxonomy vocabulary named "Genre" with the following terms: Comedy, Drama, and Action.
 - c. Add a **genre** field to the **movie** entity that is a reference to the Genre vocabulary.
2. Add validation to the movie entity's add and edit forms so that the **release_date** field is required and that it cannot be in the future. Use JavaScript to highlight the **release_date** field in red if the inputted date is in the future.
3. Using Views, create a REST export of all the movie entities and show using the "Entity" format:



4. Override the Normalizer for Movie entities so that the JSON output is like so:

```
{
  "id": 1,
  "title": "Training Day",
  "release_date": "2001-10-05",
  "genre": "Action"
}
```

5. **(Bonus)** Using CSS, adjust the add/edit forms so that the **title**, **release_date**, and **genre** fields are side by side. E.g.:

Title <input type="text"/> The movie title	Release Date * <input type="text" value="yyyy-mm-dd"/> Movie release date	Genre <input type="text"/>
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Skills We're Assessing For

- Drupal 8+ module development
 - Custom entity experience
 - Overriding forms
 - Normalizer customization
 - Knowledge of services and dependency injection
 - Custom javascript in Drupal's JS Framework
- Clean code
- Best practice and standards used