

## Backend Methods Description:

### 1. `getPopularMovies` (`MovieController`):

- This method handles GET requests to fetch popular movies.
- It calls the `getPopularMovies` method in the `MovieService` to fetch data from the TMDB API.
- Returns the fetched movie data as a response.

### 2. `getMovieDetails` (`MovieController`):

- This method handles GET requests to fetch details of a specific movie.
- It calls the `getMovieDetails` method in the `MovieService` to fetch details from the TMDB API.
- Returns the fetched movie details as a response.

### 3. `createComment` (`MovieController`):

- This method handles POST requests to create a new comment for a movie.
- It calls the `createComment` method in the `CommentService` to create a new comment entity.
- Returns the created comment data as a response.

### 4. `getPopularMovies` (`MovieService`):

- This method interacts with the TMDB API to fetch data for popular movies.
- Returns the fetched movie data based on the current page and items per page.

### 5. `getMovieDetails` (`MovieService`):

- This method interacts with the TMDB API to fetch details of a specific movie.
- Returns the fetched movie details.

### 6. `createComment` (`CommentService`):

- This method creates a new comment entity and associates it with a movie and author.
- Saves the created comment entity in the database.
- Returns the created comment entity.

## Frontend Methods Description:

### 1. `getPopularMovies` (`MovieService`):

- This method makes an HTTP GET request to the backend endpoint for fetching popular movies with pagination support.
- Returns an observable containing the fetched movie data based on the current page and items per page.

## 2. `getMovieDetails` (`MovieService`):

- This method makes an HTTP GET request to the backend endpoint for fetching details of a specific movie.
- Returns an observable containing the fetched movie details.

## 3. `ngOnInit` (`PopularComponent`):

- This lifecycle hook method is called when the popular component is initialized.
- Calls the `getPopularMovies` method in the `MovieService` to fetch popular movies with pagination support.
- Subscribes to the observable returned by `getPopularMovies` to update the UI with the fetched data.

## 4. `nextPage` (`PopularComponent`):

- This method is called when the "Next" button is clicked to navigate to the next page of popular movies.
- Increments the current page index and calls the `getPopularMovies` method to fetch movies for the next page.

## 5. `previousPage` (`PopularComponent`):

- This method is called when the "Previous" button is clicked to navigate to the previous page of popular movies.
- Decrements the current page index (if greater than 1) and calls the `getPopularMovies` method to fetch movies for the previous page.

## Interactions:

- In the frontend, components trigger service methods to make HTTP requests to the backend.
- Backend controllers handle these requests by calling corresponding service methods.
- Service methods in the backend interact with external APIs (TMDB API) or perform database operations.
- The response data from the backend is then returned to the frontend, where it is used to update the UI.