**Task 4** **:** **Verify that the outputs of the building blocks match the specifications.**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Project Name** | **Movies Application** | | **Description** | **Web API for Managing Movie Collections** | | |  |  | | --- | --- | | **Test Case Author:** | **Ammar Ahmed** | | **Test Case Code:** | **0522011** | | **Test Case Reviewer:** | **Mostafa** | |

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| **Test Case ID** | **Test Case**  **Description** | **Test Steps** | **Input Data** | **Expected Results** | **Actual Results** | **Execution Status** | **Test Environment** | **Bug Priority** |
| **1** | Validate api [GET]'/api/movies' retrieves all movies with their associated directors and categories with natinality of director. | Launch Application  Open Swagger  Access Movie Controller  Execute GET Method | **software** | The API retrieves all movies with their associated directors and categories with natinality of director. | **As Expected** | **pass** | **Swagger** | **High** |
| **2** | Validate api [GET'/api/movies/{id}]' responce with movie by spacific valid (exist) Id with it's associated directors and categories with natinality of director. | Launch Application  Open Swagger  Access Movie Controller  Execute GET{id} Method | **Id = 1** | API response with movie by specific valid (exist) Id with it's associated directors and categories with natinality of director. | **As Expected** | **pass** | **Swagger** | **High** |
| **3** | Validate api [GET]'/api/movies/{id}' response with NotFound status (404) if entered Invalid (not exist) id | Launch Application  Open Swagger  Access Movie Controller  Execute GET{id} Method | **Id = 50** | API response with NotFound status (404) if entered Invalid (not exist) id | **As Expected** | **pass** | **Swagger** | **High** |
| **4** | **Validate application didn’t accept empty required fields [title]** | Launch Application  Open Swagger  Access Movie Controller  Execute POST{MovieDTO} Method | **{**  **"title": "",**  **"releaseYear": "2024-11-20T09:42:03.289Z",**  **"category": {**  **"name": "Comidy"**  **},**  **"directors": [**  **{**  **"name": "Director1",**  **"contact": "+202222222222",**  **"email": "director1@example.com",**  **"nationality": {**  **"name": "Lala-Land"**  **}**  **}**  **]**  **}** | **response with state code 400 (BadRequest) with message ‘The movieDTO field is required’** | **As Expected**  **"The Title field is required."** | **pass** | **Swagger** | **High** |
| **5** | **Validate application didn’t accept empty required field [Movie.releaseYear]** | Launch Application  Open Swagger  Access Movie Controller  Execute POST{MovieDTO} Method | **{**  **"title": "Hello World",**  **"releaseYear": "",**  **"category": {**  **"name": "Comidy"**  **},**  **"directors": [**  **{**  **"name": "Director1",**  **"contact": "+202222222222",**  **"email": "director1@example.com",**  **"nationality": {**  **"name": "Lala-Land"**  **}**  **}**  **]**  **}** | **response with state code 400 (BadRequest) with message ‘The movieDTO field is required’** | **As Expected** | **pass** | **Swagger** | **High** |
| **6** | **Validate application didn’t accept empty required field [Category.Name]** | Launch Application  Open Swagger  Access Movie Controller  Execute POST{MovieDTO} Method | **{**  **"title": "Hello World",**  **"releaseYear": "2024-11-20T09:42:03.289Z",**  **"category": {**  **"name": ""**  **},**  **"directors": [**  **{**  **"name": "Director1",**  **"contact": "+202222222222",**  **"email": "director1@example.com",**  **"nationality": {**  **"name": "Lala-Land"**  **}**  **}**  **]**  **}** | **response with state code 400 (BadRequest) with message ‘The movieDTO field is required’** | **As Expected** | **pass** | **Swagger** | **High** |
| **7** | **Validate application didn’t accept empty required field [Directory.Name]** | Launch Application  Open Swagger  Access Movie Controller  Execute POST{MovieDTO} Method | **{**  **"title": "Hello World",**  **"releaseYear": "2024-11-20T09:42:03.289Z",**  **"category": {**  **"name": "Comidy"**  **},**  **"directors": [**  **{**  **"name": "",**  **"contact": "+202222222222",**  **"email": "director1@example.com",**  **"nationality": {**  **"name": "Lala-Land"**  **}**  **}**  **]**  **}** | **response with state code 400 (BadRequest) with message ‘The movieDTO field is required’** | **As Expected** | **pass** | **Swagger** | **High** |
| **8** | check API didn’t accept empty Invalid field validation [**Directory.Email, => Email** **Directory.Contact => phone]** | Launch Application  Open Swagger  Access Movie Controller  Execute POST{MovieDTO} Method | **{**  **"title": "Hello World",**  **"releaseYear": "2024-11-20T09:42:03.289Z",**  **"category": {**  **"name": "Comidy"**  **},**  **"directors": [**  **{**  **"name": "Director1",**  **"contact": "+fd",**  **"email": "dfda",**  **"nationality": {**  **"name": "Lala-Land"**  **}**  **}**  **]**  **}** | **response with state code 400 (BadRequest) with message ‘The movieDTO field is required’** | **As Expected** | **pass** | **Swagger** | **High** |
| **9** | Validate application add **Movie** properties successfully with valid data input by MoviDTO | Launch Application  Open Swagger  Access Movie Controller  Execute POST{MovieDTO} Method | **{**  **"title": "Hello World",**  **"releaseYear": "2024-11-20T09:42:03.289Z",**  **"category": {**  **"name": "Comidy"**  **},**  **"directors": [**  **{**  **"name": "Director1",**  **"contact": "+202222222222",**  **"email": "director1@example.com",**  **"nationality": {**  **"name": "Lala-Land"**  **}**  **}**  **]**  **}** | **response with state code 204 (Created)** | **As Expected** | **pass** | **Swagger** | **High** |
| **10** | Check application add Movie to database assign it’s Navigation properties successfully with valid data input by MoviDTO | Launch Application  Open Swagger  Access Movie Controller  Execute POST{MovieDTO} Method  **Check database updated with new Movie in [movies, directors, categories, and nationalities] tables in database** | **{**  **"title": "Hello World",**  **"releaseYear": "2024-11-20T09:42:03.289Z",**  **"category": {**  **"name": "Comidy"**  **},**  **"directors": [**  **{**  **"name": "Director1",**  **"contact": "+202222222222",**  **"email": "director1@example.com",**  **"nationality": {**  **"name": "Lala-Land"**  **}**  **}**  **]**  **}** | **response with state code 204 (Created) ,**  **database updated with new Movie in [movies, directors, categories, and nationalities] tables in database** | **As Expected** | **pass** | **Swagger** | **High** |
| **11** | Validate application don’t **reinsert navigation properties if it already exist** | Launch Application  Open Swagger  Access Movie Controller  Execute POST{MovieDTO} Method  **Check database updated with new Movie only in many-to-many table ‘MovieDirectory’ and didn’t insert new directory in directory table** | **{**  **"title": "Movie2",**  **"releaseYear": "2024-11-20T09:42:03.289Z",**  **"category": {**  **"name": "Comidy"**  **},**  **"directors": [**  **{**  **"name": "Director1",**  **"contact": "+202222222222",**  **"email": "director1@example.com",**  **"nationality": {**  **"name": "Lala-Land"**  **}**  **}**  **]**  **}** | **response with state code 201 (Created) ,**  **database updated with new Movie only in many-to-many table ‘MovieDirectory’ and didn’t insert new directory in directory table** | **As Expected** | **pass** | **Swagger** | **High** |
| **12** | **Check post Category add Category to database successfully** | Launch Application  Open Swagger  Access **Categories**  Controller  Execute POST{CategotyDTO} Method  **Check database updated with new Category Category table** | **{**  **"name": "Action"**  **}** | **response with state code 204 (Created),**  **database updated with new Category Category table** | **As expected** | **Pass** | **Swagger** | **High** |
| **13** | Check **put** Category update Category in database with specific **id** successfully | Launch Application  Open Swagger  Access **Categories**  Controller  Execute PUT{ID, CategotyDTO} Method  **Check database updated with updated Category row in Category table** | **Id = 4**  **{**  **"name": "Egyptian Traditional"**  **}** | **response with state code 200 (Ok),**  **database updated with new Category Category table** | **As expected** | **Pass** | **Swagger** | **High** |
| **14** | Check **post** Director update Directors in database | Launch Application  Open Swagger  Access **Director**  Controller  Execute POST{ID, DirectorsDTO} Method  **Check database updated with new Director row in Director**  **table** | **{**  **"name": "A7med Sa3d",**  **"contact": "+20151111111",**  **"email": "sa3d@example.com",**  **"nationality": {**  **"name": "Egypt"**  **}**  **}** | **response with state code 204**  **(Created),**  **database updated with new Director table** | **As expected** | **Pass** | **Swagger** | High |
|  | put |  |  |  |  |  |  |  |
| **15** | Check **put** Director update Director in database with specific **id** successfully | Launch Application  Open Swagger  Access Director Controller  Execute PUT{ID, Director DTO} Method  **Check database updated with updated**  Director **row in**  Director **table** | **Id = 1**  **{**  **"name": "string",**  **"contact": "string",**  **"email": "user@example.com",**  **"nationality": {**  **"name": "string"**  **}**  **}** | **response with state code 200 (Ok),**  **database updated with new**  Director **table** | **As expected** | **Pass** | **Swagger** | High |
| **16** | Check **Delete** **Director** Deleted from database with specific **id** successfully | Launch Application  Open Swagger  Access Director Controller  Execute Delete{ID} Method  **Check database updated with Delete**  Director **row in**  Directors **table** | **Id = 11** | **response with state code 200 (Ok),**  **database updated with new**  Director **table** | **As expected** | **Pass** | **Swagger** | High |
| **17** | Check **post** method add new Nationality in database | Launch Application  Open Swagger  Access Director Controller  Execute **POST**{NationalityDTO} Method  **Check database updated with new** Nationality **row in**  Nationality **table** | **{**  **"name": "string"**  **}** | **response with state code 200 (Ok),**  **database updated with new**  Director **table** | **As expected** | **Pass** | **Swagger** | High |
| **18** | Check **Delete** Nationality Deleted from database with specific **id** successfully | Launch Application  Open Swagger  Access Nationality Controller  Execute Delete{ID} Method  **Check database updated with Delete**  Nationality **row in**  Nationality **table** | **Id = 2** | **response with state code 200 (Ok),**  **database updated with new**  Nationality **table** | **As expected** | **Pass** | **Swagger** | High |
| **19** | Check api response with ‘NotFound’ status if input **id** do’ not exist in | Launch Application  Open Swagger  Access **any** Controller  Execute Delete{ID} or put Method  input **invalid** id number | **Id = 50** | **response with state code 404 (NotFound),** | **As expected** | **Pass** | **Swagger** | High |
| **20** |  |  |  |  |  |  |  |  |
| **21** |  |  |  |  |  |  |  |  |
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