**SERVER**

# 

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This module has the following files:

1. documentation.docx

# INTRODUCTION

In this module, you are asked to create an online learning application called “**WebTech Indonesia**” where in the application a user can register and complete their course to get a certificate. The detailed description and tools that you can use will be described below.

# DESCRIPTION OF PROJECTS AND TASKS

This module is divided into two phases. In the first phase, you will create a REST API. In the second phase, you will build a frontend application. You must use the provided frameworks:

* Laravel (v11.x)
* React (v18.x with react-router-dom and axios)

# 

# PHASE 1: REST API

## Authentication

Authentication serves as the gateway for users to access all courses within the application. There are three endpoints: register, login, and logout. **Sanctum** should be used to create tokens. The generated token will be used to access all available endpoints. The logout function should only deactivate the token from the specific device making the request.

### A1: Register

**POST** /register

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |

**Body (JSON)**

|  |  |
| --- | --- |
| name | required. |
| username | required, min 3 chars, unique, accept only alphanumeric, dot “.” and underscore “\_”. |
| password | required, min 6 chars. |
| email | required, email |
| date\_of\_birth | required, date |
| phone\_number | required, 08 as first number, min 10 chars |
| Profile\_picture | Required, file, mimes in jpeg, jpg, png |

**A1a: Response Success**

|  |  |
| --- | --- |
| Status Code | 201 |
| Body | {  "status": "success",  "message": "Register successfully",  "data": {  "name": "Jamaludin",  "username": "john.doe",  "email": "fazriloke18@gmail.co",  "date\_of\_birth": "2007-03-18T00:00:00.000000Z",  "phone\_number": "08985245896",  "profile\_picture": "profile\_picture/1fLLZcLfQKrUxi47XMrWNY5mQ7anUmnrICA8KLkQ.png",  "role": "user",  "id": 3,  "token": "4|KIhpV58aIP6cdr73pYsp7dm22fmxXGLIBUSyArxNdf08e9b5"  }  } |

**A1b: Response Invalid Field**

|  |  |
| --- | --- |
| Status Code | 400 |
| Body | {  "status": "invalid",  "message": "Invalid field",  "errors": {  "name": [  "The name field is required."  ],  "username": [  "The username field is required."  ],  "email": [  "The email has already been taken."  ]  }  } |

### A2: Login

**POST** /login

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |

**Body (JSON)**

|  |  |
| --- | --- |
| username | string. |
| password | string. |

**A2a: Response Success**

|  |  |
| --- | --- |
| Status Code | 200 |
| Body | {  "status": "success",  "message": "Login successfully",  "data": {  "id": 3,  "name": "Jamaludin",  "username": "john.doe",  "email": "fazriloke18@gmail.co",  "date\_of\_birth": "2007-03-18T00:00:00.000000Z",  "phone\_number": "08985245896",  "profile\_picture": "profile\_picture/1fLLZcLfQKrUxi47XMrWNY5mQ7anUmnrICA8KLkQ.png",  "role": "user",  "token": "21|ORr6FXpcir8L34ACHwQdtii7yAHfY60GKNQdVxBx4e72e092"  }  } |

**A2b: Response Invalid Credentials**

|  |  |
| --- | --- |
| Status Code | 400 |
| Body | {  "status": "invalid",  "message": "Username or password incorrect"  } |

### A3: Logout

**GET** /logout

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |
| Authorization | Bearer <TOKEN> |

**A3a: Response Success**

|  |  |
| --- | --- |
| Status Code | 204 |
| Body |  |

**A3b: Response Invalid Token**

|  |  |
| --- | --- |
| Status Code | 401 |
| Body | {  "status": "invalid",  "message": "Invalid token."  } |

## Blog

### B1: Add Blog

**POST** /blog

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |
| Authorization | Bearer <TOKEN> |

**Body (JSON)**

|  |  |
| --- | --- |
| image | Required, file, mimes in jpeg, jpg, png |
| title | Required, string |
| description | Required, string |
| tags | Required, string, separate by koma (,) |

**B1a: Response Success**

|  |  |
| --- | --- |
| Status Code | 201 |
| Body | {  "status": "success",  "message": "Success create blog",  "data": {  "image": "blog\_image/t9IRPPnSB89z0NrvHjrKdBJBqLLiMd2EFPpmOl79.png",  "title": "Test Title",  "description": "Test Description",  "views": 0,  "author\_id": 2,  "updated\_at": "2024-08-30T12:51:13.000000Z",  "created\_at": "2024-08-30T12:51:13.000000Z",  "id": 2  }  } |

**B1b: Response Invalid Field**

|  |  |
| --- | --- |
| Status Code | 400 |
| Body | {  "status": "invalid",  "message": "Invalid field",  "errors": {  "image": [  "The image field is required."  ],  "title": [  "The title field is required."  ]  }  } |

**B1c: Response Forbidden**

|  |  |
| --- | --- |
| Status Code | 403 |
| Body | {  "status": "forbidden",  "message": "Forbidden access"  } |

**B1d: Response Invalid Token**

|  |  |
| --- | --- |
| Status Code | 401 |
| Body | {  "status": "invalid",  "message": "Invalid token."  } |

### B2: Edit Blog

**PUT** /blog/:blog\_id

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |
| Authorization | Bearer <TOKEN> |

**Body (JSON)**

|  |  |
| --- | --- |
| image | nullable, file, mimes in jpeg, jpg, png |
| title | nullable, string |
| description | nullable, string |
| tags | nullabe, string, separate by koma (,) |

**B2a: Response Success**

|  |  |
| --- | --- |
| Status Code | 200 |
| Body | {  "status": "success",  "message": "Success update blog",  "data": {  "id": 1,  "image": "blog\_image/Y9MOHAf3WiqU08Ah0j627jmmyFxYtzQauEUIcMc2.png",  "title": "test",  "description": "Test Description",  "author\_id": 2,  "views": 0,  "deleted\_at": null,  "created\_at": "2024-08-30T12:48:30.000000Z",  "updated\_at": "2024-08-30T12:49:22.000000Z"  }  } |

**B2b: Response Invalid Field**

|  |  |
| --- | --- |
| Status Code | 400 |
| Body | {  "status": "invalid",  "message": "Invalid field",  "errors": {  "title": [  "The title field must be a string."  ]  }  } |

**B2c: Response Not Found**

|  |  |
| --- | --- |
| Status Code | 404 |
| Body | {  "status": "not-found",  "message": "Blog not found"  } |

**B2d: Response Forbidden**

|  |  |
| --- | --- |
| Status Code | 403 |
| Body | {  "status": "forbidden",  "message": "Forbidden access"  } |

**B2e: Response Invalid Token**

|  |  |
| --- | --- |
| Status Code | 401 |
| Body | {  "status": "invalid",  "message": "Invalid token."  } |

### B3: Delete Blog

**DELETE** /blog/:blog\_id

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |
| Authorization | Bearer <TOKEN> |

**B3a: Response Success**

|  |  |
| --- | --- |
| Status Code | 204 |
| Body |  |

**B3b: Response Not Found**

|  |  |
| --- | --- |
| Status Code | 404 |
| Body | {  "status": "not-found",  "message": "Blog not found"  } |

**B3c: Response Forbidden**

|  |  |
| --- | --- |
| Status Code | 403 |
| Body | {  "status": "forbidden",  "message": "Forbidden access"  } |

**B3d: Response Invalid Token**

|  |  |
| --- | --- |
| Status Code | 401 |
| Body | {  "status": "invalid",  "message": "Invalid token."  } |

### B4: Get Blogs

**GET** /blog

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |
| Authorization | Bearer <TOKEN> |

**B4a: Response Success**

|  |  |
| --- | --- |
| Status Code | 200 |
| Body | {  "status": "success",  "message": "Success get all blog",  "data": [  {  "id": 2,  "image": "blog\_image/t9IRPPnSB89z0NrvHjrKdBJBqLLiMd2EFPpmOl79.png",  "title": "Test Title",  "description": "Test Description",  "author\_id": 2,  "views": 0,  "deleted\_at": null,  "created\_at": "2024-08-30T12:51:13.000000Z",  "updated\_at": "2024-08-30T12:51:13.000000Z",  "author": {  "id": 2,  "name": "Admin",  "username": "admin1",  "email": "admin@admin.com",  "date\_of\_birth": "2007-03-18T00:00:00.000000Z",  "phone\_number": "08985245896",  "profile\_picture": null,  "role": "admin"  },  "comments\_count": 1  },  ...  ]  } |

**B4b: Response Invalid Token**

|  |  |
| --- | --- |
| Status Code | 401 |
| Body | {  "status": "invalid",  "message": "Invalid token."  } |

### B5: Get Blog Details

**GET** /blog/:blog\_id

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |
| Authorization | Bearer <TOKEN> |

**B5a: Response Success**

|  |  |
| --- | --- |
| Status Code | 200 |
| Body | {  "status": "success",  "message": "Success get all blog",  "data": {  "id": 3,  "image": "blog\_image/R4Z4HdADOMZVHaohIGhyntq15drd3kaC5G8FxRet.png",  "title": "Test Title",  "description": "Test Description",  "author\_id": 2,  "views": 1,  "deleted\_at": null,  "created\_at": "2024-08-30T14:12:00.000000Z",  "updated\_at": "2024-08-30T14:16:43.000000Z",  "author": {  "id": 2,  "name": "Admin",  "username": "admin1",  "email": "admin@admin.com",  "date\_of\_birth": "2007-03-18T00:00:00.000000Z",  "phone\_number": "08985245896",  "profile\_picture": null,  "role": "admin"  },  "tags": [  {  "id": 5,  "blog\_id": 3,  "name": "modern",  "created\_at": "2024-08-30T14:12:00.000000Z",  "updated\_at": "2024-08-30T14:12:00.000000Z"  },  {  "id": 6,  "blog\_id": 3,  "name": "romance",  "created\_at": "2024-08-30T14:12:00.000000Z",  "updated\_at": "2024-08-30T14:12:00.000000Z"  }  ],  "comments": [],  "comments\_count": 0  }  } |

**B5b: Response Invalid Token**

|  |  |
| --- | --- |
| Status Code | 401 |
| Body | {  "status": "invalid",  "message": "Invalid token."  } |

## Blog Comment

### C1: Add Blog Comment

**POST** /blog/:blog\_id/comment

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |
| Authorization | Bearer <TOKEN> |

**Body (JSON)**

|  |  |
| --- | --- |
| name | Required, string |
| email | Required, email |
| subject | Required, string |
| comment | Required, string |
| captcha | Required, answer of captcha |

**C1a: Response Success**

|  |  |
| --- | --- |
| Status Code | 201 |
| Body | {  "status": "success",  "message": "Success post comment"  } |

**C1b: Response Invalid Field**

|  |  |
| --- | --- |
| Status Code | 400 |
| Body | {  "status": "invalid",  "message": "Invalid field",  "errors": {  "name": [  "The name field is required."  ],  "captcha": [  "Captcha is invalid."  ]  }  } |

**C1c: Response Invalid Token**

|  |  |
| --- | --- |
| Status Code | 401 |
| Body | {  "status": "invalid",  "message": "Invalid token."  } |

### C2: Edit Comment

**PUT** /blog/:blog\_id/comment/:comment\_id

**Request Headers**

|  |  |
| --- | --- |
| Accept | application/json |
| Authorization | Bearer <TOKEN> |

**Body (JSON)**

|  |  |
| --- | --- |
| name | nullable, string |
| email | nullable, email |
| subject | nullable, string |
| comment | nullable, string |
| captcha | required, answer of captcha |

**C2a: Response Success**

|  |  |
| --- | --- |
| Status Code | 200 |
| Body | {  "status": "success",  "message": "Success post comment"  } |

**C2b: Response Invalid Field**

|  |  |
| --- | --- |
| Status Code | 400 |
| Body | {  "status": "invalid",  "message": "Invalid field",  "errors": {  "name": [  "The name field must be a string."  ],  "captcha": [  "Captcha is invalid."  ]  } |

**C2c: Blog Not Found**

|  |  |
| --- | --- |
| Status Code | 404 |
| Body | {  "status": "not-found",  "message": "Blog not found"  } |

**C2d: Comment Not Found**

|  |  |
| --- | --- |
| Status Code | 404 |
| Body | {  "status": "not-found",  "message": "Comment not found"  } |

**C2e: Response Invalid Token**

|  |  |
| --- | --- |
| Status Code | 401 |
| Body | {  "status": "invalid",  "message": "Invalid token."  } |

## Captcha

### D1: Make Captcha

**GET** /captcha

**D1a: Response Success**

|  |  |
| --- | --- |
| Status Code | 201 |
| Body | {  "status": "success",  "message": "Make captcha successfully",  "data": {  "id": 10,  "question": "13+13"  }  } |

### D2: Validate captcha

**PUT** /captcha/:captcha\_id

**C2a: Response Success**

|  |  |
| --- | --- |
| Status Code | 200 |
| Body | {  "status": "success",  "message": "Captcha validated."  } |

**C2b: Response Invalid**

|  |  |
| --- | --- |
| Status Code | 400 |
| Body | {  "status": "failed",  "message": "Captcha invalid"  } |