Blog App REST API Design Documentation

Let Base url : https://api.blogapp.com/v1

Authentication

All authenticated endpoints needed Bearer token in Authorization header

1. **Authentication Endpoints**

**Registering a new user :**

Post : /v1/auth/register

Request body :{

"username": "pratyush\_khadka",

"email": "pratyush.khadka@gmail.com",

"password": "SecurePass123!", "confirmPassword": "SecurePass123!",

"firstName": "Pratyush",

"lastName": "Khadka" }

Response:

{ "status": 201, "message": "User registered successfully",

"data": { "id": 101, "username": "pratyush\_khadka", "email": "pratyush.khadka@gmail.com", "firstName": "Pratyush", "lastName": "Khadka", "createdAt": "2024-01-15T10:30:00Z" } }

**Login user**

**POST** /v1/auth/login

**Request Body :**

{ "email": "pratyush.khadka@gmail.com",

"password": "SecurePass123!" }

Response :

{ "status": 200,

"message": "Login successful",

"data": { "accessToken": "eyJhbGciOiJIUzI1NiIs...", "refreshToken": "eyJhbGciOiJIUzI1NiIs...", "expiresIn": 3600,

"user": { "id": 101, "username": "pratyush\_khadka", "email": "pratyush.khadka@gmail.com" } } }

**Logout user**

**POST** /v1/auth/logout

**Headers:** Authorization: Bearer <access\_token>

**Response:**

{ "status": 200,

"message": "Logout successful",

"data": null }

**Refresh Access Token**

**POST** /v1/auth/refresh

**Request Body:**

{

"refreshToken": "string

}

**Response:**

{ "status": 200,

"message": "Token refreshed successfully",

"data": { "accessToken": "eyJhbGciOiJIUzI1NiIs...", "expiresIn": 3600 }

}

1. **Password Management**

**Change Password**

**PATCH /v1/auth/change-password**

**Headers: Authorization: Bearer <access\_token>**

**Request Body:**

{ "currentPassword": "SecurePass123!",

"newPassword": "NewSecurePass456!",

"confirmPassword": "NewSecurePass456!" }

**Response:**

{ "status": 200,

"message": "Password changed successfully",

"data": null }

**Forgot Password**

**POST /v1/auth/forgot-password**

**Request Body:**

**{**

**"email":** [**pratyush.khadka@gmail.com**](mailto:pratyush.khadka@gmail.com)

**}**

**Response:**

{ "status": 200,

"message": "Password reset email sent successfully",

"data": null }

**Reset Password**

**POST /v1/auth/reset-password**

**Request Body:**

{ "token": "reset-token-abc123",

"newPassword": "BrandNewPass789!",

"confirmPassword": "BrandNewPass789!"

}

**Response:**

{ "status": 200,

"message": "Password reset successfully",

"data": null **}**

1. **User Management**

**Get All Users**

**GET v1/users**

{ "status": 200,

"message": "Users fetched successfully",

"data": { "items": [ { "id": 101, "username": "pratyush\_khadka", "firstName": "Pratyush", "lastName": "Khadka", "email": "pratyush.khadka@gmail.com", "createdAt": "2024-01-15T10:30:00Z" },

{ "id": 102, "username": "aakriti\_sharma", "firstName": "Aakriti", "lastName": "Sharma", "email": "aakriti.sharma@gmail.com", "createdAt": "2024-01-10T08:15:00Z" } ],

**Delete User Account**

**DELETE** /v1/users/{userId}

**Headers:** Authorization: Bearer <access\_token>

**Response:**

{ "status": 200,

"message": "User account deleted successfully",

"data": null }

1. **Profile Management**

**Get Current User Profile**

**GET /v1/me**

**Headers: Authorization: Bearer <access\_token>**

**Response:**

{ "status": 200,

"message": "Profile fetched successfully",

"data": { "id": 101, "username": "pratyush\_khadka", "email": "pratyush.khadka@gmail.com", "firstName": "Pratyush", "lastName": "Khadka", "bio": "Full-stack developer and tech blogger from Kathmandu, Nepal", "profilePicture": "https://example.com/pratyush-avatar.jpg", "createdAt": "2024-01-15T10:30:00Z", "postsCount": 15, "followersCount": 120 }

}

**Update Current User Profile**

**PATCH /v1/me**

**Headers: Authorization: Bearer <access\_token>**

**Request Body:**

{ "firstName": "Pratyush",

"lastName": "Khadka",

"bio": "Senior Full-stack developer and tech blogger from Nepal. Love sharing knowledge about React, Node.js and modern web development.", "profilePicture": "https://example.com/pratyush-new-avatar.jpg" }

**Response:**

{ "status": 200,

"message": "Profile updated successfully",

"data": { "id": 101, "username": "pratyush\_khadka", "firstName": "Pratyush", "lastName": "Khadka", "bio": "Senior Full-stack developer and tech blogger from Nepal. Love sharing knowledge about React, Node.js and modern web development.", "profilePicture": "https://example.com/pratyush-new-avatar.jpg" }

}

**Get Public User Profile**

**GET /v1/users/{userId}/profile**

**Response:**

{ "status": 200,

"message": "Public profile fetched successfully",

"data": { "id": 101, "username": "pratyush\_khadka", "firstName": "Pratyush", "lastName": "Khadka", "bio": "Full-stack developer and tech blogger from Kathmandu, Nepal", "profilePicture": "https://example.com/pratyush-avatar.jpg", "createdAt": "2024-01-15T10:30:00Z", "postsCount": 15, "followersCount": 120 }

}

1. **Posts Management**

**List Posts (with filtering, search, pagination)**

**GET /v1/posts?page=1&limit=20&search=javascript&authorId=101&tag=programming&sortBy=createdAt&order=desc**

**Query Parameters:**

* **page :Page number**
* **limit :Posts per page**
* **search : Search in title and content**
* **authorId : Filter by author**
* **tag : Filter by tag**
* **sortBy : Sort field (createdAt, title, likesCount)**
* **order : asc or desc**

**Response:**

{ "status": 200,

"message": "Posts fetched successfully",

"data": { "items": [ { "id": 1, "title": "Getting Started with JavaScript", "content": "JavaScript is a versatile programming language...", "excerpt": "Learn the basics of JavaScript programming...", "slug": "getting-started-with-javascript", "author": { "id": 101, "username": "johndoe", "firstName": "John", "lastName": "Doe" },

"tags": ["javascript", "programming", "tutorial"], "createdAt": "2024-01-15T10:30:00Z", "updatedAt": "2024-01-15T10:30:00Z", "likesCount": 25, "commentsCount": 5, "isLikedByCurrentUser": true } ],

"pagination": { "currentPage": 1, "totalPages": 10, "totalItems": 200, "hasNext": true, "hasPrevious": false }

}

}

**Get Post by ID**

**GET /v1/posts/{postId}**

**Response:**

{"status": 200,

"message": "Post fetched successfully",

"data": { "id": 1, "title": "Getting Started with JavaScript", "content": "Full post content here...", "slug": "getting-started-with-javascript",

"author": { "id": 101, "username": "johndoe", "firstName": "John", "lastName": "Doe", "profilePicture": "https://example.com/avatar.jpg" }, "tags": ["javascript", "programming"], "createdAt": "2024-01-15T10:30:00Z", "updatedAt": "2024-01-15T10:30:00Z", "likesCount": 25, "commentsCount": 5, "isLikedByCurrentUser": false }

}

**Create Post**

**POST /v1/posts**

**Headers: Authorization: Bearer <access\_token>**

**Request Body:**

{ "title": "string",

"content": "string",

"excerpt": "string",

"tags": ["string"], "status": "draft|published" }

**Response:**

{ "status": 201,

"message": "Post created successfully",

"data": { "id": 1, "title": "New Blog Post", "content": "Post content...", "slug": "new-blog-post", "status": "published", "createdAt": "2024-01-15T10:30:00Z" }

}

**Update Post**

**PUT /v1/posts/{postId}**

**Headers: Authorization: Bearer <access\_token>**

**Request Body:**

{ "title": "string",

"content": "string",

"excerpt": "string",

"tags": ["string"],

"status": "draft|published" }

**Response:**

{ "status": 200,

"message": "Post updated successfully",

"data": { "id": 1, "title": "Updated Title", "content": "Updated content...", "updatedAt": "2024-01-15T11:30:00Z" }

}

**Delete Post**

**DELETE /v1/posts/{postId}**

**Headers: Authorization: Bearer <access\_token>**

**Response:**

{ "status": 200,

"message": "Post deleted successfully",

"data": null }

**Get Logged-in User's Posts**

**GET** /v1/me/posts?page=1&limit=20&status=published

**Headers:** Authorization: Bearer <access\_token>

**Query Parameters:**

* page : Page number
* limit : Posts per page
* status : Filter by status (draft, published)

**Response:**

{ "status": 200,

"message": "User posts fetched successfully", "data": { "items": [ { "id": 1, "title": "My Blog Post", "status": "published", "createdAt": "2024-01-15T10:30:00Z", "likesCount": 10, "commentsCount": 3 } ],

"pagination": { "currentPage": 1, "totalPages": 3, "totalItems": 50 }

}

}

**Get Posts from Specific User**

**GET /v1/users/{userId}/posts?page=1&limit=20**

**Response:**

{ "status": 200,

"message": "User posts fetched successfully",

"data": { "items": [ { "id": 1, "title": "User's Blog Post", "excerpt": "Post excerpt...", "author": { "id": 101, "username": "johndoe" }, "createdAt": "2024-01-15T10:30:00Z", "likesCount": 15, "commentsCount": 8 } ],

"pagination": { "currentPage": 1, "totalPages": 5, "totalItems": 100 }

}

}

**6. Comments Management**

**Add Comment to Post**

**POST** /v1/posts/{postId}/comments

**Headers:** Authorization: Bearer <access\_token>

**Request Body:**

json

{

"content": "string",

"parentId": "number"

}

**Response:**

{

"status": 201,

"message": "Comment added successfully",

"data": {

"id": 1,

"content": "Great post!",

"author": {

"id": 101,

"username": "johndoe",

"firstName": "John",

"lastName": "Doe"

},

"postId": 1,

"parentId": null,

"createdAt": "2024-01-15T10:30:00Z"

}

}

**List Comments for Post**

**GET** /v1/posts/{postId}/comments?page=1&limit=20&sortBy=createdAt&order=asc

**Response:**

{

"status": 200,

"message": "Comments fetched successfully",

"data": {

"items": [

{

"id": 1,

"content": "Great post!",

"author": {

"id": 101,

"username": "johndoe",

"firstName": "John",

"profilePicture": "https://example.com/avatar.jpg"

},

"createdAt": "2024-01-15T10:30:00Z",

"updatedAt": "2024-01-15T10:30:00Z",

"repliesCount": 2,

"replies": []

}

],

"pagination": {

"currentPage": 1,

"totalPages": 3,

"totalItems": 50

}

}

}

**Update Comment**

**PUT** /v1/comments/{commentId}

**Headers:** Authorization: Bearer <access\_token>

**Request Body:**

{

"content": "string"

}

**Response:**

{

"status": 200,

"message": "Comment updated successfully",

"data": {

"id": 1,

"content": "Updated comment content",

"updatedAt": "2024-01-15T11:30:00Z"

}

}

**Delete Comment**

**DELETE** /v1/comments/{commentId}

**Headers:** Authorization: Bearer <access\_token>

**Response:**

{

"status": 200,

"message": "Comment deleted successfully",

"data": null

}

**Get All Comments by Current User**

**GET** /v1/me/comments?page=1&limit=20

**Headers:** Authorization: Bearer <access\_token>

**Response:**

json

{

"status": 200,

"message": "User comments fetched successfully",

"data": {

"items": [

{

"id": 1,

"content": "My comment",

"post": {

"id": 1,

"title": "Post Title"

},

"createdAt": "2024-01-15T10:30:00Z"

}

],

"pagination": {

"currentPage": 1,

"totalPages": 2,

"totalItems": 30

}

}

}

**7. Likes Management**

**Like a Post**

**POST** /v1/posts/{postId}/likes

**Headers:** Authorization: Bearer <access\_token>

**Response:**

{

"status": 201,

"message": "Post liked successfully",

"data": {

"postId": 1,

"userId": 101,

"createdAt": "2024-01-15T10:30:00Z"

}

}

**Unlike a Post**

**DELETE** /v1/posts/{postId}/likes

**Headers:** Authorization: Bearer <access\_token>

**Response:**

{

"status": 200,

"message": "Post unliked successfully",

"data": null

}

**Get Total Likes for Post**

**GET** /v1/posts/{postId}/likes

**Response:**

{

"status": 200,

"message": "Post likes fetched successfully",

"data": {

"postId": 1,

"totalLikes": 25,

"isLikedByCurrentUser": false

}

}

**Check if Current User Liked Post**

**GET** /v1/posts/{postId}/likes/me

**Headers:** Authorization: Bearer <access\_token>

**Response:**

{

"status": 200,

"message": "Like status fetched successfully",

"data": {

"postId": 1,

"isLiked": true,

"likedAt": "2024-01-15T10:30:00Z"

}

}

**Get Posts Liked by Current User**

**GET** /v1/me/likes?page=1&limit=20

**Headers:** Authorization: Bearer <access\_token>

**Response:**

{

"status": 200,

"message": "Liked posts fetched successfully",

"data": {

"items": [

{

"id": 1,

"title": "Liked Post Title",

"author": {

"id": 102,

"username": "janedoe"

},

"likedAt": "2024-01-15T10:30:00Z",

"likesCount": 50

}

],

"pagination": {

"currentPage": 1,

"totalPages": 5,

"totalItems": 100

}

}

}

**Error Responses**

**Validation Error (400)**

{

"status": 400,

"message": "Validation failed",

"errors": {

"email": ["Email is required", "Email format is invalid"],

"password": ["Password must be at least 8 characters"]

}

}

**Unauthorized (401)**

{

"status": 401,

"message": "Unauthorized access",

"data": null

}

**Forbidden (403)**

{

"status": 403,

"message": "You don't have permission to access this resource",

"data": null

}

**Not Found (404)**

{

"status": 404,

"message": "Resource not found",

"data": null

}

**Server Error (500)**

{

"status": 500,

"message": "Internal server error",

"data": null

}