

# Backend API Documentation

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This document provides comprehensive documentation for all backend API endpoints including request/response examples and Postman-ready formats.

**Base URL:** `http://localhost:8000`

## 1. Authentication APIs

### 1.1 Login

Authenticate user and get JWT access and refresh tokens.

Method	Endpoint	Auth Required
POST	/api/login/	No

Request Body:

```
{
  "email": "mani@gmail.com",
  "password": "Mani@2004"
}
```

Response (Success - 200):

```
{
  "success": true,
  "message": "Login successful",
  "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...\"",
  "refresh_token": "ICWAVy3_u16fJB3PrYv3hB_qIFb0uTha6Vu-TfKjyVjhcZEbtmP0FJp-Dt",
  "token_type": "Bearer",
  "expires_in": 900,
  "user": {
    "email": "mani@gmail.com",
    "user_type": "user",
    "is_admin": false,
    "permissions": ["read", "write"],
    "first_name": "John",
    "last_name": "Doe",
    "full_name": "John Doe"
  }
}
```

Postman Setup:

- Method: POST
- URL: `http://localhost:8000/api/login/`
- Headers: Content-Type: application/json
- Body: Select "raw" and "JSON", then paste the request body above

### 1.2 Refresh Token

Get a new access token using refresh token.

Method	Endpoint	Auth Required
--------	----------	---------------

POST

/api/refresh-token/

No

#### Request Body:

```
{
  "refresh_token": "ICWAVy3_u16fJB3PrYv3hB_qIFb0uTha6Vu-TfKjyVjhcZEbtmP0FJp-Dt"
}
```

#### Response (Success - 200):

```
{
  "success": true,
  "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",
  "token_type": "Bearer",
  "expires_in": 900,
  "refresh_token": "new_refresh_token_if_rotated"
}
```

#### Postman Setup:

- Method: POST
- URL: http://localhost:8000/api/refresh-token/
- Headers: Content-Type: application/json

### 1.3 Check Authentication

Verify if access token is valid and get user information.

Method	Endpoint	Auth Required
GET	/api/check-auth/	Yes

#### Headers:

Authorization: Bearer <your\_access\_token>

#### Response (Success - 200):

```
{
  "authenticated": true,
  "user_email": "mani@gmail.com",
  "is_admin": false,
  "permissions": ["read", "write"],
  "user_name": "John Doe",
  "user_type": "user",
  "user_details": {
    "first_name": "John",
    "last_name": "Doe",
    "is_active": true,
    "created_at": "2024-01-01T00:00:00Z",
    "updated_at": "2024-01-01T00:00:00Z"
  }
}
```

```
}  
}
```

Postman Setup:

- Method: GET
- URL: `http://localhost:8000/api/check-auth/`
- Headers: Authorization: Bearer <your\_access\_token>

## 1.4 Logout

Logout and revoke refresh token.

Method	Endpoint	Auth Required
POST	<code>/api/logout/</code>	No

Request Body:

```
{  
  "refresh_token": "ICWAVy3_u16fJB3PrYv3hB_qIFb0uTha6Vu-TfKjyVjhcZEbtmP0FJp-Dt"  
}
```

Response (Success - 200):

```
{  
  "success": true,  
  "message": "Logout successful"  
}
```

Postman Setup:

- Method: POST
- URL: `http://localhost:8000/api/logout/`
- Headers: Content-Type: application/json

## 2. Customer Dashboard APIs

### 2.1 List All Customers

Get list of all customers with optional search.

Method	Endpoint	Auth Required
GET	/api/clients/	Yes

Headers:

Authorization: Bearer <your\_access\_token>

Query Parameters (Optional):

- search: Search term to filter customers (searches in customer\_name, company\_name, email, phone\_number, address)

Example Request:

GET http://localhost:8000/api/clients/?search=customer\_name

Response (Success - 200):

```
{
  "clients": [
    {
      "id": 1,
      "customer_name": "Test Customer",
      "company_name": "Test Company",
      "phone_number": "+1234567890",
      "email": "test@example.com",
      "address": "Test Address",
      "is_active": true,
      "created_at": "2024-01-01T00:00:00Z",
      "updated_at": "2024-01-01T00:00:00Z"
    }
  ],
  "count": 1
}
```

Postman Setup:

- Method: GET
- URL: http://localhost:8000/api/clients/
- Headers: Authorization: Bearer <your\_access\_token>
- For search: Add query parameter "search" with value

## 2.2 Create Customer

Create a new customer.

Method	Endpoint	Auth Required
POST	/api/clients/	Yes

### Headers:

Authorization: Bearer <your\_access\_token>  
Content-Type: application/json

### Request Body:

```
{
  "customer_name": "Test Customer",
  "company_name": "Test Company",
  "phone_number": "+1234567890",
  "email": "test@example.com",
  "address": "Test Address"
}
```

### Response (Success - 201):

```
{
  "success": true,
  "client": {
    "id": 1,
    "customer_name": "Test Customer",
    "company_name": "Test Company",
    "phone_number": "+1234567890",
    "email": "test@example.com",
    "address": "Test Address",
    "created_at": "2024-01-01T00:00:00Z",
    "updated_at": "2024-01-01T00:00:00Z"
  }
}
```

### Postman Setup:

- Method: POST
- URL: http://localhost:8000/api/clients/
- Headers: Authorization: Bearer <your\_access\_token>, Content-Type: application/json
- Body: Select "raw" and "JSON", then paste the request body above

## 2.3 Update Customer

Update an existing customer.

Method	Endpoint	Auth Required
PUT	/api/clients/{id}/	Yes

Headers:

Authorization: Bearer <your\_access\_token>  
Content-Type: application/json

URL Parameters:

- id: Customer ID (integer)

Request Body:

```
{
  "customer_name": "Updated Customer",
  "company_name": "Updated Company",
  "phone_number": "+1234567890",
  "email": "updated@example.com",
  "address": "Updated Address",
  "is_active": true
}
```

Response (Success - 200):

```
{
  "success": true,
  "client": {
    "id": 1,
    "customer_name": "Updated Customer",
    "company_name": "Updated Company",
    "phone_number": "+1234567890",
    "email": "updated@example.com",
    "address": "Updated Address",
    "created_at": "2024-01-01T00:00:00Z",
    "updated_at": "2024-01-01T00:00:00Z"
  }
}
```

Postman Setup:

- Method: PUT
- URL: http://localhost:8000/api/clients/1/
- Headers: Authorization: Bearer <your\_access\_token>, Content-Type: application/json
- Body: Select "raw" and "JSON", then paste the request body above

2.4 Delete Customer

Delete a customer.

Method	Endpoint	Auth Required
DELETE	/api/clients/{id}/	Yes

#### Headers:

Authorization: Bearer <your\_access\_token>

#### URL Parameters:

- id: Customer ID (integer)

#### Response (Success - 200):

```
{
  "success": true,
  "message": "Client deleted successfully"
}
```

#### Postman Setup:

- Method: DELETE
- URL: http://localhost:8000/api/clients/1/
- Headers: Authorization: Bearer <your\_access\_token>



### 3. User Dashboard APIs

#### 3.1 List All Users

Get list of all users with optional search.

Method	Endpoint	Auth Required
GET	/api/users/	Yes

Headers:

Authorization: Bearer <your\_access\_token>

Query Parameters (Optional):

- search: Search term to filter users (searches in email, first\_name, last\_name)

Example Request:

GET http://localhost:8000/api/users/?search=user\_name

Response (Success - 200):

```
{
  "users": [
    {
      "id": 1,
      "email": "user@example.com",
      "first_name": "John",
      "last_name": "Doe",
      "full_name": "John Doe",
      "is_active": true,
      "is_admin": false,
      "permissions": ["read", "write"],
      "created_at": "2024-01-01T00:00:00Z",
      "updated_at": "2024-01-01T00:00:00Z"
    }
  ],
  "count": 1
}
```

Postman Setup:

- Method: GET
- URL: http://localhost:8000/api/users/
- Headers: Authorization: Bearer <your\_access\_token>
- For search: Add query parameter "search" with value

### 3.2 Create User

Create a new user.

Method	Endpoint	Auth Required
POST	/api/users/	Yes

Headers:

Authorization: Bearer <your\_access\_token>  
Content-Type: application/json

Request Body:

```
{
  "email": "user@example.com",
  "password": "password123",
  "first_name": "John",
  "last_name": "Doe",
  "is_active": true,
  "is_admin": false,
  "permissions": ["read", "write"]
}
```

Response (Success - 201):

```
{
  "success": true,
  "user": {
    "id": 1,
    "email": "user@example.com",
    "first_name": "John",
    "last_name": "Doe",
    "full_name": "John Doe",
    "is_active": true,
    "is_admin": false,
    "permissions": ["read", "write"],
    "created_at": "2024-01-01T00:00:00Z",
    "updated_at": "2024-01-01T00:00:00Z"
  }
}
```

Postman Setup:

- Method: POST
- URL: http://localhost:8000/api/users/
- Headers: Authorization: Bearer <your\_access\_token>, Content-Type: application/json
- Body: Select "raw" and "JSON", then paste the request body above

### 3.3 Update User

Update an existing user.

Method	Endpoint	Auth Required
PUT	/api/users/{id}/	Yes

Headers:

Authorization: Bearer <your\_access\_token>  
Content-Type: application/json

URL Parameters:

- id: User ID (integer)

Request Body:

```
{
  "email": "updated@example.com",
  "first_name": "Jane",
  "last_name": "Smith",
  "is_active": true,
  "is_admin": false,
  "permissions": ["read"]
}
```

Response (Success - 200):

```
{
  "success": true,
  "user": {
    "id": 1,
    "email": "updated@example.com",
    "first_name": "Jane",
    "last_name": "Smith",
    "full_name": "Jane Smith",
    "is_active": true,
    "is_admin": false,
    "permissions": ["read"],
    "created_at": "2024-01-01T00:00:00Z",
    "updated_at": "2024-01-01T00:00:00Z"
  }
}
```

Postman Setup:

- Method: PUT
- URL: http://localhost:8000/api/users/1/
- Headers: Authorization: Bearer <your\_access\_token>, Content-Type: application/json
- Body: Select "raw" and "JSON", then paste the request body above

### 3.4 Reset User Password

Reset password for a user.

Method	Endpoint	Auth Required
POST	/api/users/{id}/reset-password/	Yes

#### Headers:

```
Authorization: Bearer <your_access_token>
Content-Type: application/json
```

#### URL Parameters:

- id: User ID (integer)

#### Request Body:

```
{
  "new_password": "newpassword123",
  "confirm_password": "newpassword123"
}
```

#### Response (Success - 200):

```
{
  "success": true,
  "message": "Password reset successfully"
}
```

#### Postman Setup:

- Method: POST
- URL: http://localhost:8000/api/users/1/reset-password/
- Headers: Authorization: Bearer <your\_access\_token>, Content-Type: application/json
- Body: Select "raw" and "JSON", then paste the request body above

### 3.5 Delete User

Delete a user.

Method	Endpoint	Auth Required
DELETE	/api/users/{id}/	Yes

### Headers:

Authorization: Bearer <your\_access\_token>

### URL Parameters:

- id: User ID (integer)

### Response (Success - 200):

```
{  
  "success": true,  
  "message": "User deleted successfully"  
}
```

### Postman Setup:

- Method: DELETE
- URL: <http://localhost:8000/api/users/1/>
- Headers: Authorization: Bearer <your\_access\_token>

## 4. Additional APIs

### 4.1 Dashboard Statistics

Get dashboard statistics including KPIs and chart data.

Method	Endpoint	Auth Required
GET	/api/dashboard-stats/	Yes

#### Headers:

Authorization: Bearer <your\_access\_token>

#### Query Parameters (Optional):

- year: Year for filtering statistics (default: current year)

#### Response (Success - 200):

```
{
  "success": true,
  "data": {
    "kpis": {
      "total_quotations": 100,
      "total_customers": 50,
      "active_customers": 45,
      "inactive_customers": 5,
      "total_users": 10
    },
    "monthly_sends": [
      {
        "month": "JAN",
        "email": 10,
        "whatsapp": 5,
        "total": 15
      }
    ],
    "send_breakdown": {
      "email": {
        "count": 80,
        "percentage": 80.0,
        "grand_total": 50000.00
      },
      "whatsapp": {
        "count": 20,
        "percentage": 20.0,
        "grand_total": 10000.00
      },
      "total": 100,
      "total_grand_total": 60000.00
    },
    "customers": [
      {
        "id": 1,
        "customer_name": "Customer Name",
        "company_name": "Company Name",
        "email": "customer@example.com",
```

```

        "phone_number": "+1234567890",
        "total_quotation": 5,
        "status": "Active",
        "user_breakdown": [
            {
                "user_name": "Admin",
                "count": 3
            },
            {
                "user_name": "John Doe",
                "count": 2
            }
        ]
    },
    "year": 2024
}
}

```

## 4.2 Get Company Details

Get all company details for settings page.

Method	Endpoint	Auth Required
GET	/api/company-details/	Yes

Headers:

Authorization: Bearer <your\_access\_token>

Response (Success - 200):

```

{
  "success": true,
  "company": {
    "company_name": "MAKLOGISTICS",
    "email": "maklogistics@gmail.com",
    "tagline": "DIGITAL SOLUTION ARCHITECTS",
    "phone_number": "9042510714",
    "address": "TBI@TCE, Thiruparankundaram, Madurai - 625 015",
    "sendemail": "send@example.com",
    "sendpassword": "password",
    "sendnumber": "+1234567890",
    "openrouter_api_key": "sk-or-vl-...",
    "openrouter_model": "google/gemini-flash-1.5:free",
    "login_logo_url": "/media/company_logos/logo.png",
    "login_image_url": "/media/company_login/image.png",
    "quotation_logo_url": "/media/company_quotation/logo.png",
    "created_at": "2024-01-01T00:00:00Z",
    "updated_at": "2024-01-01T00:00:00Z"
  }
}

```

## 4.3 Update Company Details

Update company details.

Method	Endpoint	Auth Required
PUT	/api/company-details/update/	Yes

Headers:

Authorization: Bearer <your\_access\_token>  
Content-Type: application/json

Request Body:

```
{
  "company_name": "Updated Company",
  "email": "updated@example.com",
  "tagline": "New Tagline",
  "phone_number": "+1234567890",
  "address": "New Address",
  "sendemail": "send@example.com",
  "sendpassword": "password",
  "sendnumber": "+1234567890",
  "openrouter_api_key": "sk-or-v1-...",
  "openrouter_model": "google/gemini-flash-1.5:free"
}
```

4.4 Send Quotation Email

Send quotation PDF via email using SMTP.

Method	Endpoint	Auth Required
POST	/api/send-quotation-email/	Yes

Headers:

Authorization: Bearer <your\_access\_token>  
Content-Type: application/json

Request Body:

```
{
  "recipient_email": "customer@example.com",
  "customer_name": "Customer Name",
  "pdf_base64": "base64_encoded_pdf_string",
  "pdf_filename": "quotation.pdf"
}
```

Response (Success - 200):

```
{
  "success": true,
  "message": "Quotation sent successfully to customer@example.com"
}
```



## 4.5 Get Company Info

Get company information for header display.

Method	Endpoint	Auth Required
GET	/api/company-info/	No

Response (Success - 200):

```
{
  "company_name": "MAKLOGISTICS",
  "tagline": "DIGITAL SOLUTION ARCHITECTS",
  "website": "",
  "phone_number": "9042510714",
  "email": "maklogistics@gmail.com",
  "address": "TBI@TCE, Thiruparankundaram, Madurai - 625 015",
  "logo_url": "/media/company_quotation/logo.png"
}
```

## 4.6 Get Company Login

Get company login credentials and images for login page.

Method	Endpoint	Auth Required
GET	/api/company-login/	No

Response (Success - 200):

```
{
  "email": "maklogistics@gmail.com",
  "login_logo_url": "/media/company_logos/logo.png",
  "login_image_url": "/media/company_login/image.png"
}
```

## 5. Quotation Management APIs

### 5.1 Chat

Chat with AI for quotation generation.

Method	Endpoint	Auth Required
POST	/api/chat/	Yes

#### Headers:

Authorization: Bearer <your\_access\_token>  
Content-Type: application/json

#### Request Body:

```
{  
  "message": "Add a web development service for $5000"  
}
```

#### Response (Success - 200):

```
{  
  "response": "I've added the web development service to your quotation.",  
  "quotation": {  
    "services": [  
      {  
        "name": "Web Development",  
        "price": 5000,  
        "quantity": 1,  
        "gst": 18,  
        "total": 5900  
      }  
    ],  
    "grand_total": 5900  
  }  
}
```

### 5.2 Get Quotation

Get current quotation from session.

Method	Endpoint	Auth Required
GET	/api/quotation/	Yes

#### Headers:

Authorization: Bearer <your\_access\_token>

### 5.3 Reset Quotation

Reset quotation to empty state.

Method	Endpoint	Auth Required
POST	/api/reset/	Yes

### 5.4 Sync Quotation

Sync quotation state from frontend.

Method	Endpoint	Auth Required
POST	/api/sync-quotation/	Yes

### 5.5 Get Conversation History

Get conversation history from session.

Method	Endpoint	Auth Required
GET	/api/conversation-history/	Yes

### 5.6 Sync Conversation History

Sync conversation history from frontend.

Method	Endpoint	Auth Required
POST	/api/sync-conversation-history/	Yes

## 6. Error Responses

All APIs may return the following error responses:

### 6.1 400 Bad Request

```
{  
  "error": "Error message describing what went wrong"  
}
```

### 6.2 401 Unauthorized

```
{  
  "error": "Invalid email or password"  
}
```

### 6.3 404 Not Found

```
{  
  "error": "Client not found"  
}
```

### 6.4 500 Internal Server Error

```
{  
  "error": "Error message describing the server error"  
}
```

## 7. Authentication Notes

- Access tokens expire in 15 minutes (900 seconds)
- Use the refresh token endpoint to get a new access token
- Include the access token in the Authorization header for protected endpoints
- Format: Authorization: Bearer <access\_token>
- Both company login and user login are supported
- Company login has admin privileges by default
- User login permissions are based on the user's assigned permissions

## 8. Postman Collection Tips

1. Create a new Postman Collection named "Kattappa API"

2. Set collection variable: base\_url = http://localhost:8000

3. Create a folder structure:

- Authentication
- Customer Dashboard
- User Dashboard
- Quotation Management
- Additional APIs

4. For authentication:

- First call Login API
- Save access\_token and refresh\_token as collection variables
- Use {{access\_token}} in Authorization header for protected endpoints

5. Set up Pre-request Script for token refresh (optional):

```
// Check if token is expired and refresh if needed
// This is a simplified example
if (pm.collectionVariables.get("token_expiry") < Date.now()) {
    // Call refresh token endpoint
}
```