**# Complete API Documentation**

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**## Base URL**

```

http://localhost:3000

```

**## Modules and Endpoints**

**### 1. Users**

```

POST    /users      - Create a new user

GET     /users      - Get all users

GET     /users/:id  - Get a specific user

PATCH   /users/:id  - Update a user

DELETE  /users/:id  - Delete a user

```

**#### Example Requests**

```bash

# Create a user

curl -X POST http://localhost:3000/users \

  -H "Content-Type: application/json" \

  -d '{

    "name": "John Doe",

    "phone": "1234567890",

    "password": "password123",

    "role\_id": "role-001",

    "district": "District A"

  }'

# Get all users

curl -X GET http://localhost:3000/users

# Get a specific user

curl -X GET http://localhost:3000/users/1

# Update a user

curl -X PATCH http://localhost:3000/users/1 \

  -H "Content-Type: application/json" \

  -d '{

    "name": "Jane Doe"

  }'

# Delete a user

curl -X DELETE http://localhost:3000/users/1

```

**### 2. Roles**

```

POST    /roles      - Create a new role

GET     /roles      - Get all roles

GET     /roles/:id  - Get a specific role

PATCH   /roles/:id  - Update a role

DELETE  /roles/:id  - Delete a role

```

**#### Example Requests**

```bash

# Create a role

curl -X POST http://localhost:3000/roles \

  -H "Content-Type: application/json" \

  -d '{

    "id": "role-001",

    "name": "Admin",

    "level": 1

  }'

# Get all roles

curl -X GET http://localhost:3000/roles

# Get a specific role

curl -X GET http://localhost:3000/roles/role-001

# Update a role

curl -X PATCH http://localhost:3000/roles/role-001 \

  -H "Content-Type: application/json" \

  -d '{

    "name": "Administrator"

  }'

# Delete a role

curl -X DELETE http://localhost:3000/roles/role-001

```

**### 3. Emergency Reports**

```

POST    /emergency-reports      - Create a new emergency report

GET     /emergency-reports      - Get all emergency reports

GET     /emergency-reports/:id  - Get a specific emergency report

PATCH   /emergency-reports/:id  - Update an emergency report

DELETE  /emergency-reports/:id  - Delete an emergency report

```

**#### Example Requests**

```bash

# Create an emergency report

curl -X POST http://localhost:3000/emergency-reports \

  -H "Content-Type: application/json" \

  -d '{

    "id": "report-001",

    "type": "Fire",

    "severity": "High",

    "lat": 12.345678,

    "lng": 98.765432,

    "district": "District A",

    "reported\_by": "user-001",

    "status": "Pending"

  }'

# Get all emergency reports

curl -X GET http://localhost:3000/emergency-reports

# Get a specific emergency report

curl -X GET http://localhost:3000/emergency-reports/report-001

# Update an emergency report

curl -X PATCH http://localhost:3000/emergency-reports/report-001 \

  -H "Content-Type: application/json" \

  -d '{

    "status": "Resolved"

  }'

# Delete an emergency report

curl -X DELETE http://localhost:3000/emergency-reports/report-001

```

**### 4. Threads**

```

POST    /threads      - Create a new thread

GET     /threads      - Get all threads

GET     /threads/:id  - Get a specific thread

PATCH   /threads/:id  - Update a thread

DELETE  /threads/:id  - Delete a thread

```

**#### Example Requests**

```bash

# Create a thread

curl -X POST http://localhost:3000/threads \

  -H "Content-Type: application/json" \

  -d '{

    "id": "thread-001",

    "report\_id": "report-001",

    "organizer": "user-001"

  }'

# Get all threads

curl -X GET http://localhost:3000/threads

# Get a specific thread

curl -X GET http://localhost:3000/threads/thread-001

# Update a thread

curl -X PATCH http://localhost:3000/threads/thread-001 \

  -H "Content-Type: application/json" \

  -d '{

    "organizer": "user-002"

  }'

# Delete a thread

curl -X DELETE http://localhost:3000/threads/thread-001

```

**### 5. Messages**

```

POST    /messages      - Create a new message

GET     /messages      - Get all messages

GET     /messages/:id  - Get a specific message

PATCH   /messages/:id  - Update a message

DELETE  /messages/:id  - Delete a message

```

**#### Example Requests**

```bash

# Create a message

curl -X POST http://localhost:3000/messages \

  -H "Content-Type: application/json" \

  -d '{

    "id": "message-001",

    "thread\_id": "thread-001",

    "sender\_id": "user-001",

    "content": "This is a test message"

  }'

# Get all messages

curl -X GET http://localhost:3000/messages

# Get a specific message

curl -X GET http://localhost:3000/messages/message-001

# Update a message

curl -X PATCH http://localhost:3000/messages/message-001 \

  -H "Content-Type: application/json" \

  -d '{

    "content": "This is an updated message"

  }'

# Delete a message

curl -X DELETE http://localhost:3000/messages/message-001

```

**### 6. Community Posts**

```

POST    /community-posts      - Create a new community post

GET     /community-posts      - Get all community posts

GET     /community-posts/:id  - Get a specific community post

PATCH   /community-posts/:id  - Update a community post

DELETE  /community-posts/:id  - Delete a community post

```

**#### Example Requests**

```bash

# Create a community post

curl -X POST http://localhost:3000/community-posts \

  -H "Content-Type: application/json" \

  -d '{

    "id": "post-001",

    "user\_id": "user-001",

    "title": "Community Event",

    "content": "Join us for a community event",

    "category": "Events"

  }'

# Get all community posts

curl -X GET http://localhost:3000/community-posts

# Get a specific community post

curl -X GET http://localhost:3000/community-posts/post-001

# Update a community post

curl -X PATCH http://localhost:3000/community-posts/post-001 \

  -H "Content-Type: application/json" \

  -d '{

    "content": "Join us for an amazing community event"

  }'

# Delete a community post

curl -X DELETE http://localhost:3000/community-posts/post-001

```

**### 7. District Services**

```

POST    /district-services      - Create a new district service

GET     /district-services      - Get all district services

GET     /district-services/:id  - Get a specific district service

PATCH   /district-services/:id  - Update a district service

DELETE  /district-services/:id  - Delete a district service

```

**#### Example Requests**

```bash

# Create a district service

curl -X POST http://localhost:3000/district-services \

  -H "Content-Type: application/json" \

  -d '{

    "id": "service-001",

    "name": "Fire Department",

    "district": "District A",

    "contact": "123-456-7890"

  }'

# Get all district services

curl -X GET http://localhost:3000/district-services

# Get a specific district service

curl -X GET http://localhost:3000/district-services/service-001

# Update a district service

curl -X PATCH http://localhost:3000/district-services/service-001 \

  -H "Content-Type: application/json" \

  -d '{

    "contact": "098-765-4321"

  }'

# Delete a district service

curl -X DELETE http://localhost:3000/district-services/service-001

```

**### 8. Events**

```

POST    /events      - Create a new event

GET     /events      - Get all events

GET     /events/:id  - Get a specific event

PATCH   /events/:id  - Update an event

DELETE  /events/:id  - Delete an event

```

**#### Example Requests**

```bash

# Create an event

curl -X POST http://localhost:3000/events \

  -H "Content-Type: application/json" \

  -d '{

    "id": "event-001",

    "title": "Community Cleanup",

    "description": "Help clean up the neighborhood",

    "date": "2023-06-15T10:00:00Z",

    "location": "Central Park",

    "organizer\_id": "user-001"

  }'

# Get all events

curl -X GET http://localhost:3000/events

# Get a specific event

curl -X GET http://localhost:3000/events/event-001

# Update an event

curl -X PATCH http://localhost:3000/events/event-001 \

  -H "Content-Type: application/json" \

  -d '{

    "description": "Help clean up the neighborhood - all welcome"

  }'

# Delete an event

curl -X DELETE http://localhost:3000/events/event-001

```

**### 9. Feedback**

```

POST    /feedback      - Create new feedback

GET     /feedback      - Get all feedback

GET     /feedback/:id  - Get specific feedback

PATCH   /feedback/:id  - Update feedback

DELETE  /feedback/:id  - Delete feedback

```

**#### Example Requests**

```bash

# Create feedback

curl -X POST http://localhost:3000/feedback \

  -H "Content-Type: application/json" \

  -d '{

    "id": "feedback-001",

    "user\_id": "user-001",

    "subject": "App Improvement",

    "message": "Great app, but could use some improvements"

  }'

# Get all feedback

curl -X GET http://localhost:3000/feedback

# Get specific feedback

curl -X GET http://localhost:3000/feedback/feedback-001

# Update feedback

curl -X PATCH http://localhost:3000/feedback/feedback-001 \

  -H "Content-Type: application/json" \

  -d '{

    "message": "Great app, but could use some improvements in the UI"

  }'

# Delete feedback

curl -X DELETE http://localhost:3000/feedback/feedback-001

```

**### 10. Incident Logs**

```

POST    /incident-logs      - Create a new incident log

GET     /incident-logs      - Get all incident logs

GET     /incident-logs/:id  - Get a specific incident log

PATCH   /incident-logs/:id  - Update an incident log

DELETE  /incident-logs/:id  - Delete an incident log

```

**#### Example Requests**

```bash

# Create an incident log

curl -X POST http://localhost:3000/incident-logs \

  -H "Content-Type: application/json" \

  -d '{

    "id": "log-001",

    "report\_id": "report-001",

    "resolved\_by": "user-002",

    "resolution\_notes": "Issue resolved successfully"

  }'

# Get all incident logs

curl -X GET http://localhost:3000/incident-logs

# Get a specific incident log

curl -X GET http://localhost:3000/incident-logs/log-001

# Update an incident log

curl -X PATCH http://localhost:3000/incident-logs/log-001 \

  -H "Content-Type: application/json" \

  -d '{

    "resolution\_notes": "Issue resolved successfully with follow-up actions"

  }'

# Delete an incident log

curl -X DELETE http://localhost:3000/incident-logs/log-001

```

**### 11. Notifications**

```

POST    /notifications      - Create a new notification

GET     /notifications      - Get all notifications

GET     /notifications/:id  - Get a specific notification

PATCH   /notifications/:id  - Update a notification

DELETE  /notifications/:id  - Delete a notification

```

**#### Example Requests**

```bash

# Create a notification

curl -X POST http://localhost:3000/notifications \

  -H "Content-Type: application/json" \

  -d '{

    "id": "notif-001",

    "title": "Emergency Alert",

    "message": "There is an emergency in your area",

    "recipient\_ids": ["user-001", "user-002"]

  }'

# Get all notifications

curl -X GET http://localhost:3000/notifications

# Get a specific notification

curl -X GET http://localhost:3000/notifications/notif-001

# Update a notification

curl -X PATCH http://localhost:3000/notifications/notif-001 \

  -H "Content-Type: application/json" \

  -d '{

    "message": "There is an emergency in your area - please stay safe"

  }'

# Delete a notification

curl -X DELETE http://localhost:3000/notifications/notif-001

```

**### 12. Post Comments**

```

POST    /post-comments      - Create a new post comment

GET     /post-comments      - Get all post comments

GET     /post-comments/:id  - Get a specific post comment

PATCH   /post-comments/:id  - Update a post comment

DELETE  /post-comments/:id  - Delete a post comment

```

**#### Example Requests**

```bash

# Create a post comment

curl -X POST http://localhost:3000/post-comments \

  -H "Content-Type: application/json" \

  -d '{

    "id": "comment-001",

    "post\_id": "post-001",

    "user\_id": "user-001",

    "content": "Great post!"

  }'

# Get all post comments

curl -X GET http://localhost:3000/post-comments

# Get a specific post comment

curl -X GET http://localhost:3000/post-comments/comment-001

# Update a post comment

curl -X PATCH http://localhost:3000/post-comments/comment-001 \

  -H "Content-Type: application/json" \

  -d '{

    "content": "Really great post!"

  }'

# Delete a post comment

curl -X DELETE http://localhost:3000/post-comments/comment-001

```

**### 13. Post Likes**

```

POST    /post-likes      - Create a new post like

GET     /post-likes      - Get all post likes

GET     /post-likes/:id  - Get a specific post like

PATCH   /post-likes/:id  - Update a post like

DELETE  /post-likes/:id  - Delete a post like

```

**#### Example Requests**

```bash

# Create a post like

curl -X POST http://localhost:3000/post-likes \

  -H "Content-Type: application/json" \

  -d '{

    "id": "like-001",

    "post\_id": "post-001",

    "user\_id": "user-001"

  }'

# Get all post likes

curl -X GET http://localhost:3000/post-likes

# Get a specific post like

curl -X GET http://localhost:3000/post-likes/like-001

# Update a post like

curl -X PATCH http://localhost:3000/post-likes/like-001 \

  -H "Content-Type: application/json" \

  -d '{

    "post\_id": "post-002"

  }'

# Delete a post like

curl -X DELETE http://localhost:3000/post-likes/like-001

```

**### 14. Report Status History**

```

POST    /report-status-history      - Create a new report status history entry

GET     /report-status-history      - Get all report status history entries

GET     /report-status-history/:id  - Get a specific report status history entry

PATCH   /report-status-history/:id  - Update a report status history entry

DELETE  /report-status-history/:id  - Delete a report status history entry

```

**#### Example Requests**

```bash

# Create a report status history entry

curl -X POST http://localhost:3000/report-status-history \

  -H "Content-Type: application/json" \

  -d '{

    "id": "history-001",

    "report\_id": "report-001",

    "status": "In Progress",

    "changed\_by": "user-001"

  }'

# Get all report status history entries

curl -X GET http://localhost:3000/report-status-history

# Get a specific report status history entry

curl -X GET http://localhost:3000/report-status-history/history-001

# Update a report status history entry

curl -X PATCH http://localhost:3000/report-status-history/history-001 \

  -H "Content-Type: application/json" \

  -d '{

    "status": "Resolved"

  }'

# Delete a report status history entry

curl -X DELETE http://localhost:3000/report-status-history/history-001

```

**### 15. Resources**

```

POST    /resources      - Create a new resource

GET     /resources      - Get all resources

GET     /resources/:id  - Get a specific resource

PATCH   /resources/:id  - Update a resource

DELETE  /resources/:id  - Delete a resource

```

**#### Example Requests**

```bash

# Create a resource

curl -X POST http://localhost:3000/resources \

  -H "Content-Type: application/json" \

  -d '{

    "id": "resource-001",

    "title": "Emergency Contact List",

    "description": "List of emergency contacts",

    "url": "http://example.com/contacts.pdf",

    "uploaded\_by": "user-001"

  }'

# Get all resources

curl -X GET http://localhost:3000/resources

# Get a specific resource

curl -X GET http://localhost:3000/resources/resource-001

# Update a resource

curl -X PATCH http://localhost:3000/resources/resource-001 \

  -H "Content-Type: application/json" \

  -d '{

    "description": "Updated list of emergency contacts"

  }'

# Delete a resource

curl -X DELETE http://localhost:3000/resources/resource-001

```

**### 16. Responder Profiles**

```

POST    /responder-profiles      - Create a new responder profile

GET     /responder-profiles      - Get all responder profiles

GET     /responder-profiles/:id  - Get a specific responder profile

PATCH   /responder-profiles/:id  - Update a responder profile

DELETE  /responder-profiles/:id  - Delete a responder profile

```

**#### Example Requests**

```bash

# Create a responder profile

curl -X POST http://localhost:3000/responder-profiles \

  -H "Content-Type: application/json" \

  -d '{

    "id": "profile-001",

    "user\_id": "user-001",

    "specialization": "Medical",

    "certification": "Advanced First Aid"

  }'

# Get all responder profiles

curl -X GET http://localhost:3000/responder-profiles

# Get a specific responder profile

curl -X GET http://localhost:3000/responder-profiles/profile-001

# Update a responder profile

curl -X PATCH http://localhost:3000/responder-profiles/profile-001 \

  -H "Content-Type: application/json" \

  -d '{

    "certification": "Advanced First Aid & CPR"

  }'

# Delete a responder profile

curl -X DELETE http://localhost:3000/responder-profiles/profile-001

```

**### 17. Subscriptions**

```

POST    /subscriptions      - Create a new subscription

GET     /subscriptions      - Get all subscriptions

GET     /subscriptions/:id  - Get a specific subscription

PATCH   /subscriptions/:id  - Update a subscription

DELETE  /subscriptions/:id  - Delete a subscription

```

**#### Example Requests**

```bash

# Create a subscription

curl -X POST http://localhost:3000/subscriptions \

  -H "Content-Type: application/json" \

  -d '{

    "id": "sub-001",

    "user\_id": "user-001",

    "type": "Emergency Alerts",

    "district": "District A"

  }'

# Get all subscriptions

curl -X GET http://localhost:3000/subscriptions

# Get a specific subscription

curl -X GET http://localhost:3000/subscriptions/sub-001

# Update a subscription

curl -X PATCH http://localhost:3000/subscriptions/sub-001 \

  -H "Content-Type: application/json" \

  -d '{

    "type": "All Alerts"

  }'

# Delete a subscription

curl -X DELETE http://localhost:3000/subscriptions/sub-001

```

**### 18. System Settings**

```

POST    /system-settings      - Create a new system setting

GET     /system-settings      - Get all system settings

GET     /system-settings/:id  - Get a specific system setting

PATCH   /system-settings/:id  - Update a system setting

DELETE  /system-settings/:id  - Delete a system setting

```

**#### Example Requests**

```bash

# Create a system setting

curl -X POST http://localhost:3000/system-settings \

  -H "Content-Type: application/json" \

  -d '{

    "id": "setting-001",

    "key": "maintenance\_mode",

    "value": "false",

    "description": "System maintenance mode"

  }'

# Get all system settings

curl -X GET http://localhost:3000/system-settings

# Get a specific system setting

curl -X GET http://localhost:3000/system-settings/setting-001

# Update a system setting

curl -X PATCH http://localhost:3000/system-settings/setting-001 \

  -H "Content-Type: application/json" \

  -d '{

    "value": "true"

  }'

# Delete a system setting

curl -X DELETE http://localhost:3000/system-settings/setting-001

```

**### 19. Audit Logs**

```

POST    /audit-logs      - Create a new audit log

GET     /audit-logs      - Get all audit logs

GET     /audit-logs/:id  - Get a specific audit log

PATCH   /audit-logs/:id  - Update an audit log

DELETE  /audit-logs/:id  - Delete an audit log

```

**#### Example Requests**

```bash

# Create an audit log

curl -X POST http://localhost:3000/audit-logs \

  -H "Content-Type: application/json" \

  -d '{

    "id": "audit-001",

    "user\_id": "user-001",

    "action": "CREATE\_REPORT",

    "details": "Created emergency report report-001"

  }'

# Get all audit logs

curl -X GET http://localhost:3000/audit-logs

# Get a specific audit log

curl -X GET http://localhost:3000/audit-logs/audit-001

# Update an audit log

curl -X PATCH http://localhost:3000/audit-logs/audit-001 \

  -H "Content-Type: application/json" \

  -d '{

    "details": "Created emergency report report-001 with additional details"

  }'

# Delete an audit log

curl -X DELETE http://localhost:3000/audit-logs/audit-001

```

**## Common HTTP Status Codes**

- `200`: Success

- `201`: Created

- `400`: Bad Request (validation error)

- `404`: Not Found

- `500`: Internal Server Error

**## Notes**

1. All IDs must be unique within their respective modules

2. Foreign key fields (like `user\_id`, `report\_id`, etc.) must correspond to existing records

3. Date fields should be in ISO 8601 format (e.g., "2023-05-15T10:30:00Z")

4. Required fields are marked with `@IsNotEmpty()` in the DTOs

5. Some modules may have additional optional fields not shown in these examples

**Available Modules and Endpoints**

1. **Users** - POST /users, GET /users, GET /users/:id, PATCH /users/:id, DELETE /users/:id
2. **Roles** - POST /roles, GET /roles, GET /roles/:id, PATCH /roles/:id, DELETE /roles/:id
3. **Emergency Reports** - POST /emergency-reports, GET /emergency-reports, GET /emergency-reports/:id, PATCH /emergency-reports/:id, DELETE /emergency-reports/:id
4. **Threads** - POST /threads, GET /threads, GET /threads/:id, PATCH /threads/:id, DELETE /threads/:id
5. **Messages** - POST /messages, GET /messages, GET /messages/:id, PATCH /messages/:id, DELETE /messages/:id
6. **Community Posts** - POST /community-posts, GET /community-posts, GET /community-posts/:id, PATCH /community-posts/:id, DELETE /community-posts/:id
7. **District Services** - POST /district-services, GET /district-services, GET /district-services/:id, PATCH /district-services/:id, DELETE /district-services/:id
8. **Events** - POST /events, GET /events, GET /events/:id, PATCH /events/:id, DELETE /events/:id
9. **Feedback** - POST /feedback, GET /feedback, GET /feedback/:id, PATCH /feedback/:id, DELETE /feedback/:id
10. **Incident Logs** - POST /incident-logs, GET /incident-logs, GET /incident-logs/:id, PATCH /incident-logs/:id, DELETE /incident-logs/:id
11. **Notifications** - POST /notifications, GET /notifications, GET /notifications/:id, PATCH /notifications/:id, DELETE /notifications/:id
12. **Post Comments** - POST /post-comments, GET /post-comments, GET /post-comments/:id, PATCH /post-comments/:id, DELETE /post-comments/:id
13. **Post Likes** - POST /post-likes, GET /post-likes, GET /post-likes/:id, PATCH /post-likes/:id, DELETE /post-likes/:id
14. **Report Status History** - POST /report-status-history, GET /report-status-history, GET /report-status-history/:id, PATCH /report-status-history/:id, DELETE /report-status-history/:id
15. **Resources** - POST /resources, GET /resources, GET /resources/:id, PATCH /resources/:id, DELETE /resources/:id
16. **Responder Profiles** - POST /responder-profiles, GET /responder-profiles, GET /responder-profiles/:id, PATCH /responder-profiles/:id, DELETE /responder-profiles/:id
17. **Subscriptions** - POST /subscriptions, GET /subscriptions, GET /subscriptions/:id, PATCH /subscriptions/:id, DELETE /subscriptions/:id
18. **System Settings** - POST /system-settings, GET /system-settings, GET /system-settings/:id, PATCH /system-settings/:id, DELETE /system-settings/:id
19. **Audit Logs** - POST /audit-logs, GET /audit-logs, GET /audit-logs/:id, PATCH /audit-logs/:id, DELETE /audit-logs/:id