

# Disaster

## API Documenatation for the FLASK Backend of Disaster Relief Project

---

### INSERT

Contains all the supported json data for the endpoint /insert

---

### POST INSERT disaster\_events

http://127.0.0.1:5000/insert

```
CREATE TABLE disaster_events (  
  event_id INTEGER PRIMARY KEY AUTOINCREMENT,  
  event_name VARCHAR NOT NULL,  
  event_type VARCHAR NOT NULL,  
  location VARCHAR NOT NULL,  
  start_date DATE NOT NULL,  
  end_date DATE,  
  description TEXT  
);
```

#### Body raw (json)

---

json

```
{  
  "table": "disaster_events",  
  "event_name": "Flood",  
  "event_type": "Natural",  
  "location": "City A",  
  "start_date": "2024-09-15",  
  "end_date": "2024-09-17",  
  "description": "Severe flooding"  
}
```

---

### POST INSERT resources

http://127.0.0.1:5000/insert

http://127.0.0.1:5000/insert

```
CREATE TABLE resources (  
  resource_id INTEGER PRIMARY KEY AUTOINCREMENT,  
  resource_name VARCHAR NOT NULL,  
  resource_type VARCHAR NOT NULL,  
  quantity INTEGER,  
  availability_status VARCHAR NOT NULL,  
  event_id INTEGER,  
  FOREIGN KEY (event_id) REFERENCES disaster_events(event_id)  
);
```

### Body raw (json)

---

json

```
{  
  "table": "resources",  
  "resource_name": "Water Bottles",  
  "resource_type": "Supply",  
  "quantity": 500,  
  "availability_status": "Available",  
  "event_id": 1  
}
```

---

## POST INSERT volunteers

http://127.0.0.1:5000/insert

```
CREATE TABLE volunteers (  
  volunteer_id INTEGER PRIMARY KEY AUTOINCREMENT,  
  name VARCHAR NOT NULL,  
  contact_info VARCHAR NOT NULL,  
  skills VARCHAR,  
  availability_status VARCHAR NOT NULL,  
  event_id INTEGER,  
  FOREIGN KEY (event_id) REFERENCES disaster_events(event_id)  
);
```

### Body raw (json)

---

json

```
{  
  "table": "volunteers",  
  "name": "John Doe".  
}
```

```
"contact_info": "1234567890",
"skills": "Medical",
"availability_status": "Available",
"event_id": 1
}
```

---

## POST INSERT aid\_distribution

http://127.0.0.1:5000/insert

```
CREATE TABLE aid_distribution (
distribution_id INTEGER PRIMARY KEY AUTOINCREMENT,
event_id INTEGER NOT NULL,
resource_id INTEGER,
volunteer_id INTEGER,
quantity_distributed INTEGER NOT NULL,
distribution_date DATE NOT NULL,
location VARCHAR NOT NULL,
FOREIGN KEY (event_id) REFERENCES disaster_events(event_id),
FOREIGN KEY (resource_id) REFERENCES resources(resource_id),
FOREIGN KEY (volunteer_id) REFERENCES volunteers(volunteer_id)
);
```

### Body raw (json)

---

json

```
{
  "table": "aid_distribution",
  "event_id": 1,
  "resource_id": 1,
  "volunteer_id": 1,
  "quantity_distributed": 100,
  "distribution_date": "2024-09-16",
  "location": "Distribution Center A"
}
```

---

## POST INSERT incident\_reports

http://127.0.0.1:5000/insert

```
CREATE TABLE incident_reports (
report_id INTEGER PRIMARY KEY AUTOINCREMENT,
event_id INTEGER NOT NULL,
report_date DATE NOT NULL,
```

```
report_date DATE NOT NULL,  
description TEXT,  
reported_by VARCHAR,  
  
FOREIGN KEY (event_id) REFERENCES disaster_events(event_id)  
);
```

### Body raw (json)

---

json

```
{  
  "table": "incident_reports",  
  "event_id": 1,  
  "report_date": "2024-09-15",  
  "description": "Power outage reported",  
  "reported_by": "John Doe"  
}
```

---

## POST INSERT users

http://127.0.0.1:5000/insert

```
CREATE TABLE users (  
  user_id INTEGER PRIMARY KEY AUTOINCREMENT,  
  username VARCHAR NOT NULL,  
  password_hash VARCHAR NOT NULL,  
  role VARCHAR NOT NULL  
);
```

### Body raw (json)

---

json

```
{  
  "table": "users",  
  "username": "admin",  
  "password_hash": "hashed_password",  
  "role": "Administrator"  
}
```

---

## UPDATE

Contains all the supported json data for the endpoint /update

---

## POST UPDATE

http://127.0.0.1:5000/update

Same json format for all 6 tables

Body raw (json)

---

json

```
{
  "table": "disaster_events",
  "column": "location",
  "value": "City B",
  "condition_column": "event_id",
  "condition_value": 1
}
```

---

## SELECT

Contains all the supported json data for the endpoint /select

---

## POST GET disaster\_events

http://127.0.0.1:5000/select

Body raw (json)

---

json

```
{
  "table": "disaster_events"
}
```

---

## POST GET resources

http://127.0.0.1:5000/select

Body raw (json)

---

json

```
{  
  "table": "resources"  
}
```

---

**POST** GET volunteers

http://127.0.0.1:5000/select

Body raw (json)

---

json

```
{  
  "table": "volunteers"  
}
```

---

**POST** GET aid\_distribution

http://127.0.0.1:5000/select

Body raw (json)

---

json

```
{  
  "table": "aid_distribution"  
}
```

---

**POST** GET incident\_reports

http://127.0.0.1:5000/select

Body raw (json)

---

json

```
{
  "table": "incident_reports"
}
```

---

**POST** GET record by id

http://127.0.0.1:5000/select

Body raw (json)

---

json

```
{
  "table": "disaster_events",
  "record_id": 1
}
```

---

**DELETE**

Contains all the supported json data for the endpoint /delete

---

**POST** DELETE

http://127.0.0.1:5000/delete

Same json format for all 6 tables

Body raw (json)

---

json

```
{
  "table": "disaster_events",
  "column": "event_id"
}
```

```
column : event_id ,
```

```
"value": 1
```

```
}
```