

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,
description TEXT
);
```

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 volunteers

http://127.0.0.1:5000/update

Body raw (json)

json

```
{
  "table": "volunteers",
  "volunteer_id": 2,
  "name": "John Doe",
  "contact_info": "12234556",
  "skills": "First Aid, Logistics",
  "availability_status": "available",
  "event_id": 3
}
```

POST UPDATE record by id

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
}
```

POST Update disaster_events

http://127.0.0.1:5000/update

Body raw (json)

json

```
{
  "table": "disaster_events", // Replace with the actual table name
  "event_id": "3",           // Replace with the actual event ID
  "event_name": "Flood",     // Replace with the actual event name
  "event_type": "Natural Disaster", // Replace with the actual event type
  "location": "City Name",   // Replace with the actual location
  "start_date": "2024-09-01T00:00:00Z", // Replace with the actual start date in ISO 8601 format
  "end_date": "2024-09-02T00:00:00Z", // Replace with the actual end date in ISO 8601 format
  "description": "Description of the event" // Replace with the actual description
}
```

POST Update resources

http://127.0.0.1:5000/update

Body raw (json)

json

```
{
  "table": "resources", // Replace with the actual table name
  "resource_id": "2",    // Replace with the actual resource ID
  "resource_name": "Bottles", // Replace with the actual resource name
  "resource_type": "Supplies", // Replace with the actual resource type
  "quantity": 100,       // Replace with the actual quantity
  "availability_status": "Available", // Replace with the actual availability status
  "event_id": "12345"    // Replace with the actual event ID associated with
}
```

POST Update incident_reports

http://127.0.0.1:5000/update

Body raw (json)

json

```
{
  "table": "incident_reports", // Replace with the actual table name
```

```
"report_id": "2", // Replace with the actual report ID
"event_id": "12345", // Replace with the actual event ID associated with t
"report_date": "2024-09-01T00:00:00Z", // Replace with the actual report date in ISO 8601

"description": "Incident description goes here", // Replace with the actual description
"reported_by": "John Doe" // Replace with the name of the person reporting
}
```

POST Update aid_distribution

http://127.0.0.1:5000/update

Body raw (json)

json

```
{
  "table": "aid_distribution", // Replace with the actual table name
  "distribution_id": "2", // Replace with the actual distribution ID
  "event_id": "12345", // Replace with the actual event ID associated wi
  "resource_id": "res678", // Replace with the actual resource ID being distr
  "volunteer_id": "volunteer001", // Replace with the actual volunteer ID who distr
  "quantity_distributed": 50, // Replace with the actual quantity distributed
  "distribution_date": "2024-09-01T00:00:00Z", // Replace with the actual distribution date
  "location": "Community Center" // Replace with the actual location of the distri
}
```

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",  
  "value": 1  
}
```