

# Local Enterobase Installation Flowchart

## Input/Output Key

Fm = Form

E = Email


Fi = File

C = Command in Terminal

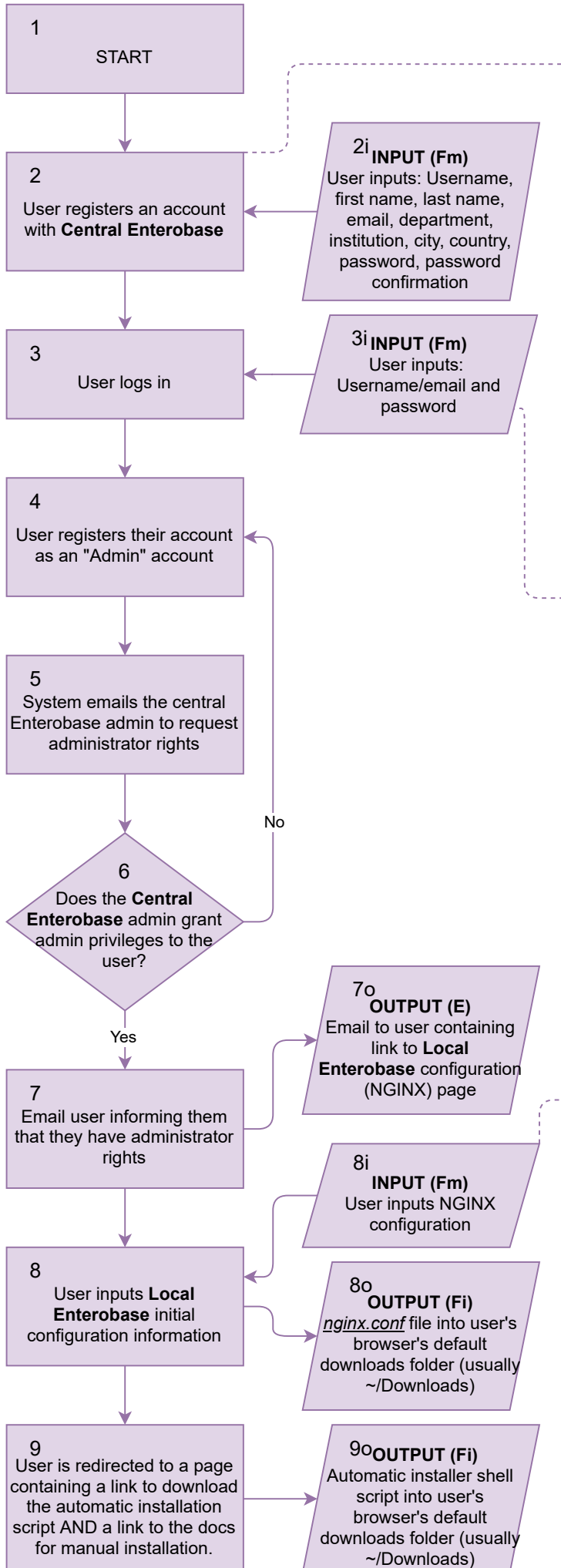
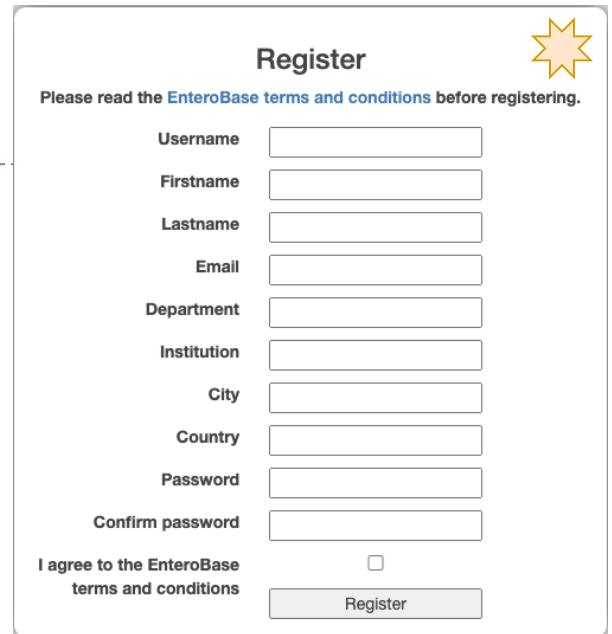
T = Terminal Output


DB = Database

# Stage 1

 = Functionality already exists in Central Enterobase

## Central Enterobase Administration

**Register** 

Please read the [EnteroBase terms and conditions](#) before registering.

Username

Firstname

Lastname

Email

Department

Institution

City

Country

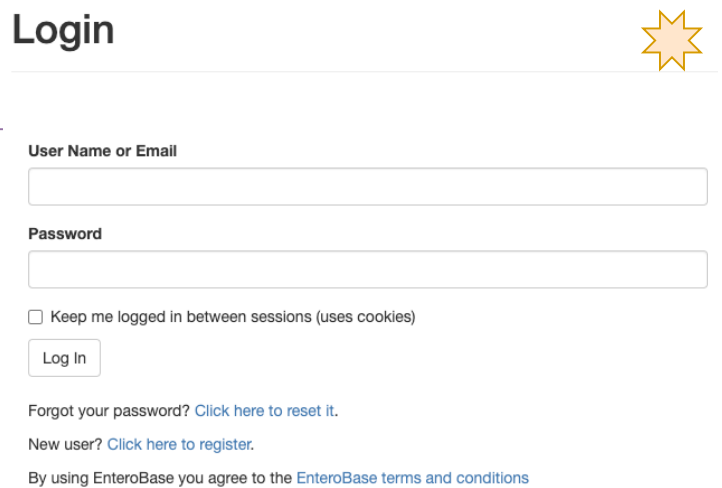
Password


Confirm password

I agree to the EnteroBase terms and conditions ☐

Figure 1A

## Login



**Login** 

User Name or Email

Password

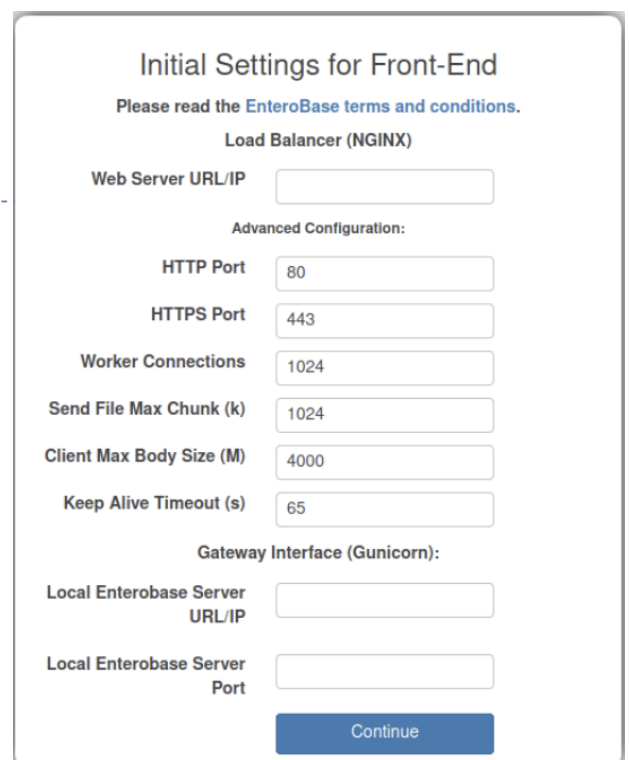
☐ Keep me logged in between sessions (uses cookies)

Forgot your password? [Click here to reset it.](#)

New user? [Click here to register.](#)

By using EnteroBase you agree to the [EnteroBase terms and conditions](#)

Figure 1B



**Initial Settings for Front-End**

Please read the [EnteroBase terms and conditions](#).

**Load Balancer (NGINX)**

Web Server URL/IP

**Advanced Configuration:**

HTTP Port

HTTPS Port

Worker Connections

Send File Max Chunk (k)

Client Max Body Size (M)

Keep Alive Timeout (s)

**Gateway Interface (Gunicorn):**

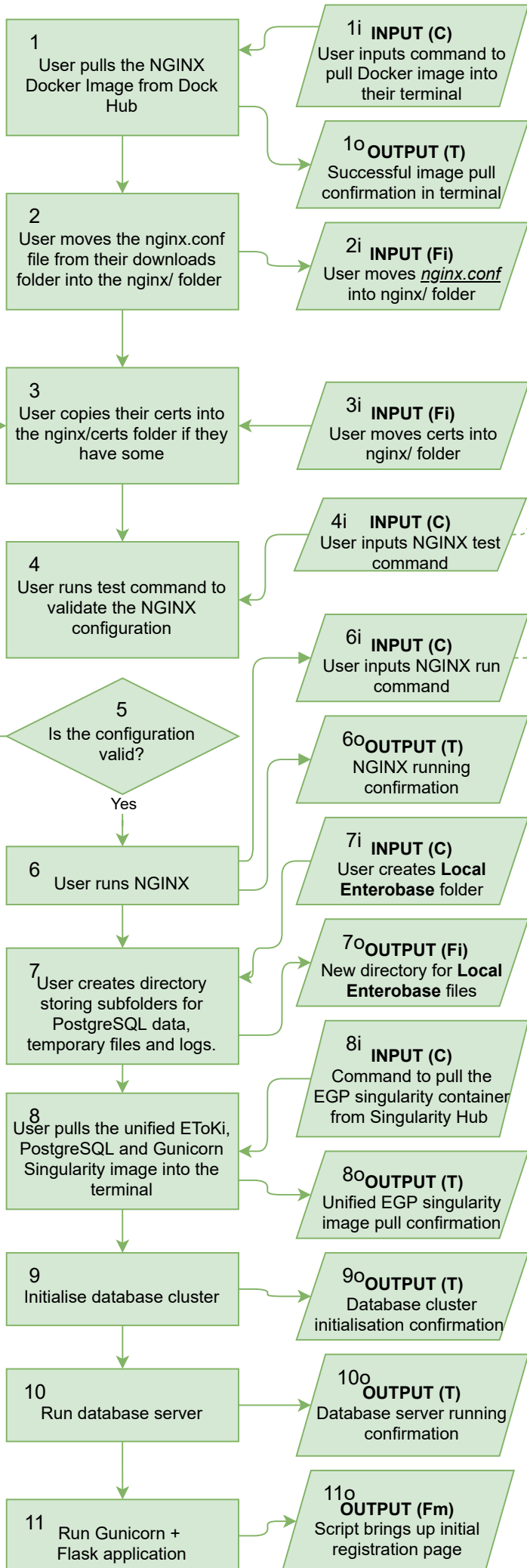
Local Enterobase Server URL/IP

Local Enterobase Server Port

Figure 1C

# Stage 2 (manual)

## Manual Installation of Dependencies



```

events {
    worker_connections 1024;
}

http {
    sendfile on;
    sendfile_max_chunk 1m;
    tcp_nopush on;
    client_max_body_size 3000M;
    keepalive_timeout 65;

    server {
        # listen on port 80 (http)
        listen 80;
        #please change the following using your server uri, e.g. myserver.com
        server_name replaced_by_your_server_uri;
        #location / {
            # redirect any requests to the same URL but on https
            #please change the following using your server uri, e.g. myserver.com
            return 301 https://replaced_by_your_server_uri$request_uri;
        }
    }
}
  
```

Figure 2A

### Testing and Running

- To then test the nginx.conf file execute the following command. As these commands use Docker they require root privileges to execute.

```
sudo docker run --rm -p 80:80 -p 443:443 -v $HOME/nginx:/home/nginx_us
```

- To run nginx use the following command

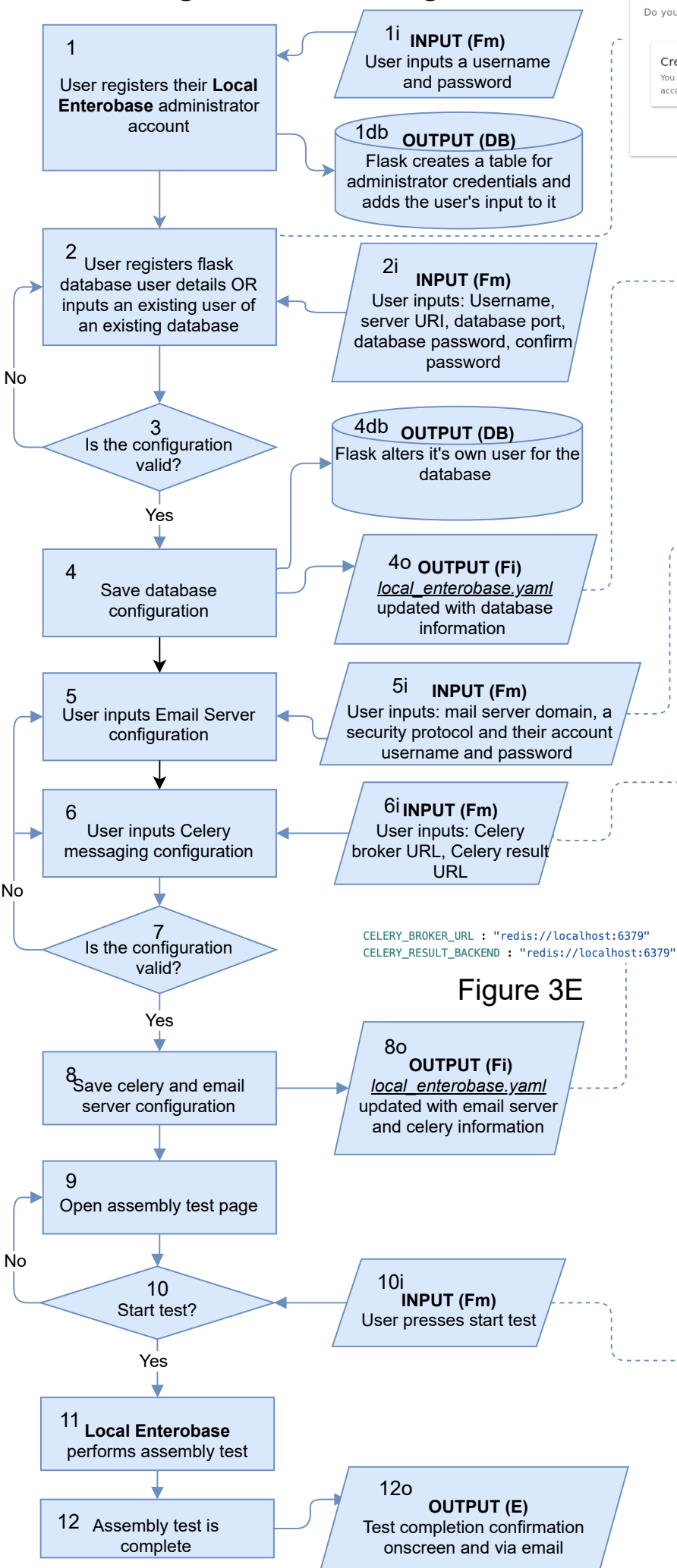
```
sudo docker run --rm -p 80:80 -p 443:443 -v $HOME/nginx:/home/nginx_us
```

Figure 2B

[https://bitbucket.org/enterobase/local\\_enterobase/src/images/docs/installation/nginx.rst](https://bitbucket.org/enterobase/local_enterobase/src/images/docs/installation/nginx.rst)

# Stage 3

## Admin Registration & Configuration



General Database Choice Database Config Email Server Messaging

### Choose the database you want to use

Do you want to create a new database in the singularity container or connect to an existing database?

Create a new database.  
You will be required to create a PostgreSQL admin account and a flask user.

Connect to an existing database.  
You will be required to enter a flask user, your database URI and a port number.

PREVIOUS

Figure 3A

```

DATABASE_USER : postgres
DATABASE_PASSWORD: local_password
DATABASE_SERVER_URI : localhost
DATABASE_PORT : 5432
  
```

Figure 3B

General Database Choice Database Config Email Server Messaging

### Email Server Configuration

Please configure the email server that Local Enterobase will use to send emails.

Mail Server domain  
The Name/IP address of the mail server that will be used to send the emails

☐ Enable Transport Layer Security (TLS)

☐ Enable Secure Sockets Layer Security (SSL)

**Unencrypted Communication**  
Emails will be sent without authentication.

Mail server port number  
25  
This value is determined by the chosen encryption protocols.

Mail account username  
The account that will act as a communication point for local enterobase. Local Enterobase will send emails as this account.

Mail account password

PREVIOUS CONTINUE

Figure 3C

General Database Choice Database Config Email Server Messaging

### Messaging Configuration (Celery)

**Do not change these fields unless you are an expert.**

This configuration will work with the default singularity installation but will need to be changed if you do a manual installation.

Celery broker URL  
redis://localhost:6379  
Please enter the URL and port number of the Broker you have selected to transport messages.

Celery result URL  
redis://localhost:6379  
Please enter the URL and port number of the server where the results are stored.

Number of allowed processes (simultaneous instances of enterobase running)  
0  
The default value is a recommendation based on your system's specifications.

RESET TO DEFAULT VALUES PREVIOUS FINISH CONFIGURATION

Figure 3D

1 Start Configuration Test

### Configuration Complete

Before we can activate your local installation we need to test your configuration settings. This will involve downloading and assembling two short read files.

This test should take approximately 10 minutes to complete.

You will see the progress of each stage in the test as it is carried out and we will email you once the results are available.

Press the "Start Test" button to begin the test.

START TEST

2 Downloading short read files.

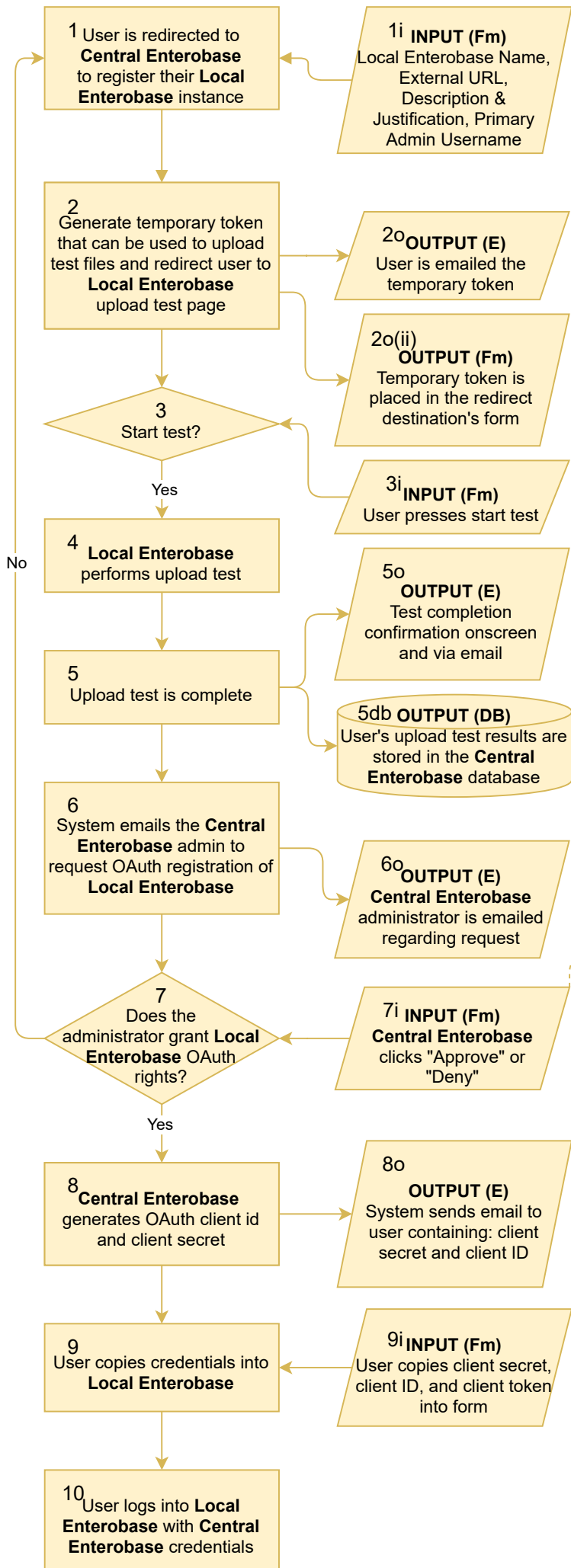
3 Performing assembly.

4 Verifying Results

Figure 3F

# Stage 4

## Register Local Enterobase with Central Enterobase



### Local Enterobase Instance Registration

Please read the [EnteroBase terms and conditions](#).

Local Enterobase Name

External URL

Description & Justification (400 words max)

Contact Name

Contact Email

Department

Institution

City

Country

Figure 4A

### Approve Request

Please approve or deny the Local Enterobase Client registration request.

### Local Enterobase Client Details

The fields below contain the Local Enterobase Client details of the request.

Local Enterobase Name

External URL

Description & Justification

Contact Name

Contact Email

Department

Institution

City

Country

### User Details

The following fields contain details about the user who made the request.

Username

Firstname

Lastname

Email

Department

Institution

City

Country

Figure 4B