**Tables:**

Main tables:

Specimen

Label

Process

Other tables:

ScientificName

Country

State

ProcessTypes

User

**Definition of the main tables:**

CREATE TABLE "Specimen"

(

id timestamp with time zone NOT NULL, -- Date and time of creation of the record

"HumainUser" integer,

project character varying(100), -- Digitization project of the Humain user

filename character varying(200), -- Path + File of the original image

CONSTRAINT "PK\_Specimen" PRIMARY KEY (id)

)

CREATE TABLE "Label"

(

id timestamp with time zone NOT NULL, -- Same id than Specimen

"scientificName" integer, -- ID of the Scientific Name in its table

author character varying(100), -- Author of the scientific name

country integer, -- ID of the country in its table

state integer, -- ID of the State in its table

county character varying(100),

location character varying(300), -- Geographic description

habitat character varying(300), -- Specimen's habitat and description

"collectorName" character varying(100),

"collectorNumber" character varying(20),

year integer,

month integer,

day integer,

CONSTRAINT "PK\_Label" PRIMARY KEY (id)

)

CREATE TABLE "Process"

(

id timestamp with time zone NOT NULL, -- Same Specimen ID

"srcImage" character varying(200) NOT NULL,

type integer NOT NULL, -- Type of process: first general process, date process, etc.

field character varying(100),

value character varying(300),

accepted boolean,

date date NOT NULL,

"humainUser" integer NOT NULL,

CONSTRAINT "PK\_Process" PRIMARY KEY (id, type, date, "srcImage", "humainUser")

)

**Folders hierarchy (images):**

project → idSpecimen

For example, valid files would be:

FloridaLife/54387643677/NY\_00198945.jpg

FloridaLife/54387643677/cropped01.jpg

**Workflow:**

1. The user registers in the system

2. The user loads an image or selects one already stored

3. He/She/It initiates one process (Human-intelligent or Machine-intelligent)

a) The process generates a result and, depending on the type, it is automatically accepted or validated by the user.

b) The data in Label is updated if the result is accepted

4. The user logs out