Projet Conception, Projet Synthèse

*NAuction*

Par Nathaelle Fournier et Quoc Huan Tran

420-C61-IN PROJET SYNTHÈSE

Présenté à Jean-Christophe Demers

Technique de l’informatique

Cégep du Vieux Montréal

2 mars 2023

Table des matières

[Maquettes 3](#_Toc127454720)

[Conception UML 4](#_Toc127454721)

[Structure de données externes 6](#_Toc127454722)

[Contraintes & Éléments de Conception 10](#_Toc127454723)

[Interface utilisateur 10](#_Toc127454724)

[Structure de données 10](#_Toc127454725)

[Patrons de conception 11](#_Toc127454726)

[Expressions régulières 12](#_Toc127454727)

[Algorithme 12](#_Toc127454728)

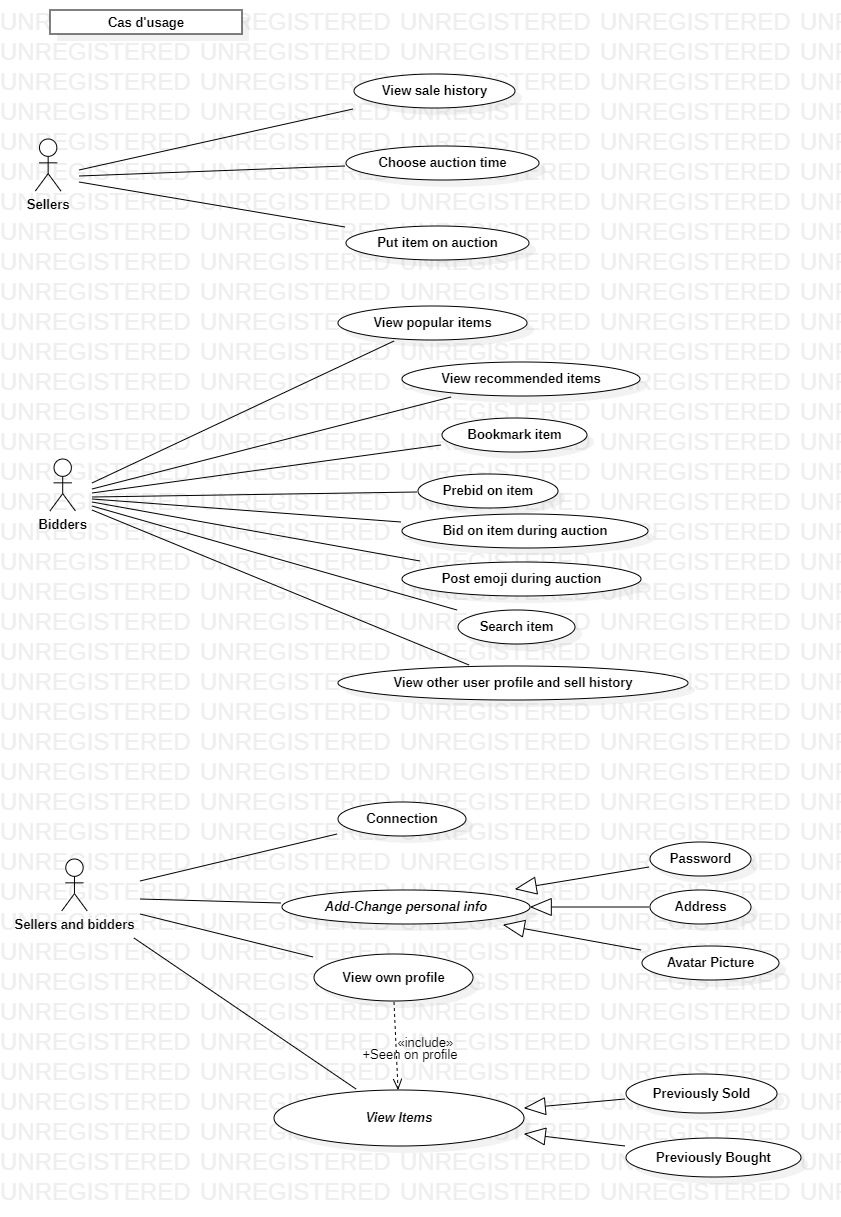
[Mathématique 12](#_Toc127454729)

[Veille Technologique 12](#_Toc127454730)

# Maquettes



# Conception UML



# Structure de données externes

Nous utiliserons une base de données basée sur PostgreSQL. Voici la première ébauche de code pour celle-ci.

CREATE TYPE "status" AS ENUM (

'waiting',

'in\_auction',

'sold'

);

CREATE TYPE "tag" AS ENUM (

'Antique',

'Art & Sculture',

'Automobile',

'Bijoux & Accessoire',

'Collection',

'Livre & Manuscrit',

'Meuble',

'Monnaie',

'Musique',

'Sport',

'Vaisselle & Coutellerie',

'Vêtement'

);

CREATE TABLE "users" (

"id" INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

"username" varchar(32) UNIQUE NOT NULL,

"name" varchar(32),

"lastname" varchar(32),

"email" varchar(128) UNIQUE NOT NULL,

"password" varchar(132) NOT NULL,

"dateofbirth" timestamp NOT NULL

);

CREATE TABLE "address" (

"id" INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

"id\_user" int NOT NULL,

"street" varchar(128) NOT NULL,

"apt" int DEFAULT null,

"city" varchar(32) NOT NULL,

"country" VARCHAR(32) NOT NULL,

"postal\_code" CHAR(6) NOT NULL

);

CREATE TABLE "items" (

"id" INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

"name" VARCHAR(32) NOT NULL,

"description" VARCHAR(256) DEFAULT '',

"current\_status" status NOT NULL,

"bid\_count" int DEFAULT 0,

"min\_increase" numeric(5,2) DEFAULT 1,

"id\_seller" int NOT NULL,

"auction\_on" timestamp UNIQUE NOT NULL,

"room" int

);

CREATE TABLE "bought\_items" (

"id\_user" INT NOT NULL,

"id\_seller" INT NOT NULL,

"id\_item" INT UNIQUE NOT NULL,

"bought\_on" timestamp

);

CREATE TABLE "tag\_list" (

"id\_item" INT,

"id\_tag" tag

);

CREATE TABLE "bids" (

"id\_item" int NOT NULL,

"id\_user" int NOT NULL,

"amount" numeric(,2) NOT NULL,

"submited\_on" timestamp NOT NULL

);

COMMENT ON COLUMN "items"."room" IS 'auction\_on & room must be unique';

COMMENT ON COLUMN "bids"."amount" IS 'must be higher then precious price with the same id\_item';

ALTER TABLE "address" ADD FOREIGN KEY ("id\_user") REFERENCES "users" ("id");

ALTER TABLE "tag\_list" ADD FOREIGN KEY ("id\_item") REFERENCES "items" ("id");

ALTER TABLE "bids" ADD FOREIGN KEY ("id\_item") REFERENCES "items" ("id");

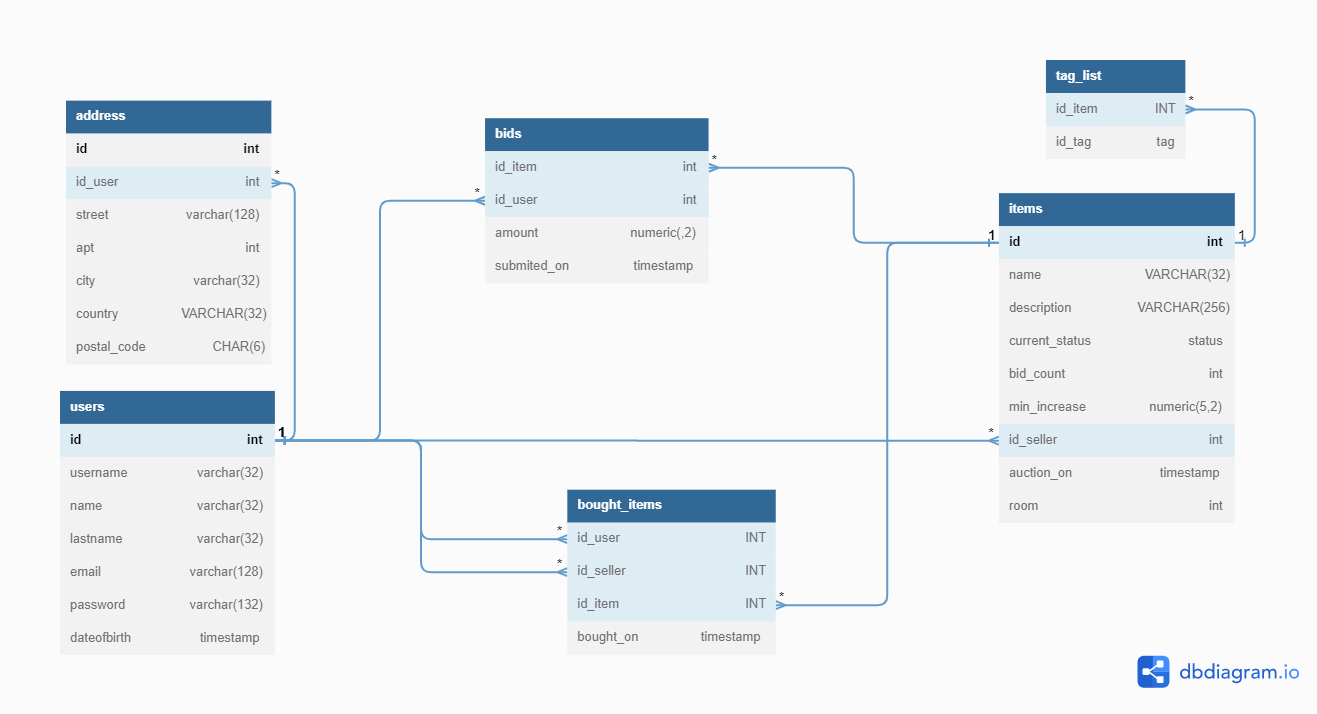
ALTER TABLE "bids" ADD FOREIGN KEY ("id\_user") REFERENCES "users" ("id");

ALTER TABLE "items" ADD FOREIGN KEY ("id\_seller") REFERENCES "users" ("id");

ALTER TABLE "bought\_items" ADD FOREIGN KEY ("id\_seller") REFERENCES "users" ("id");

ALTER TABLE "bought\_items" ADD FOREIGN KEY ("id\_user") REFERENCES "users" ("id");

ALTER TABLE "bought\_items" ADD FOREIGN KEY ("id\_item") REFERENCES "items" ("id");



# Contraintes & Éléments de Conception

## Interface utilisateur

## Structure de données

## Patrons de conception

## Expressions régulières

## Algorithme

## Mathématique

## Veille Technologique