

Abdul-THU-5P 4

Assignment 3

Tutor - Abdul Obeid

Jackson Hall – N10504915

Justin Hughes – N10206191

Trần Vũ Nhất Nam – N10306234

Website

Website Access

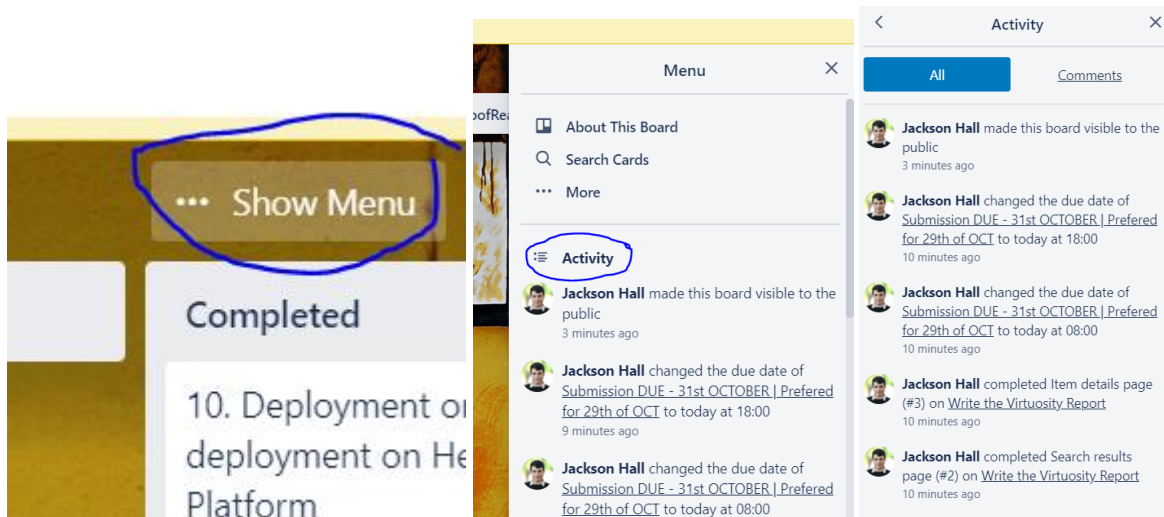
Link - <https://virtuosity.herokuapp.com/>

Trello

Trello Board Access

Link - <https://trello.com/b/Sv4KnJvf/abdul-thu-5p-4-iab207-assignment-3-due-31st-october>

Remember to check activities



GitHub

Github Access

Link - <https://github.com/HappilyIgnorant/IFB207-Assignment3>

Demonstration

Landing page (#1)

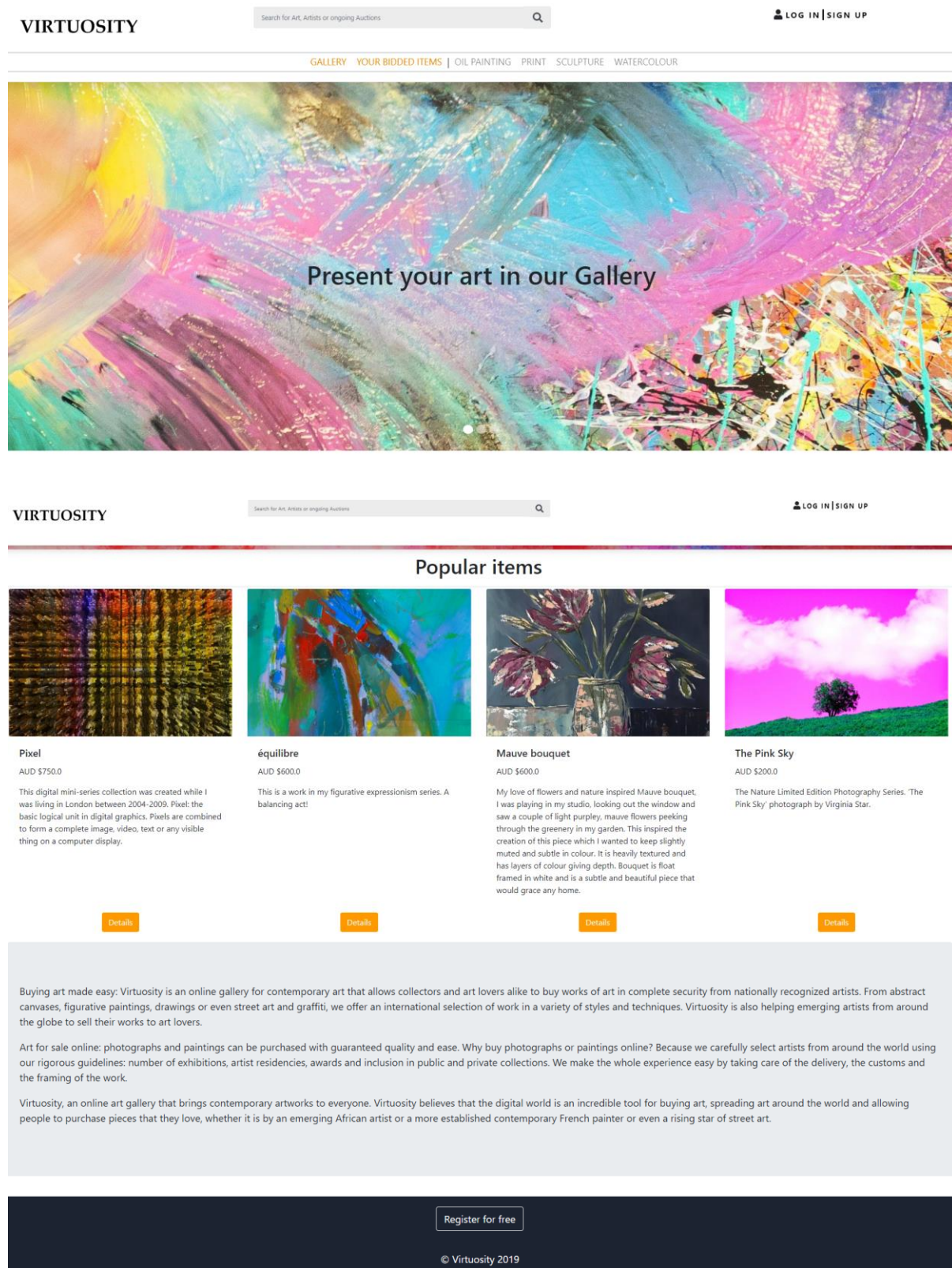


Figure 1 – Main page / Landing

Landing Page Description

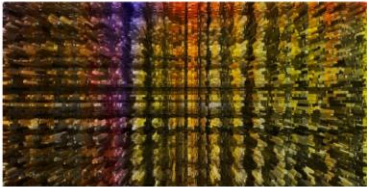
This is the initial page that the user first encounters, the layout did change from the conceptual HTML in Assignment 2 to now as we incorporate elements required by the specification.

Search results page (#2)

VIRTUOSITY [LOG IN](#) | [SIGN UP](#)


[GALLERY](#) [YOUR BIDDED ITEMS](#) | [OIL PAINTING](#) [PRINT](#) [SCULPTURE](#) [WATERCOLOUR](#)

GALLERY




Pixel
Price: \$750.0
Status: Available

This digital mini-series collection was created while I was living in London between 2004-2009. Pixel: the basic logical unit in digital graphics. Pixels are combined to form a complete image, video, text or any visible thing on a computer display.



équilibré
Price: \$600.0
Status: Available

This is a work in my figurative expressionism series. A balancing act!



Mauve bouquet
Price: \$600.0
Status: Available


My love of flowers and nature inspired Mauve bouquet, I was playing in my studio, looking out the window and saw a couple of light purple, mauve flowers peeking through the greenery in my garden. This inspired the creation of this piece which I wanted to keep slightly muted and

Figure 2 – Gallery page

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[GALLERY](#) [YOUR BIDDED ITEMS](#) | [OIL PAINTING](#) [PRINT](#) [SCULPTURE](#) [WATERCOLOUR](#)

RESULTS



Lake land
Price: \$1400.0
Status: SOLD

Abstract lakes in the south west Australia. The sheer diversity of Western Australia's climate and geography has created some of the most unique rivers, lakes and wetlands on Earth - havens to staggering variety of wildlife, and meccas for seekers of waterport thrills and wilderness experiences.

Figure 3 – Results page with Lake as result

Search results description

From any page on the website, the search bar function can be used to find any item with a specific name such as Lake land by using either Lake or land in the search bar.

Item details page (#3)


VIRTUOSITY

Search for Art, Artists or ongoing Auctions

LOG IN | SIGN UP

[GALLERY](#) [YOUR BIDDED ITEMS](#) | [OIL PAINTING](#) [PRINT](#) [SCULPTURE](#) [WATERCOLOUR](#)

RESULTS



[Lake land](#)


Price: \$1400.0

Status: SOLD

Abstract lakes in the south west Australia. The sheer diversity of Western Australia's climate and geography has created some of the most unique rivers, lakes and wetlands on Earth - havens to staggering variety of wildlife, and meccas for seekers of waterport thrills and wilderness experiences

Figure 3 – Results page with Lake as result

RESULTS



[Lake land](#)

Price: \$1400.0

Status: SOLD

Abstract lakes in the south west Australia. The sheer diversity of Western Australia's climate and geography has created some of the most unique rivers, lakes and wetlands on Earth - havens to staggering variety of wildlife, and meccas for seekers

Figure 4 – Select the Lake Land link



Lake land

Seller Name:
Bruce Wayne

Price:
AUD \$1400.0

Category:
Oil Painting

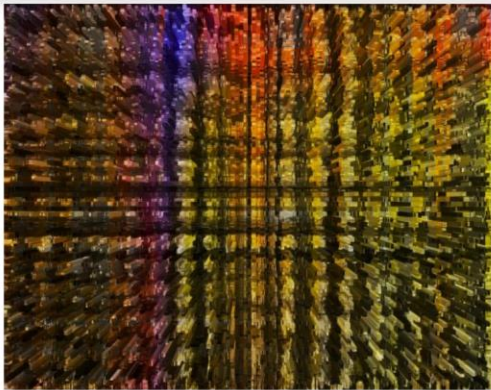
Status:
SOLD ON 30/10/2019

Artwork Description

Abstract lakes in the south west Australia. The sheer diversity of Western Australia's climate and geography has created some of the most unique rivers, lakes and wetlands on Earth - havens to staggering variety of wildlife, and meccas for seekers of watersport thrills and wilderness experiences.

Figure 5 – Items details page Sold

Note this item had been sold on the 30/10/2019 and I am unable to place any bids on this item.



Pixel

Seller Name:
William Tran

Price:
AUD \$750.0

Category:
Print

Status:
AVAILABLE

Interested in this item? [Login](#) to bid.

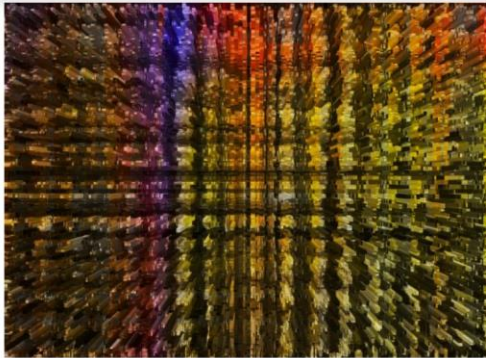
Artwork Description

This digital mini-series collection was created while I was living in London between 2004-2009. Pixel; the basic logical unit in digital graphics. Pixels are combined to form a complete image, video, text or any visible thing on a computer display.

Register for free

Figure 6 – Items details page Available

This item is currently available for \$750 AUD to be bid, yet the user must log in.



Pixel

Seller Name:

William Tran

Category:[Print](#)**Price:**

AUD \$750.0

Status:

AVAILABLE

[Bid](#)

Artwork Description

This digital mini-series collection was created while I was living in London between 2004-2009. Pixel: the basic logical unit in digital graphics. Pixels are combined to form a complete image, video, text or any visible thing on a computer display.

[Register for free](#)

© Virtuosity 2019

Figure 7 – Items details page Available after logging in

Now the user is able to place a bid, so they select bid and the option to bid changes to show that the user had placed a bid.

Status:**AVAILABLE**[Bid Placed](#)

Seller Manage Item page (#4)



Figure 8 – Any page / Navbar Select SELL

(After logging in, select SELL to be brought to the seller side of the website)



Figure 9 – Any Page / Seller Nav Bar

From here you want to select “YOUR INVENTORY” to get to the seller’s page full of items

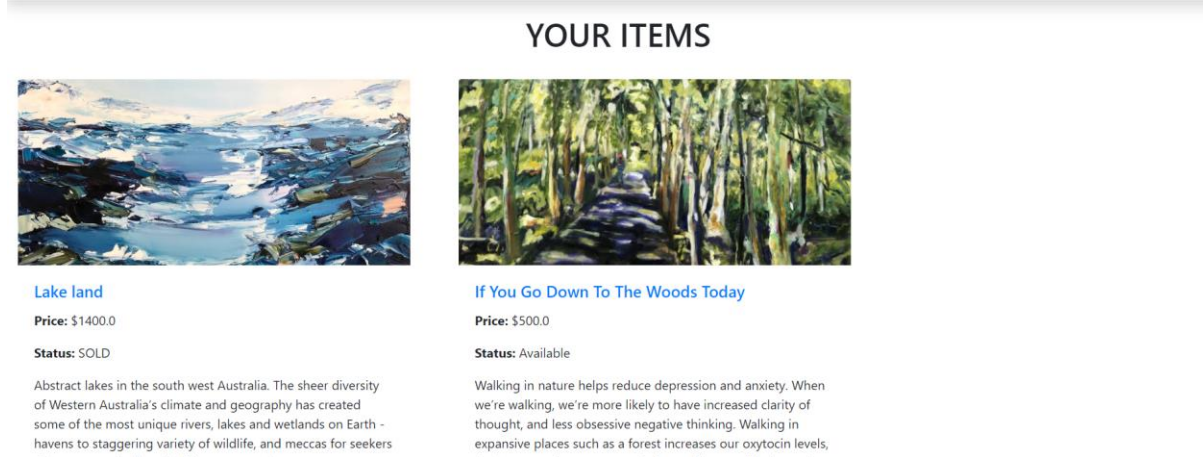


Figure 10 – Your items page

From here you can see two items, one had already been sold “Lake Land” this case we wish to look at “If You Go Down To The Woods Today”



If You Go Down To The Woods Today

Seller Name:

Bruce Wayne

Price:

AUD \$500.0

Category:

Oil Painting

Status:

AVAILABLE

Manage this item

Artwork Description

Walking in nature helps reduce depression and anxiety. When we're walking, we're more likely to have increased clarity of thought, and less obsessive negative thinking. Walking in expansive places such as a forest increases our oxytocin levels, the hormone that promotes feelings of love, well being and connectedness.

Figure 11 – Item Details for Seller Account



If You Go Down To The Woods Today

Walking in nature helps reduce depression and anxiety. When we're walking, we're more likely to have increased clarity of thought, and less obsessive negative thinking. Walking in expansive places such as a forest increases our oxytocin levels, the hormone that promotes feelings of love, well being and connectedness.

Bidders: 2 Bids: 2 Date Posted: 24/10/2019

Only current bids are shown (not bidders maximum) these results may change during the last 24 hours of a bid where automatic bid generation can be created before the auction ends, this means that only then will you see the maximum bid. [Click here to learn more about bidding.](#)

Date	Time	First Name	Last Name	Email	Contact Number	Select
31/10/2019	03:41:03	Steve	Irwin	steve@crikey.com	1600655506	Select
31/10/2019	01:43:53	Alexander	Seal	alexander@mail.com	0481880395	Select

Figure 12 – Manage Item page

From here you can see the information about that product. We can see two bids had already been placed on the item both of which occurred on the same day, following the US time zone as that is where the server is hosted.

Updating Sale Information (#5)

VIRTUOSITY Search for Art, Artists or ongoing Auctions **SELL | BUY** **BRUCE WAYNE** | **LOG OUT**

GALLERY **YOUR INVENTORY** **SALE HISTORY** | **PRICING** **ORDERS** **FINANCE** **OUR SERVICES**

Bidders: 2 **Bids: 2** **Date Posted: 24/10/2019**

Only current bids are shown (not bidders maximum) these results may change during the last 24 hours of a bid where automatic bid generation can be created before the auction ends, this means that only then will you see the maximum bid. [Click here to learn more about bidding.](#)

Date	Time	First Name	Last Name	Email	Contact Number	Select
31/10/2019	03:41:03	Steve	Irwin	steve@crikey.com	1600655506	Select
31/10/2019	01:43:53	Alexander	Seal	alexander@mail.com	0481880395	Select

If You Go Down To The Woods Today

Walking in nature helps reduce depression and anxiety. When we're walking, we're more likely to have increased clarity of thought, and less obsessive negative thinking. Walking in expansive places such as a forest increases our oxytocin levels, the hormone that promotes feelings of love, well being and connectedness.

Figure 12 – Manage Item page

This case there is a second bid With Steve Irwin, and I decide he should receive the item due to his bid.

Sell If You Go Down To The Woods Today to Steve Irwin?

Would you like to sell your artwork If You Go Down To The Woods Today to Steve Irwin?

If yes, select **Confirm**. Otherwise, select **Cancel**.

By selecting **Confirm**, you agree to organise delivery with the customer. This item will be marked as **SOLD**.

Cancel **Confirm**

Figure 13 – Bid Confirmation popup

SALES HISTORY

**If You Go Down To The Woods Today**

Walking in nature helps reduce depression and anxiety. When we're walking, we're more likely to have increased clarity of thought, and less obsessive negative thinking. Walking in expansive places such as a forest increases our oxytocin levels, the hormone that promotes feelings of love, well being and connectedness.

Sale date: 30/10/2019

**Lake land**

Abstract lakes in the south west Australia. The sheer diversity of Western Australia's climate and geography has created some of the most unique rivers, lakes and wetlands on Earth - havens to staggering variety of wildlife, and meccas for seekers of watersport thrills and wilderness experiences.

Sale date: 31/10/2019

Sold To: William Tran


Figure 14 – Sales history

Once Confirming the bid, the user will be taken to the Sales history page as confirmation.

Item creation form (#6)

VIRTUOSITY

Search for Art, Artists or ongoing Auctions

SELL | BUY |  BRUCE WAYNE | LOG OUT

GALLERY

YOUR INVENTORY

SALE HISTORY

|

PRICING

ORDERS

FINANCE

OUR SERVICES

SELL AN ITEM

Title:

75 character(s) remaining

Category:


Oil Painting

Price:

\$ - Value in AUD

Description:

5000 character(s) remaining



Images are essential when attracting potential buyers. It is recommended to have truthful and many quality photographs from various angles for the best representation of your item.

Choose File

No file chosen

Choose File

No file chosen

Choose File

No file chosen

Choose File

No file chosen

Choose File

No file chosen

Post

Figure 15 – Item Creation

From here the user is able to create a listing, changing the Title, Category, Listed Price, Description and even selecting a picture to use. Selecting Choose file will open up Windows Explorer.

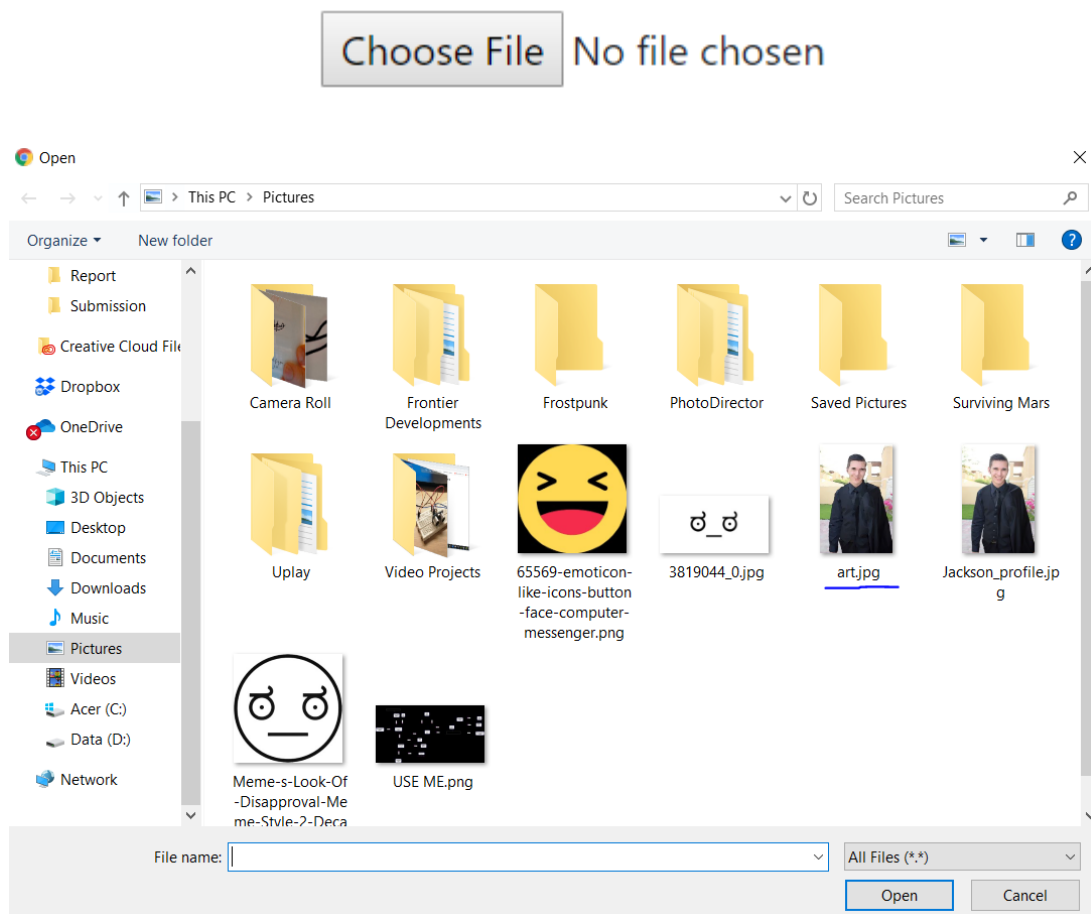


Figure 16 – Windows Explorer

From here I get to choose which image I will use as an example. Here I want to use Art.jpg

Choose File

 art.jpg

VIRTUOSITY

Search for Art, Artists or ongoing Auctions

SELL | BUY BRUCE WAYNE LOG OUT

GALLERY YOUR INVENTORY SALE HISTORY | PRICING ORDERS FINANCE OUR SERVICES

SELL AN ITEM

Title: 75 character(s) remaining

Category:

Price:

Description: 5000 character(s) remaining

Post

Images are essential when attracting potential buyers. It is recommended to have truthful and many quality photographs from various angles for the best representation of your item.

Choose File

 art3.jpg

Figure 17 – Item Create
Selecting Post will create the listing.

VIRTUOSITY

Search for Art, Artists or ongoing Auctions

SELL | BUY BRUCE WAYNE LOG OUT

GALLERY YOUR INVENTORY SALE HISTORY | PRICING ORDERS FINANCE OUR SERVICES

YOUR ITEMS

Lake land

Price: \$1400.0

Status: SOLD

Abstract lakes in the south west Australia. The sheer diversity of Western Australia's climate and geography has created some of the most unique rivers, lakes and wetlands on Earth - havens to staggering variety of

Test

Price: \$123.0

Status: Available

A character from Fate Grand/Order

Picture of myself

Price: \$15.0

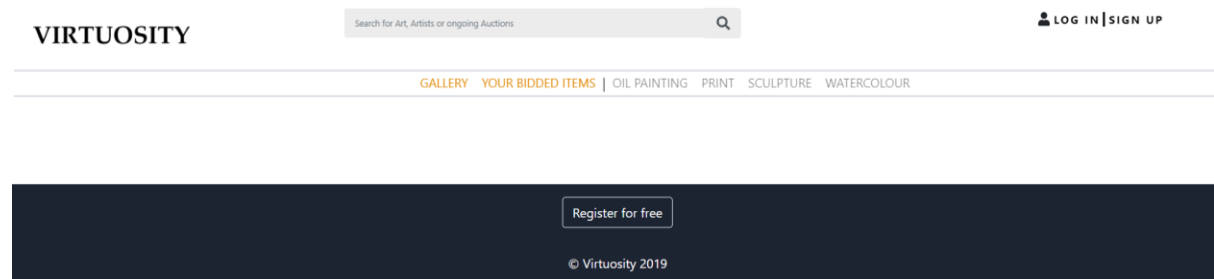
Status: Available

This is a picture of team member Jackson Hall

Figure 18 – Your Items page

Here is evidence that the item had been created after the user is redirected to their items page, they can see all of their items and the latest created item, this acts as an additional form of confirmation.

User registration page (#7)



By Selecting SIGN UP on the navbar of every page, this allows the user to create their account. Alternatively using the registration at the footer of the page works as well.

Register:

First Name

Last Name

Email Address

Contact Number

Password

Confirm Password

NEXT

Register:

First Name

Jackson

Last Name

Hall

Email Address

jackson@mail.com

Contact Number

0412345678911

Password

Confirm Password

NEXT

Register:

About you

My name is Jackson and this is a sample account

Figure 20 – Registration page

This page is where the user is first introduced when creating their account, after they fill in the fields, they are taken to the next stage of the carousel is the description which is not mandatory.

	id [PK] integer	email character varying (100)	password_hash character varying (255)	first_name character varying (100)	last_name character varying (100)	profile character varying (
1	9	4@gmail.com	sha256\$Rh4UZPyRS\$4cc4f41f670d6fe02e85488677e9c5e40589f626607b...	Neutral	Being	Hopefully my last t
2	1	jackson@hallys.net	sha256\$YralZpbx\$595b3f9616c3faf85a21823f9559faf082d232e34cba0a...	Jackson	Hall	blah
3	3	1@gmail.com	sha256\$0YwTurGD\$1ac4085d1ff9c5e7e92ddba397885e04ca930514e0e...	Justin	Hughes	I am lit.
4	4	test@gmail.com	sha256\$CxpWgZKz\$9d4d0771088c17b79751684f12b570329b9f59093fc...	William	Tran	Nothing
5	6	2@gmail.com	sha256\$9q4MeOXB\$36f91f2b5bfab72e601e0a7fadb9085215f320bfc787...	Bad	Boi	[null]
6	8	3@gmail.com	sha256\$PL3TKVly\$914838a07552feb3ca0d4963fab11b9559a89c990f9...	Good	Gal	Plz work.
7	10	a1234@gmail.com	sha256\$B7s2Wvi\$50231109c5591fc0ff72ba75f7c473a65a80c2404d32...	New	Account	

```
password_hash=generate_password_hash(password, method='sha256'))
```

Figure 21 – Database and code

It must be noted that the password that the user creates on the Registration form is automatically hashed and stored within the database, this means it becomes unreadable to those with access to the database.

VIRTUOSITY

Search for Art, Artists or ongoing Auctions

LOG IN | SIGN UP

[GALLERY](#)
[YOUR BIDDED ITEMS](#)
[OIL PAINTING](#)
[PRINT](#)
[SCULPTURE](#)
[WATERCOLOUR](#)

Log In

Email Address

[Forgot your password?](#)

Password

☐ Remember Me

Login

[Register for free](#)

Figure 22 – Login page

After the user creates their account, they are taken to the login page where they can then sign in.

User login page (#8)

VIRTUOSITY

Search for Art, Artists or ongoing Auctions

LOG IN | SIGN UP

GALLERY

YOUR BIDDED ITEMS

OIL PAINTING

PRINT

SCULPTURE

WATERCOLOUR

Log In

Email Address

Forgot your password?

Password

☐ Remember Me

Login

Register for free

Log In

Email Address

Forgot your password?

Please fill out this field.

Password

☐ Remember Me

Login

Log In

Email Address

jackson@mail.com

Forgot your password?

Password

....

☒ Remember Me

Login

VIRTUOSITY

Search for Art, Artists or ongoing Auctions

SELL | BUY JACKSON HALL | LOG OUT

GALLERY

YOUR BIDDED ITEMS

OIL PAINTING

PRINT

SCULPTURE

WATERCOLOUR

Figure 22 – Login page

From here after the user puts in their credentials, they should be able to log in, if they fail or miss a field they will be notified. When they successfully log in they will notice how their navigation bar changes to display their name and two new options of SELL and BUY.

Seller past sales page (#9)


VIRTUOSITY

Search for Art, Artists or ongoing Auctions

SELL | BUY | **BRUCE WAYNE** | LOG OUT

[GALLERY](#) [YOUR INVENTORY](#) [SALE HISTORY](#) | [PRICING](#) [ORDERS](#) [FINANCE](#) [OUR SERVICES](#)


SALES HISTORY



If You Go Down To The Woods Today

Walking in nature helps reduce depression and anxiety. When we're walking, we're more likely to have increased clarity of thought, and less obsessive negative thinking. Walking in expansive places such as a forest increases our oxytocin levels, the hormone that promotes feelings of love, well being and connectedness.

Sale date: 30/10/2019

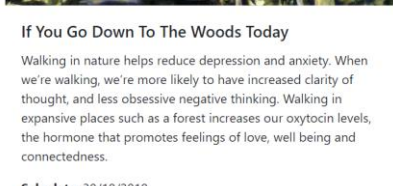


Lake land

Abstract lakes in the south west Australia. The sheer diversity of Western Australia's climate and geography has created some of the most unique rivers, lakes and wetlands on Earth - havens to staggering variety of wildlife, and meccas for seekers of watersport thrills and wilderness experiences.

Sale date: 31/10/2019

Sold To: William Tran




If You Go Down To The Woods Today

Walking in nature helps reduce depression and anxiety. When we're walking, we're more likely to have increased clarity of thought, and less obsessive negative thinking. Walking in expansive places such as a forest increases our oxytocin levels, the hormone that promotes feelings of love, well being and connectedness.

Sale date: 30/10/2019

Sold To: Steve Irwin

Price: \$500.0



Lake land

Abstract lakes in the south west Australia. The sheer diversity of Western Australia's climate and geography has created some of the most unique rivers, lakes and wetlands on Earth - havens to staggering variety of wildlife, and meccas for seekers of watersport thrills and wilderness experiences.

Sale date: 31/10/2019

Sold To: William Tran

Price: \$1400.0

Figure 14 – Sales History

On this page we can see which items had been sold in the past to who and at what price at what date.

Error handling (#10)

```
@app.errorhandler(400)
def bad_request(e):
    return render_template("400.html"),400

@app.errorhandler(403)
def forbidden(e):
    return render_template("403.html"),403

@app.errorhandler(404)
def page_not_found(e):
    return render_template("404.html"),404

@app.errorhandler(410)
def page_deleted(e):
    return render_template("410.html"),410

@app.errorhandler(500)
def internal_error(e):
    return render_template("500.html"),500
```

Figure 23 – Error Handling code

Sample code of what was performed. To gain access to these pages you can /number.

Error 403

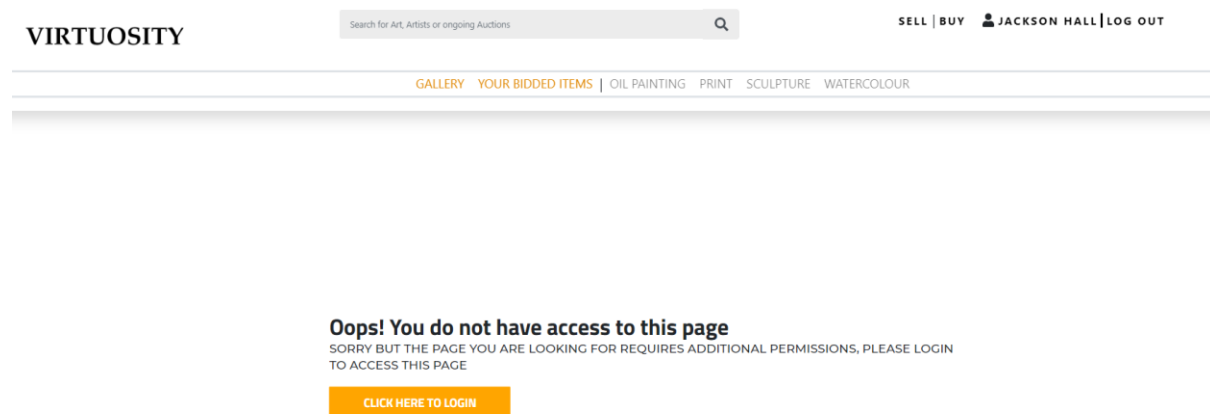


Figure 24 – Error 403

This error can be replicated by searching up any page that does not exist, such as
["https://virtuosity.herokuapp.com/sell"](https://virtuosity.herokuapp.com/sell)

Error 404

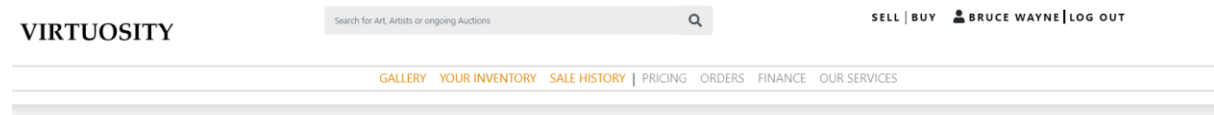


Figure 25 – Error 404

This error can be replicated by searching up any page that does not exist, such as “<https://virtuosity.herokuapp.com/badstringfafsafw23423r>”

Error 410

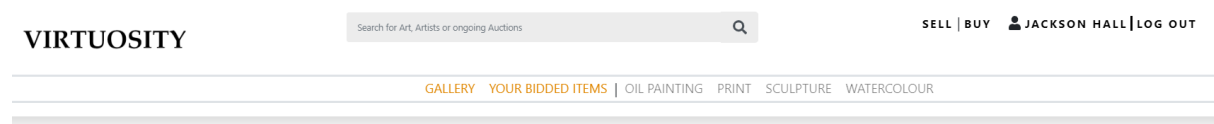
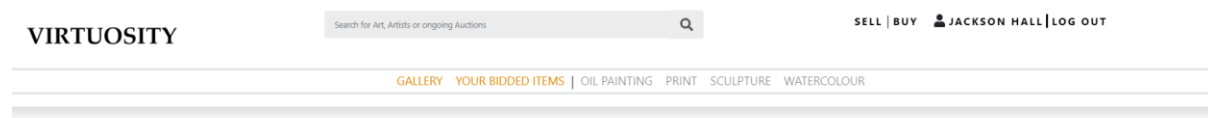


Figure 26 – Error 410

This page can be found when looking for a page that was recently removed

Error 500



Uh oh!

SOMETHING BLEW UP WITH OUR CODE!, YOU VIEWING THIS PAGE DOES NOT FIX THE CODE IN FACT YOUR LIKELY ANNOYED AT THE MOMENT. TAKE SOLACE THREE MONKIES ARE WORKING ON WRITING A BETTER 500 ERROR MESSAGE

[GO TO HOMEPAGE](#)

Figure 27 – Error 500

This Error can be replicated by a failure on our behalf.

Heroku Git Integration Setup

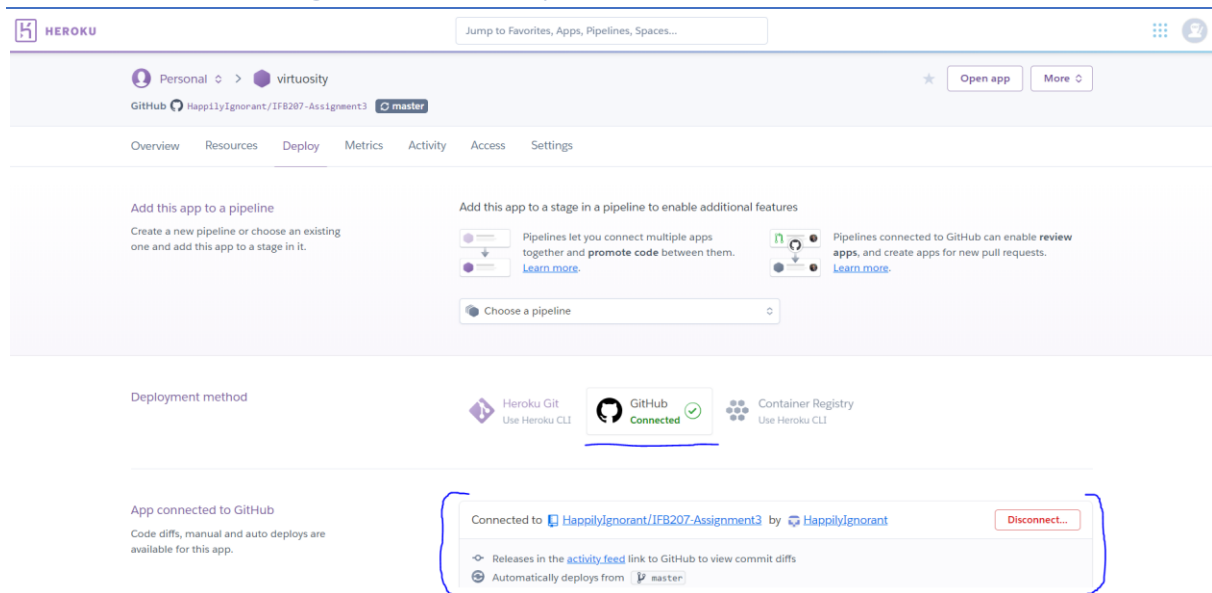


Figure 28 – Setting up the GitHub repository to work with Heroku

To get GitHub to send each commit to Heroku I had to authorize it first, and allow automatic development builds to be set up.

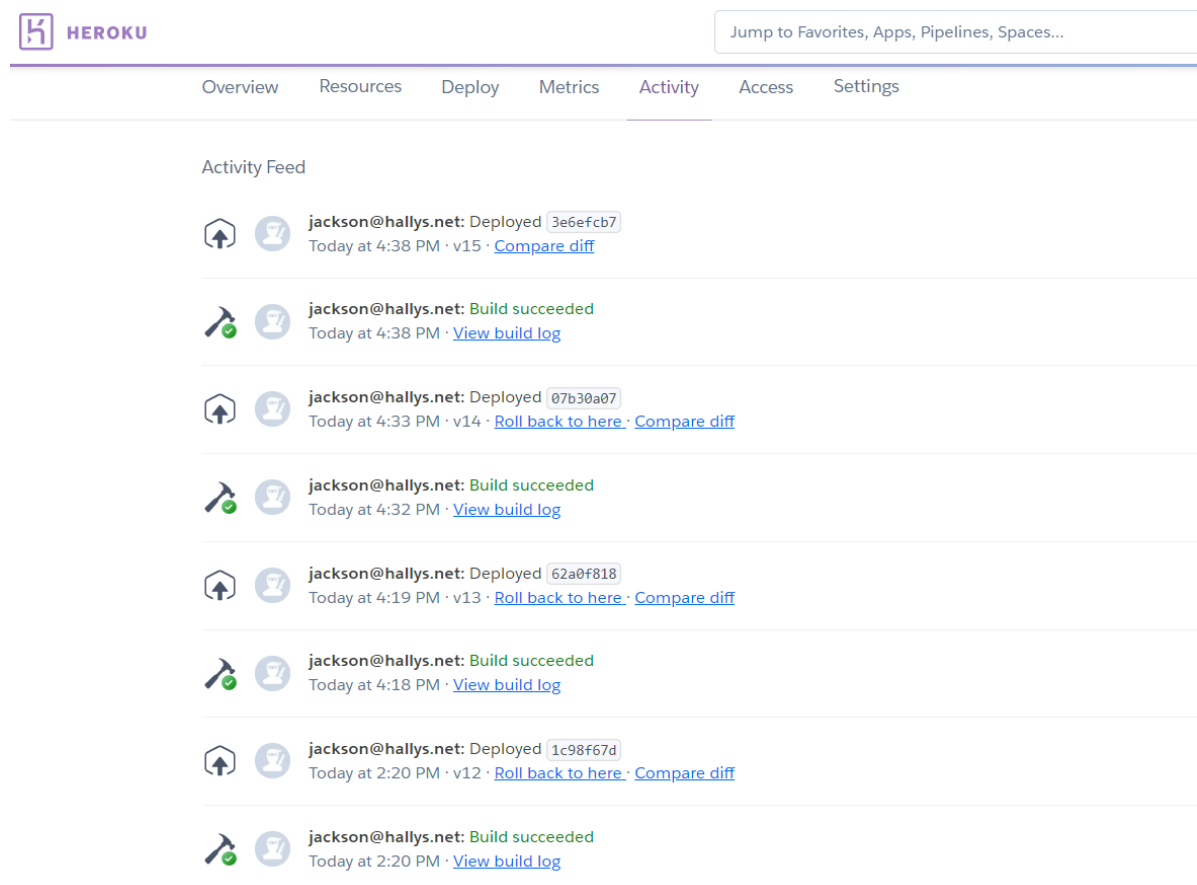


Figure 29

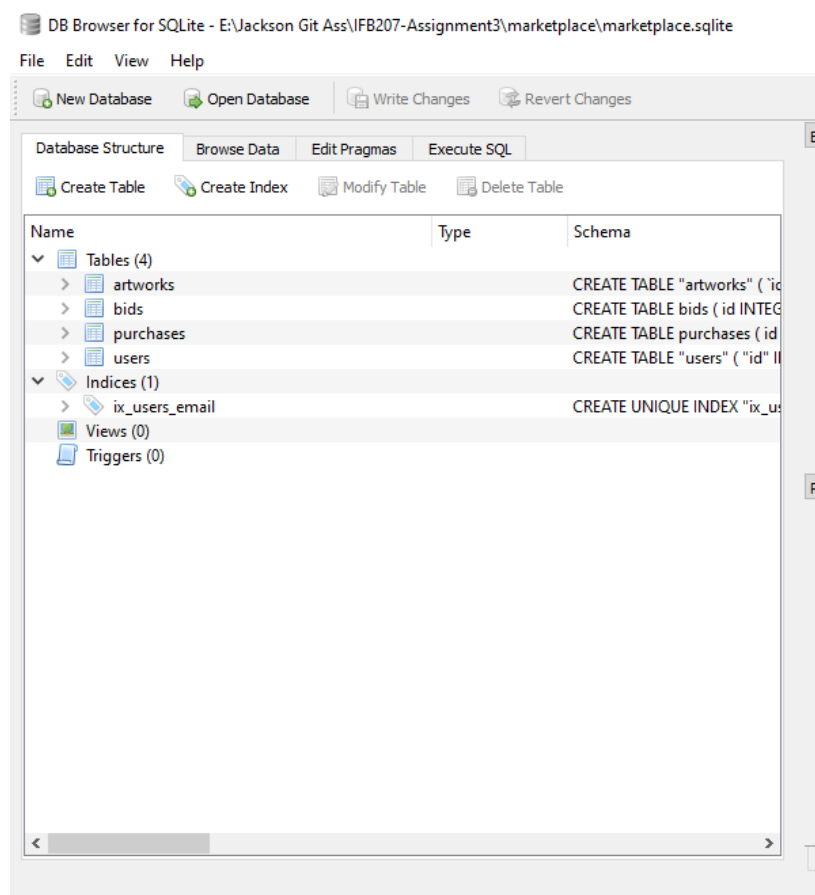
Data Bases and Data Management SQLITE and POSTGRESQL

SQLite

The initial database used during development was a SQLITE database, it was automatically generated by SQL Alchemy.

```
Python.exe
from marketplace import db, create_app
db.create_all(app=create_app())
```

It was very useful during the early stages as it deployed along with the git commits to Heroku.



Heroku PostgreSQL

Once the application was mostly completed the database was migrated to Postgres, the Heroku Postgres database was configured for the app. The credentials for the Postgres database were then used to replace the SQLite database in `__init__.py`

The screenshot shows the Heroku PostgreSQL configuration page for a database named 'postgres-silhouetted-94121'. The page is divided into two main sections: 'ADMINISTRATION' and 'Database Credentials'. Under 'Database Credentials', there is a warning that the credentials are not permanent and that Heroku rotates them periodically. Below this, a table lists the database details:

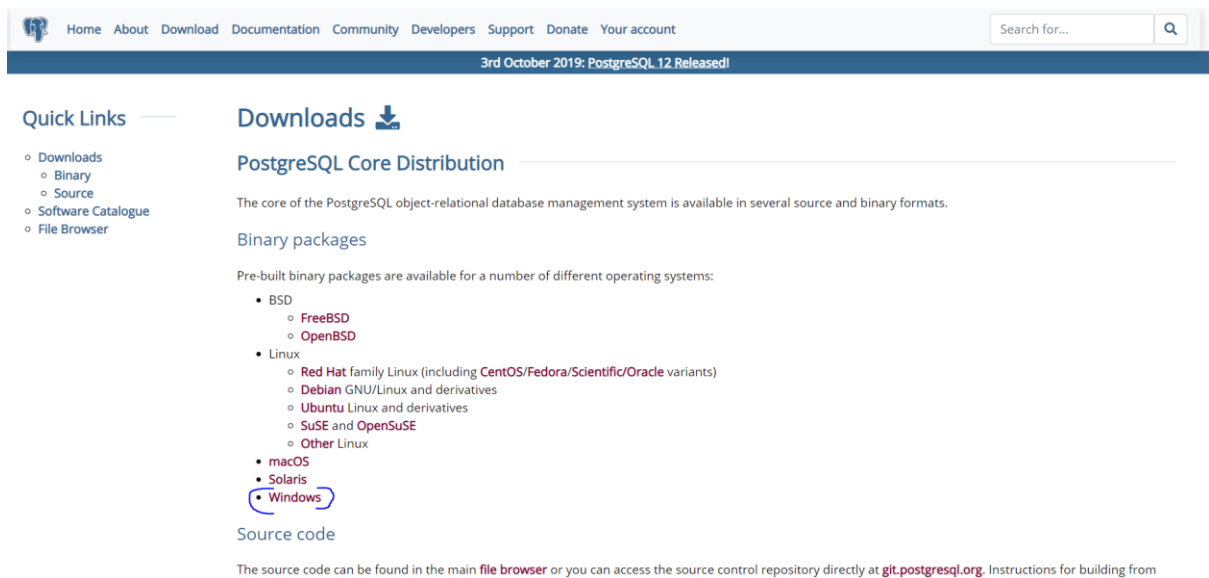
Host	ec2-174-129-253-101.compute-1.amazonaws.com
Database	d5lrdgfpnqvndun
User	dmkcxmnrnzqmv
Port	5432
Password	12b2d1f6075ae5232d1dfd1b2d422cca4414a773030f622cc98044c0b1f66af
URI	postgres://dmkcxmnrnzqmv:12b2d1f6075ae5232d1dfd1b2d422cca4414a773030f622cc98044c0b1f66af@ec2-174-129-253-101.compute-1.amazonaws.com:5432/d5lrdgfpnqvndun
Heroku CLI	heroku pg:psql postgresql-silhouetted-94121 --app virtuosity

The screenshot shows a code editor with two versions of the `__init__.py` file. The left version (line 17) shows the original code using a SQLite URI: `app.config['SQLALCHEMY_DATABASE_URI']='sqlite:///marketplace.sqlite'`. The right version (line 17) shows the updated code using the Heroku PostgreSQL URI: `app.config['SQLALCHEMY_DATABASE_URI']='postgres://dmkcxmnrnzqmv:12b2d1f6075ae5232d1dfd1b2d422cca4414a773030f622cc98044c0b1f66af@ec2-174-129-253-101.compute-1.amazonaws.com:5432/d5lrdgfpnqvndun'`. The change is highlighted with a green background.

With the new database URI the database was re-created on Heroku the same way the SQLite database was created

```
Python.exe
from marketplace import db, create_app
db.create_all(app=create_app())
```

Then comes along the task of downloading and installing PostgreSQL from the main website



Quick Links

- Downloads
 - Binary
 - Source
- Software Catalogue
- File Browser

Downloads

PostgreSQL Core Distribution

The core of the PostgreSQL object-relational database management system is available in several source and binary formats.

Binary packages

Pre-built binary packages are available for a number of different operating systems:

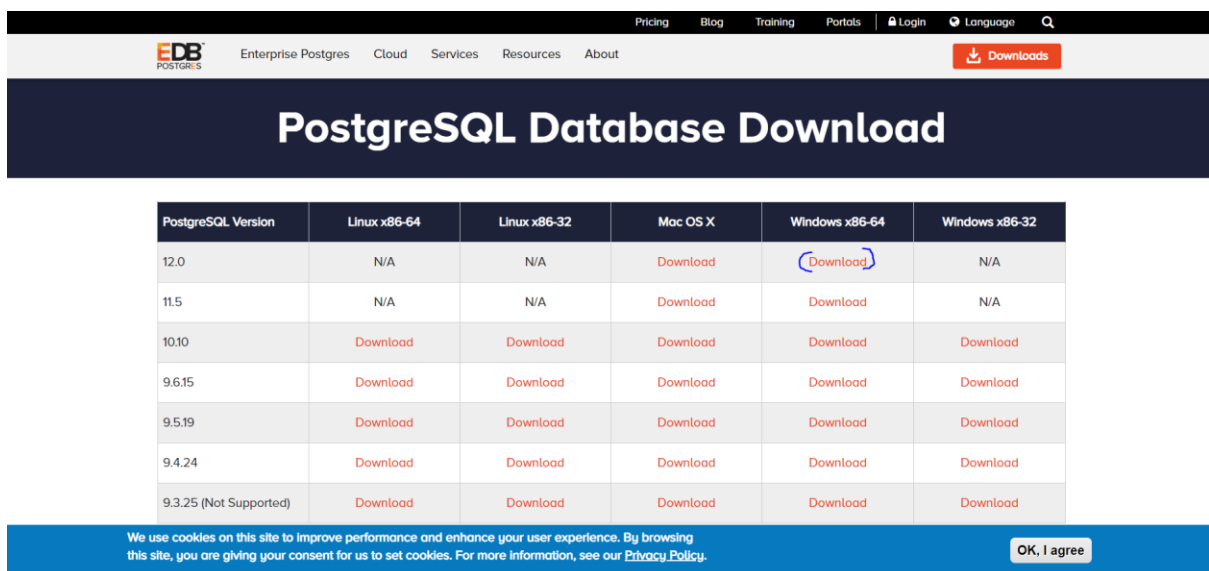
- BSD
 - FreeBSD
 - OpenBSD
- Linux
 - Red Hat family Linux (including CentOS/Fedora/Scientific/Oracle variants)
 - Debian GNU/Linux and derivatives
 - Ubuntu Linux and derivatives
 - SuSE and OpenSuSE
 - Other Linux
- macOS
- Solaris
- Windows

Source code

The source code can be found in the main [file browser](#) or you can access the source control repository directly at [git.postgresql.org](#). Instructions for building from

Figure 30 – Download

Here I simply downloaded the windows version of the Core distribution



PostgreSQL Version	Linux x86-64	Linux x86-32	Mac OS X	Windows x86-64	Windows x86-32
12.0	N/A	N/A	Download	Download	N/A
11.5	N/A	N/A	Download	Download	N/A
10.10	Download	Download	Download	Download	Download
9.6.15	Download	Download	Download	Download	Download
9.5.19	Download	Download	Download	Download	Download
9.4.24	Download	Download	Download	Download	Download
9.3.25 (Not Supported)	Download	Download	Download	Download	Download

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OK, I agree

Figure 31

Downloading the latest version of PostgreSQL allows me to use the PGAdmin tool, a database manager for servers, like MySQL used in IBF-105 in Semester 1.

Management

The screenshot shows the PGAdmin interface with a query editor and a data output table. The query editor contains the following SQL query:

```
SELECT * FROM public.artworks
```

The data output table displays the results of the query, showing 10 rows of data. The columns are: id, seller_id, image_address, create_date, name, category, description, and price.

id	seller_id	image_address	create_date	name	category	description	price
1	3	Pixel-600x402.jpg	2019-10-24 12:06:18.925618	Pixel	Print	This digital mini-series collecti...	
2	4	equilibre-768x1145.jpg	2019-10-24 12:11:46.182744	équilibré	Watercolor	This is a work in my figurative e...	
3	5	Mauve-bouquet-768x773.jpg	2019-10-24 12:13:33.072041	Mauve bouquet	Watercolor	My love of flowers and nature L...	
4	6	The-Pink-Sky-768x512.jpg	2019-10-24 12:19:47.277349	The Pink Sky	Print	The Nature Limited Edition Pho...	
5	7	Alejandra_Sleder_Who-stole...	2019-10-24 12:20:52.304443	Who stole my identity?	Oil Painting	It was painted to project the los...	
6	8	Sacred-Jade-print-768x612.jpg	2019-10-24 12:24:24.67368	Sacred Jade	Oil Painting	This painting is part of a new s...	
7	9	IMG_0143-6-768x960.jpg	2019-10-24 12:29:35.43479	Garden Retreat	Watercolor	This painting was inspired by th...	
8	10	IMG_20190403_165001-resiz...	2019-10-24 12:30:21.613719	Once Upon a Reef	Watercolor	This painting was inspired by A...	

Figure 32 – Using PGAdmin

Utilizing PGAdmin the tools used with this database management tool are identical if not the same to using MySQL after connecting to the Heroku cloud with this software. By doing so I was able to extract the CSV file from SQL Lite and import that into this database.