

### Documentation for ww3 Assignment 3

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See docs for relevant documentation details:

ER diagram -> Contained in this doc  
db schema -> Contained in this doc  
dataflow -> Contained in this doc  
3NF process -> 3nf.pdf  
table creation and syntax -> table\_setup (UNIX script)

There was no AJAX nor JSON employed on this version of the website.  
The website is functional on chrome and firefox

Access point:                    ugweb.cas.mcmaster.ca/~guloiej

Working accounts:

username	Password	Admin Status
twotwo	Use123#	Admin
normal	Normal123#	Not Admin

In order to properly setup the website:

1. The following files should reside within public\_html:

- admin\_inventory\_create.php
- admin\_inventory.php
- admin\_inventory\_update.php
- admin.php
- admin\_users\_create.php
- admin\_users\_delete.php
- admin\_users.php
- admin\_users\_update.php
- catalog.php
- checkout.php
- contact.html
- extra.css
- fonts
- images
- Includes
- index.html
- login.bk
- login.php
- login.php.bk
- logout.php
- productreview.php
- purchaseconfirm.php
- register.php
- review.html
- Scripts
- sitemap.html
- table\_setup
- userupdate.php
- viewreview.php

where fonts, images, Includes, Scripts are directories containing necessary files

2. if on UNIX system, simply run ./table\_setup from the public\_html folder  
if not on UNIX system, use statements contained in the table\_setup to build database.

3. Visit web address containing public\_html folder:  
ugweb.cas.mcmaster.ca/~guloiej

This will lead you to the index.html page, where everything should be fairly intuitive.  
Most places to navigate can be reached by using the navbar.

You can login, register a new user, view the catalog, add items to cart, view the cart and view reviews without logging in.  
If you are logged in then you can logout, purchase your cart contents, rate the purchased items, or change your user's settings.

If your user name is that of an admin you can navigate to the admin page and edit user info and inventory info.

In order to make a purchase you must enter a valid credit card number “1234123412341234” or “1234-1234-1234-1234” with an expiry date that is beyond the current month.

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NOTE:

How search feature is implemented:

- An input type of search (call A) was added
- An event listener for the *input* DOM event was added, which ran the following procedure every time A's value was changed:
  1. *Val* := A's value
  2. For all 15 rows R in our product table:
    - For all cols C (price, description, storage type, etc.):
      - If the regular expression */val/i* matches the text in table cell A[R][C] (ie. if *val* is a case-insensitive substring of A[R][C]), then invoke jQuery *.show()* method on the row element
    - If no match occurred in any column , invoke jQuery's *.hide()* method on the row element

3NF process:

**users:**

username, firstname, lastname, email, phone, street\_num, street\_name, unit, city, province, postalcode, password, isadmin

All other columns dependent only on username → 3NF; no partial, no transitive dependencies

**inventory :**

p\_id, name, qty, unitprice, type, proc, space, s\_type, descr, screen , image\_link

All other columns dependent only on p\_id → 3NF; no partial, no transitive dependencies

**cart:**

username, p\_id, qty, unitprice, price

price dependent on unitprice and qty → 1NF

username, p\_id, qty, unitprice

unitprice is redundant here → 2NF

username, p\_id, qty

no dependencies now, no redundancy → 3NF

**purchase:**

o\_id, username, p\_id, qty, unitprice, orderdate, shippingStatus

shippingStatus dependent on orderdate → 1NF

unitprice is redundant

o\_id, username, p\_id, qty, orderdate

no more dependencies → 3NF

**review:**

username, p\_id, pseudonym, rating, msg

username, p\_id determine pseudonym, rating, msg; no partial, no transitive dependencies  
→ 3NF

# DB Schemas

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Table cart:



	Name	Data Type	Default Value	Is Primary Key?	Is Identity?	Allow Nulls
	username	varchar (255)	Null	Yes	No	No
	p_id	int (11)	Null	Yes	No	No
	qty	int (11)	Null	No	No	No

Table inventory:


	Name	Data Type	Default Value	Is Primary Key?	Is Identity?	Allow Nulls
	p_id	int (11)	Null	Yes	No	No
	name	varchar (255)	Null	No	No	No
	qty	int (11)	Null	No	No	No
	unitprice	int (11)	Null	No	No	No
	type	varchar (255)	Null	No	No	No
	proc	varchar (255)	Null	No	No	No
	space	varchar (255)	Null	No	No	No
	s_type	varchar (255)	Null	No	No	No
	descr	varchar (255)	Null	No	No	No
	screen	int (11)	Null	No	No	No
	image_link	varchar (255)	Null	No	No	Yes

Table purchase:




	Name	Data Type	Default Value	Is Primary Key?	Is Identity?	Allow Nulls
	o_id	int (11)	Null	Yes	No	No
	username	varchar (255)	Null	Yes	No	No
	p_id	int (11)	Null	Yes	No	No
	qty	int (11)	Null	No	No	No
	orderdate	varchar (255)	Null	No	No	No

Table review:




	Name	Data Type	Default Value	Is Primary Key?	Is Identity?	Allow Nulls
	username	varchar (255)	Null	Yes	No	No
	p_id	int (11)	Null	Yes	No	No
	pseudonym	varchar (255)	Null	No	No	Yes
	rating	varchar (255)	Null	No	No	Yes
	msg	varchar (255)	Null	No	No	Yes

Table users:

	Name	Data Type	Default Value	Is Primary Key?	Is Identity?	Allow Nulls
	username	varchar (255)	Null	Yes	No	No
	fname	varchar (255)	Null	No	No	No
	lname	varchar (255)	Null	No	No	No
	email	varchar (255)	Null	No	No	No
	phone_num	varchar (255)	Null	No	No	No
	street_num	varchar (255)	Null	No	No	No
	street_name	varchar (255)	Null	No	No	No
	unit_num	varchar (255)	Null	No	No	Yes
	city	varchar (255)	Null	No	No	No
	province	varchar (255)	Null	No	No	No
	postalcode	varchar (255)	Null	No	No	No
	password	varchar (255)	Null	No	No	No
	is_admin	tinyint (4)	Null	No	No	Yes

