E-commerce project

This is a simple demo e-commerce store with pre-populated data. It use SQLITE, and the data model an association proxy. All web page are created dynamically using Jinja2, WTForms.

The e-commerce store proposed here sell exclusively vehicles and action figures from the star wars

franchise. It is catering for both collectors and casual buyer looking to procure vehicle and action figures from their favourite franchise.

Screenshot

Video Presentation

A short video presentation is accessible <u>here</u>.

Requirement

```
click==7.1.2
dnspython==1.16.0
dominate==2.5.1
email-validator==1.1.1
Flask==1.1.2
Flask-Bootstrap==3.3.7.1
Flask-SQLAlchemy==2.4.3
Flask-WTF==0.14.3
idna==2.10
itsdangerous==1.1.0
Jinja2==2.11.2
MarkupSafe==1.1.1
SQLAlchemy==1.3.18
visitor==0.1.3
Werkzeug==1.0.1
WTForms == 2.3.1
```

to install each package, use the package manager pip:

```
$pip install <package name>
```

Tree structure of the project:





Files details

Python files

- app.py call the app in the application folder (__init__.py).
- __init__.py build the actual app.
- view.py handle most of the routes (blueprint viewbp).
- model.py handle the data model, and the creation of the database.
- cart.py handle specifically the route for the cart (blueprint cartbp). It uses its own templates folder in application/cart/templates/.
- order.py handle the checkout form with WTForms.
- admin.py handle the loading of the data in the database (blueprint adminbp).

Pages html

The site:

- Use two base templates: layout.html and cartlayout.html.
- The includes file are: bottomnav.html for the bottom navigation bar, and topnav.html for the top navigation bar (also found in cart/templates).
- a main index page index.html that present all the items for sale. for each item the customer can add to the card or choose to view the particular of the item.
- An about page about.html.
- A contact page contact.html
- Two categories page cat1.html and cat2.html, that present only a subset of the items for sell.
- An item page item.html that present each item particular.

- A cart page, found in cart/templates/ cart.html.
- And a checkout page checkout.html.

How to update the database

In model.py you need to uncomment db.drop_all() see below:

```
def load_db(db):
    # Drop and re-create all the tables (For testing)
    #db.drop_all()
    db.create_all()
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To load the database type in the terminal:

```
$flask run
```

then in your browser go to:

```
http://127.0.0.1:5000/admin/dbseed/
```

you can add more items in admin.py the basic to do this is:

```
from flask import Blueprint
from sqlalchemy.exc import SQLAlchemyError
from . import db
from application.model import Item

# admin Blueprint
adminbp = Blueprint('admin', __name__, url_prefix='/admin/')

# Data for loading in the database

@adminbp.route('/dbseed/')
@adminbp.route('test')
def dbseed():
    item1 = Item(id=1, name='Darth Vader', image='darthvader.jpg', \)
```

```
description='Kids and fans alike can imagine the biggest
battles and missions in the Star Wars saga with figures from The Black Series!
 With exquisite features and decoration, this series embodies the
quality and realism that Star Wars devotees love. Once a heroic Jedi Knight,
Darth Vader was seduced by the dark side of the Force, became a Sith Lord, and
led the Empire's eradication of the Jedi Order. He remained in service of the
Emperor for decades, enforcing his Master's will and seeking to crush the
fledgling Rebel Alliance.  This 6-inch-scale Darth Vader figure is
carefully detailed to look like the Sith Lord from Star Wars: A New Hope. This
figure features premium detail and multiple points of articulation, and
includes a character-specific accessory. Star Wars products are produced
by Hasbro under license from Lucasfilm Ltd. Hasbro and all related terms are
trademarks of Hasbro.', \
                itemShort='Kids and fans alike can imagine the biggest battles
and missions in the Star Wars saga.',
                price=30.00, category=2)
   try:
       db.session.add(item1)
       db.session.commit()
    except SQLAlchemyError as e:
       print(e)
       return "<h1>There was an issue adding an item in dbseed function</h1>"
    else:
       return "All Good"
```

Please note putting html tag in the description field will improve viewing, After Jinja2 rendering. To enable this I have used {{ Item.description | safe }}

Task list

- ✓ Use HTML & Bootstrap CSS.
- Use Flask Templates.
- ✓ Use Flask Blueprint.
- Use Flask WTForms.
- ✓ Use Flask SQLAlchemy.
- Dynamically create the html pages.
- ✓ Item details page.
- Add items to the cart.
- Remove individual item from cart.
- Remove all items from cart.
- ☑ View item details from cart by clicking on item picture in cart.
- Checkout form with WTForms that validate data.

- [] Manage the quantity of each item placed in the basket in the database.
- [] Manage the sending of message for the contact us form.
- [] Manage pagination.
- [] implement search.

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