

Project - Catalog

Introduction

This is a web application which provides us the ability to add new categories and

to add new items within those categories. Major features include

- Add new categories
- Add items within those categories
- Edit or delete items from a category
- Move items from one category to another
- Lists the 5 latest items on the home page
- Google OAuth is used for signin and signout, in other words you can signin using your gmail account.
- Authorization is implemented i.e. URL's are protected from unauthorized access.
- Only authorized users will be able to modify or delete the items.

Technologies used

- Python3
- Flask - Web development framework for python
- Sqlalchemy for ORM
- Sqlite for database
- Google OAuth2 API

Install

- Can be run on any computer provided we have all the softwares

and tools installed.

- Python version 3 is required to run the application
- Sqlite needs to be installed for database
 - `pip3 install sqlite3`
- Other miscellaneous modules need to be installed like sqlalchemy, flask, etc
- No special tools or IDE required, an editor like notepad, notepad++, etc to edit the code files.
- Additionally, google account is required to setup the project for Google OAuth API.
 - Read the instructions [here](#) for more information on OAuth
- Brief steps include creating a google account, setting up a project, noting down the client ID and client secret, downloading the client secret json file, etc.

Instructions to run

- Unzip the python catalog project.
- The directory structure should be as follows
 - `catalogViews.py`, `catalog.db`, `client_secret_catalog.json`, `models.py` in the root directory
 - all .css files should go in the static folder inside the root directory
 - all .html files should go in the templates folder inside the root directory
- See the directory structure below:

```
project
```

```
| README.md
| catalogViews.py
| catalog.db
| client_secret_catalog.json
| models.py
└─ static/css
    | style.css
    | bootstrap.css
    |
└─ templates
    | add_category.html
    | add_item.html
    | catalog.html
    | category.html
    | delete_category.html
    | delete_item.html
    | edit_category.html
    | edit_item.html
    | item.html
    | login.html
    | public_catalog.html
    | public_category.html
    | public_item.html
```

- Run the `catalogViews.py` program from within the IDLE or python shell and the server will run on localhost and port: 5002

- Command to run the application `python catalogViews.py`
- Goto `localhost@5002` from within the browser in order to access the catalog project's home page.

Scope for improvement

- There is a partial implementation for 'Deleting and Modifying a category' but there is a scope to make it functional.
- Would love to provide a picture upload option while adding the categories and/or items.