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EE3801 Lab 7A

Step 12

Envlist.py:

```
#!/data/miniconda3/envs/env1/bin/python

from filelock import FileLock
import hickle
import sys

# set constants
file_path = "/data/picasso/envlist.hkl"
lock_path = "/data/picasso/envlist.khl.lock"
time_out_secs = 60

# program modes
READ_MODE = 0
WRITE_MODE = 1
RESET_MODE = 2

# get number of arguments
nargs = len(sys.argv)
if nargs > 3:
    print('Usage: envlist; envlist env; envlist envprefix nenvs')
    exit
elif nargs > 2:
    # creates or re-creates the list of environments
    pmode = RESET_MODE
    # get prefix for environment name
    envprefix = sys.argv[1]
    # get number of environments to create
    nenvs = sys.argv[2]
elif nargs > 1:
    # returns env to the list of environments
    pmode = WRITE_MODE
    # get name of environment to return
    env = sys.argv[1]
else:
    # gets name of an environment to use
    pmode = READ_MODE
    env = None # Initialize env
```

```
# creates a lock for the file so it can only be accessed one at a time
lock = FileLock(lock_path, timeout=time_out_secs)
```

with lock:

```
    if pmode == RESET_MODE:
        # Convert nenvs to an integer
        nenvs = int(nenvs)
        # create a list (named clist) of nenvs environments with the
        # prefix envprefix
        clist = [f"{envprefix}{i}" for i in range(nenvs)]
        print(clist)
    else:
        # load hickle file
        clist = hickle.load(file_path)

    if pmode == WRITE_MODE:
        # append item to end of list
        clist.append(env)
    elif pmode == READ_MODE:
        # Return the next environment from the list
        if clist:
            env = clist.pop(0)
            print(env)

# save hickle file
hickle.dump(clist, file_path, mode="w")
```

```
/data/picasso/20181105
[env1] [ec2-user@ip-10-0-13-218 20181105]$ /data/src/PyHipp/envlist.py cenv 64
['cenv0', 'cenv1', 'cenv2', 'cenv3', 'cenv4', 'cenv5', 'cenv6', 'cenv7', 'cenv8', 'cenv9', 'cenv10', 'cenv11', 'cenv12',
 'cenv13', 'cenv14', 'cenv15', 'cenv16', 'cenv17', 'cenv18', 'cenv19', 'cenv20', 'cenv21', 'cenv22', 'cenv23', 'cenv24',
 'cenv25', 'cenv26', 'cenv27', 'cenv28', 'cenv29', 'cenv30', 'cenv31', 'cenv32', 'cenv33', 'cenv34', 'cenv35', 'cenv36',
 'cenv37', 'cenv38', 'cenv39', 'cenv40', 'cenv41', 'cenv42', 'cenv43', 'cenv44', 'cenv45', 'cenv46', 'cenv47', 'cenv48',
 'cenv49', 'cenv50', 'cenv51', 'cenv52', 'cenv53', 'cenv54', 'cenv55', 'cenv56', 'cenv57', 'cenv58', 'cenv59', 'cenv60',
 'cenv61', 'cenv62', 'cenv63']
[env1] [ec2-user@ip-10-0-13-218 20181105]$ /data/src/PyHipp/envlist.py
cenv0
[env1] [ec2-user@ip-10-0-13-218 20181105]$ /data/src/PyHipp/envlist.py cenv0
[env1] [ec2-user@ip-10-0-13-218 20181105]$ ipython
Python 3.6.10 |Anaconda, Inc.| (default, May  8 2020, 02:54:21)
Type "copyright", "credits" or "license" for more information.

IPython 5.8.0 -- An enhanced Interactive Python.
?           -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
%help      -> Python's own help system.
%object?   -> Details about 'object', use '%object??' for extra details.

In [1]: import hickle

In [2]: clist = hickle.load('/data/picasso/envlist.hkl')

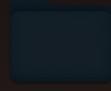
In [3]: len(clist)
Out[3]: 64

In [4]: clist
Out[4]:
['cenv1',
 'cenv2',
 'cenv3',
 'cenv4',
 'cenv5',
 'cenv6',
 'cenv7',
 'cenv8',
 'cenv9',
 'cenv10',
 'cenv11',
 'cenv12',
 'cenv13',
 'cenv14',
 'cenv15',
 'cenv16',
 'cenv17',
 'cenv18',
 'cenv19',
 'cenv20',
 'cenv21',
 'cenv22',
 'cenv23',
 'cenv24',
 'cenv25',
 'cenv26',
 'cenv27',
 'cenv28',
 'cenv29',
```

```
'cenv7',
'cenv8',
'cenv9',
'cenv10',
'cenv11',
'cenv12',
'cenv13',
'cenv14',
'cenv15',
'cenv16',
'cenv17',
'cenv18',
'cenv19',
'cenv20',
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'cenv53',
'cenv54',
'cenv55',
'cenv56',
'cenv57',
'cenv58',
'cenv59',
'cenv60',
'cenv61',
'cenv62',
'cenv63',
'cenv0']
```



Laravel-From-
Scratch-...-Project



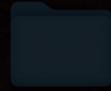
screenshots



LifeHack
Reimbursements

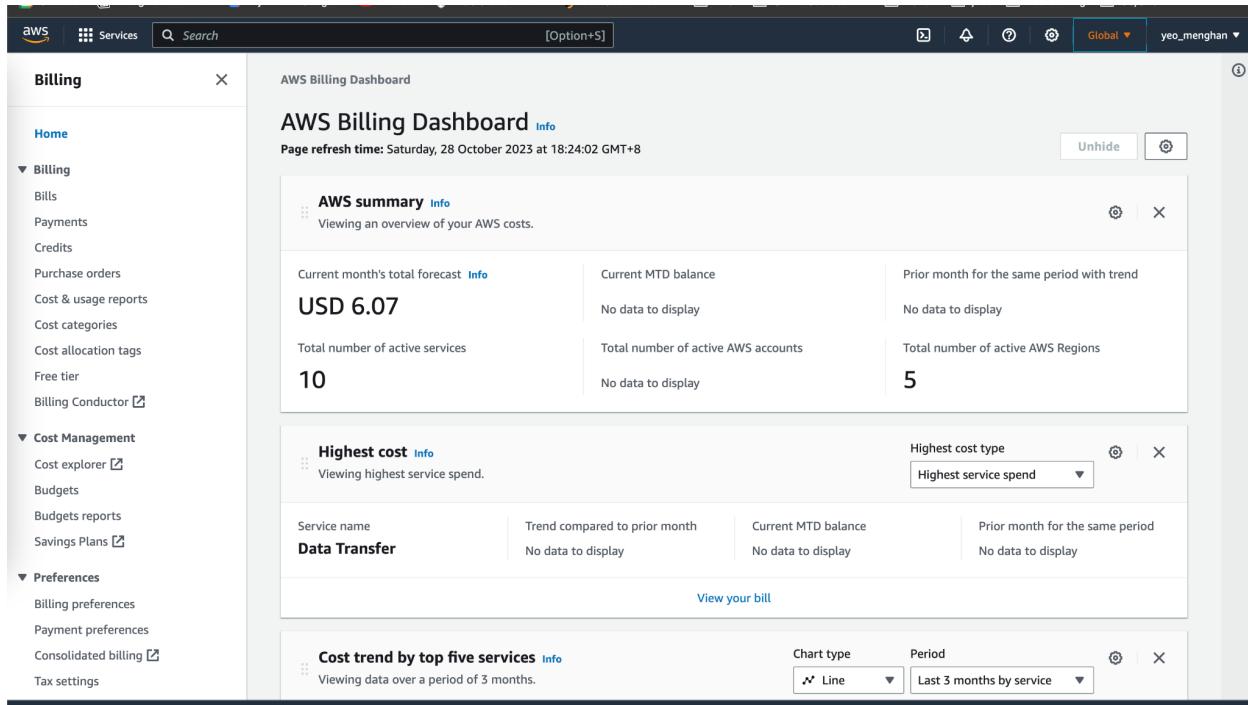


Gifts_cc7de37f05
5846b5...1ed9.csv



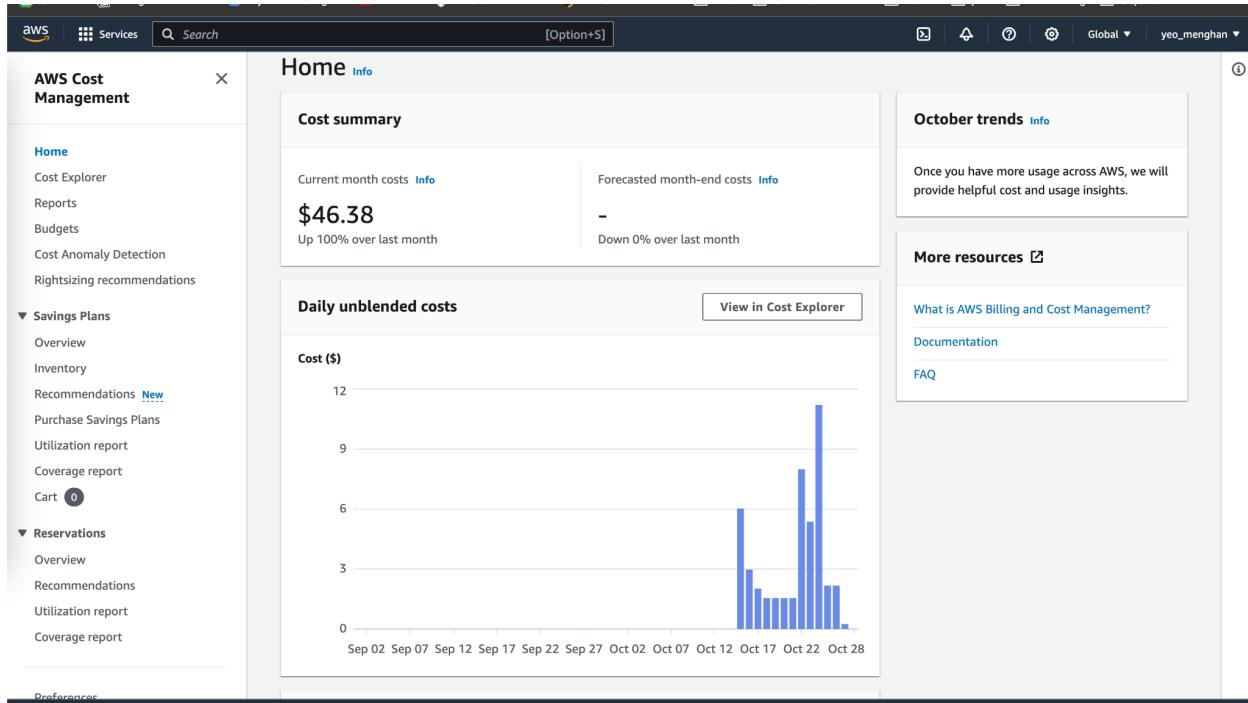
AI_Thinking

Repeat these steps from Lab 5:
Step 36



The screenshot shows the AWS Billing Dashboard. On the left, a sidebar menu under 'Billing' includes 'Home', 'Bills', 'Payments', 'Credits', 'Purchase orders', 'Cost & usage reports', 'Cost categories', 'Cost allocation tags', 'Free tier', and 'Billing Conductor'. Other sections like 'Cost Management' and 'Preferences' are also listed. The main content area displays the 'AWS Billing Dashboard' with a page refresh time of Saturday, 28 October 2023 at 18:24:02 GMT+8. It features an 'AWS summary' card with a forecast of USD 6.07, current MTD balance (No data to display), and prior month's trend (No data to display). Below it is a 'Highest cost' card for 'Data Transfer' with a trend of 'No data to display', current MTD balance (No data to display), and prior month's trend (No data to display). A 'Cost trend by top five services' chart is also present.

Step 37



The screenshot shows the AWS Cost Management Home page. The sidebar menu includes 'Home', 'Cost Explorer', 'Reports', 'Budgets', 'Cost Anomaly Detection', 'Rightsizing recommendations', 'Savings Plans' (with 'Overview', 'Inventory', 'Recommendations', 'Purchase Savings Plans', 'Utilization report', 'Coverage report', and a 'Cart' section showing 0 items), 'Reservations' (with 'Overview', 'Recommendations', 'Utilization report', 'Coverage report'), and 'Preferences'. The main content area has a 'Cost summary' card showing current month costs of \$46.38 (Up 100% over last month) and forecasted month-end costs (Down 0% over last month). It also features a 'Daily unblended costs' chart showing costs over time, with a 'View in Cost Explorer' button. A sidebar on the right provides links to 'October trends', 'More resources', 'What is AWS Billing and Cost Management?', 'Documentation', and 'FAQ'.

Step 75

The screenshot shows the AWS Billing Overview page. The left sidebar is titled "Billing" and includes links for Home, Bills, Payments, Credits, Purchase orders, Cost & usage reports, Cost categories, Cost allocation tags, Free tier, and Billing Conductor. The main content area is titled "Overview" and shows a table for "Budgets (1)". The table has columns for Name, Thresholds, Budget, Amount used, Forecasted amount, and Current vs. budgeted. One row is visible for "EE3801 Budget" with values: OK, \$200.00, \$44.44, and 22.22.

Name	Thresholds	Budget	Amount used	Forecasted...	Current vs. budgeted
EE3801 Budget	OK	\$200.00	\$44.44	-	22.22