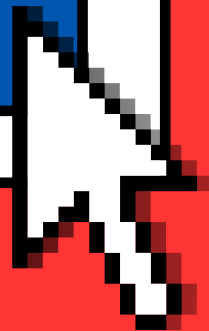
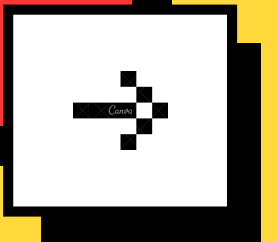


Get your head in the
Jobs Web Application

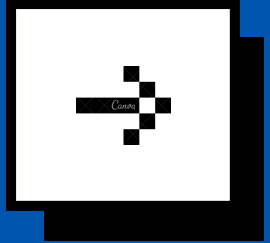


DS JOBS

Create web application with Django



Step 1: Web Scraping with Python Using BeautifulSoup



Target Webpage



Web Scraping

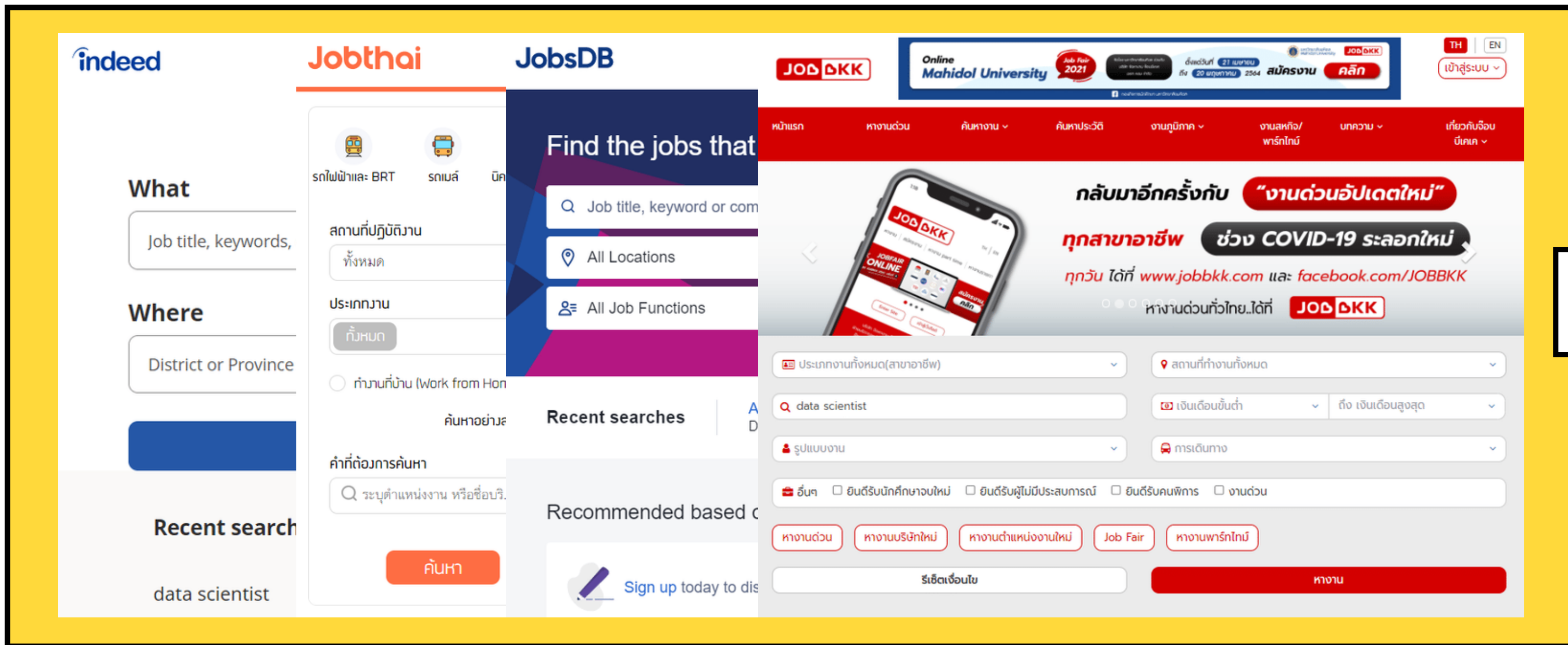


Structured Data

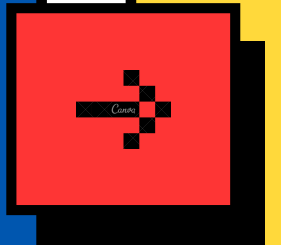


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Target Webpage



The screenshot displays a Jupyter Notebook environment with a dark-themed interface. The top bar includes icons for file management, search, and navigation, along with system status indicators like RAM and disk usage. The notebook contains several code cells:

- Cell [2]:** Imports required libraries: `from bs4 import BeautifulSoup`, `import pandas as pd`, `import requests`, and `import re`.
- Cell [3]:** Defines the URL for jobthai.com and sends a GET request: `url = 'https://www.jobthai.com/%E0%B8%AB%E0%B8%B2%E0%B8%87%E0%B8%B2%E0%B8%99/%E0%B8%87%E0%B8%B2%E0%B8%99%E0%B8%84%E0%B8%AD%E0%B8%A1%E0%B8%9E%E0%B8%B4%E0%B8%A7%E0%B9%80%E0%B8%95%E0%B8%AD%E0%B8%A3%E0%B9%`
- Cell [4]:** Parses the response and pretty-prints the HTML: `page_html = BeautifulSoup(response.text, 'html.parser')` and `# print(page_html.prettify())`.
- Cell [5] (highlighted):** Finds all job items and initializes lists for names, companies, locations, times, and pictures: `jobs = page_html.find_all('div', class_='ant-row jobItem__Container-msklqa-8 fxvUXX')`, followed by `names = []`, `companys = []`, `locations = []`, `times = []`, and `pictures = []`.
- Cell [7]:** Iterates through the jobs found in the previous cell, extracting details and appending them to the respective lists: `for container in jobs :`, `n = container.find('h2', "label-ohgq7e-0 kCdcPK").get_text(strip=True)`, `names.append(n)`, `c = container.find('h2', 'label-ohgq7e-0 ffBpGJ').get_text(strip=True)`, `companys.append(c)`, `l = container.find(id = 'location-text').get_text(strip=True)`, `locations.append(l)`, `t = container.find(style = 'text-align:right').span.get_text(strip=True)`, `times.append(t)`, `p = container.find('picture').img`, `p2 = p['src']`, and `pictures.append(p2)`.

A preview window on the right shows the resulting DataFrame structure:

```
[7] 1 df = pd.DataFrame({  
    2     'jobname': names,  
    3     'company': companys,  
    4     'location': locations,  
    5     'time' : times,  
    6     'image' : pictures  
    7 })
```

Below the preview, there is a button to execute the next cell, which would save the DataFrame to a CSV file: `df.to_csv('jobthai.csv')`.

Web Scrapping

Step 2: Building web
application with django



-- STEP --

✓ create HTML

ออกแบบหน้าเว็บเพื่อแสดงข้อมูล

✓ crate APPLICATION

สร้างโปรเจกในdjango

✓ Templates

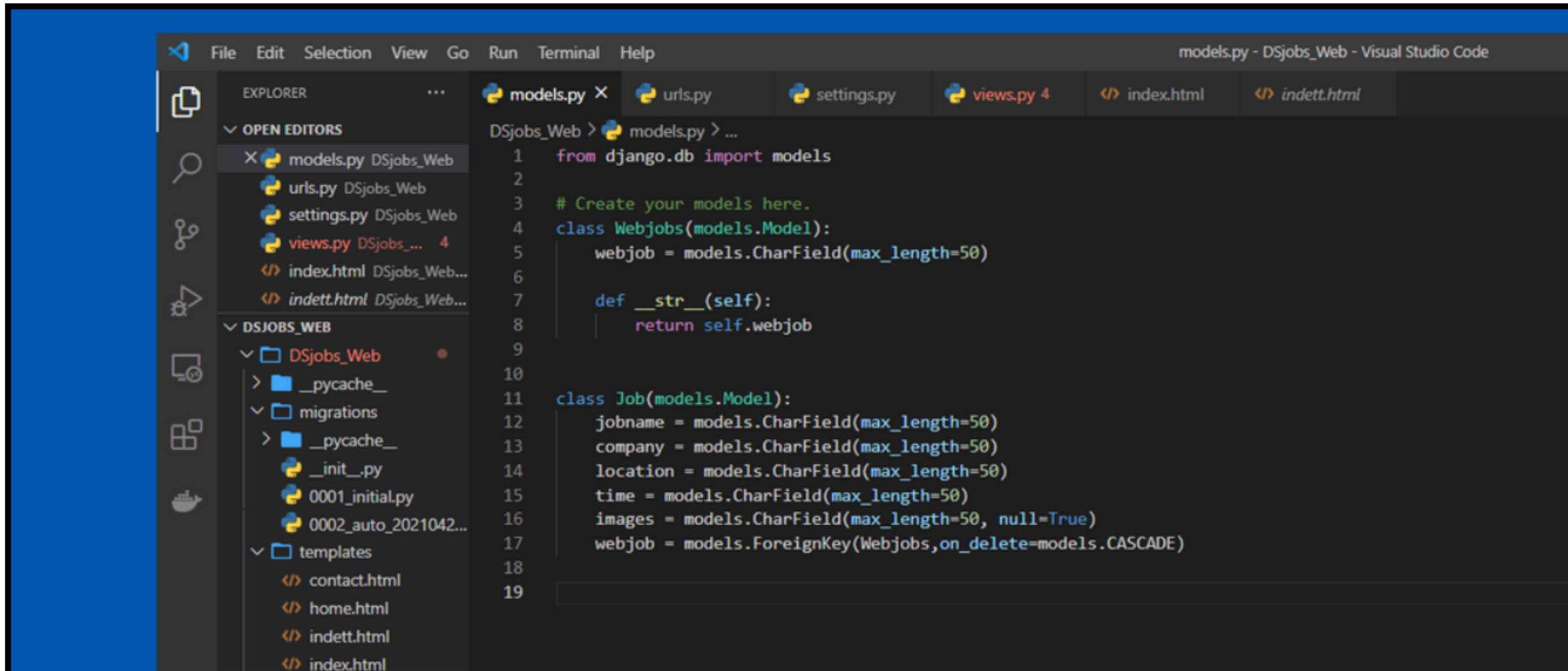
Connecting Templates เพื่อนำ
html ที่สร้างไว้มาใช้งาน

✓ Static

Connecting Static เพื่อจัดการ
กับรูปแบบ (style) ของhtml

✓ DataBase

Create & Connecting
Database เพื่อนำข้อมูลมาแสดง



```
models.py - DSJobs_Web - Visual Studio Code

EXPLORER
  OPEN EDITORS
    models.py DSJobs_Web
    urls.py DSJobs_Web
    settings.py DSJobs_Web
    views.py DSJobs_Web 4
    index.html DSJobs_Web...
    indett.html DSJobs_Web...
  DSJOBS_WEB
    DSJobs_Web
      __pycache__
      migrations
      __pycache__
      __init__.py
      0001_initial.py
      0002_auto_2021042...
      templates
        contact.html
        home.html
        indett.html
        index.html

models.py
1 from django.db import models
2
3 # Create your models here.
4 class Webjobs(models.Model):
5     webjob = models.CharField(max_length=50)
6
7     def __str__(self):
8         return self.webjob
9
10
11 class Job(models.Model):
12     jobname = models.CharField(max_length=50)
13     company = models.CharField(max_length=50)
14     location = models.CharField(max_length=50)
15     time = models.CharField(max_length=50)
16     images = models.CharField(max_length=50, null=True)
17     webjob = models.ForeignKey(Webjobs, on_delete=models.CASCADE)
18
19
```

Create DataBase & import Table from CSV file

DB Browser for SQLite - C:\Users\nutti\webtech\DSjobs_Web\db.sqlite3

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Save Project Attach Database Close Database

Database Structure Browse Data Edit Pragma Execute SQL

Create Table Create Index Modify Table Delete Table Print

Name	Type	Schema
Tables (17)		
DSJobs_Web_job		CREATE TABLE "DSJobs_Web_job" ("id" integer NOT NULL, "jobname" varchar(50) NOT NULL
id	integer	"id" integer NOT NULL
jobname	varchar(50)	"jobname" varchar(50) NOT NULL
company	varchar(50)	"company" varchar(50) NOT NULL
location	varchar(50)	"location" varchar(50) NOT NULL
time	varchar(50)	"time" varchar(50) NOT NULL
images	varchar(50)	"images" varchar(50)
webjob_id	integer	"webjob_id" integer NOT NULL
DSJobs_Web_webjobs		CREATE TABLE "DSJobs_Web_webjobs" ("id" integer NOT NULL PRIMARY KEY AUTOINCRE
id	integer	"id" integer NOT NULL
webjob	varchar(50)	"webjob" varchar(50) NOT NULL
auth_group		CREATE TABLE "auth_group" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "na
auth_group_permissions		CREATE TABLE "auth_group_permissions" ("id" integer NOT NULL PRIMARY KEY AUTOINCR
auth_permission		CREATE TABLE "auth_permission" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT
auth_user		CREATE TABLE "auth_user" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "pass
auth_user_groups		CREATE TABLE "auth_user_groups" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMEN
auth_user_user_permissions		CREATE TABLE "auth_user_user_permissions" ("id" integer NOT NULL PRIMARY KEY AUTO
bkk		CREATE TABLE "bkk" ("jobname" TEXT, "company" TEXT, "location" TEXT, "time" TEXT, "i
db		CREATE TABLE "db" ("jobname" TEXT, "company" TEXT, "location" TEXT, "time" TEXT, "In
django_admin_log		CREATE TABLE "django_admin_log" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMEN
django_content_type		CREATE TABLE "django_content_type" ("id" integer NOT NULL PRIMARY KEY AUTOINCREM
django_migrations		CREATE TABLE "django_migrations" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMEN
django_session		CREATE TABLE "django_session" ("session_key" varchar(40) NOT NULL PRIMARY KEY, "ses
indeed		CREATE TABLE "indeed" ("jobname" TEXT, "company" TEXT, "location" TEXT, "time" TEXT
jobthai		CREATE TABLE "jobthai" ("jobname" TEXT, "company" TEXT, "location" TEXT, "time" TEXT
sqlite_sequence		CREATE TABLE "sqlite_sequence" ("name" text, "seq" integer)

DB Browser for SQLite - C:\Users\nutti\webtech\DSjobs_Web\db.sqlite3

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Attach Database

Database Structure Browse Data Edit Pragma Execute SQL

Table: DSJobs_Web_webjobs

id	webjob
1	jobthai
2	jobDB
3	jobBKK
4	jobIndeed

DB Browser for SQLite - C:\Users\nutti\webtech\DSjobs_Web\db.sqlite3

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Attach Database

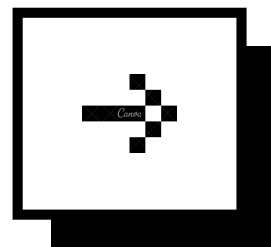
Database Structure Browse Data Edit Pragma Execute SQL

Table: DSJobs_Web_job

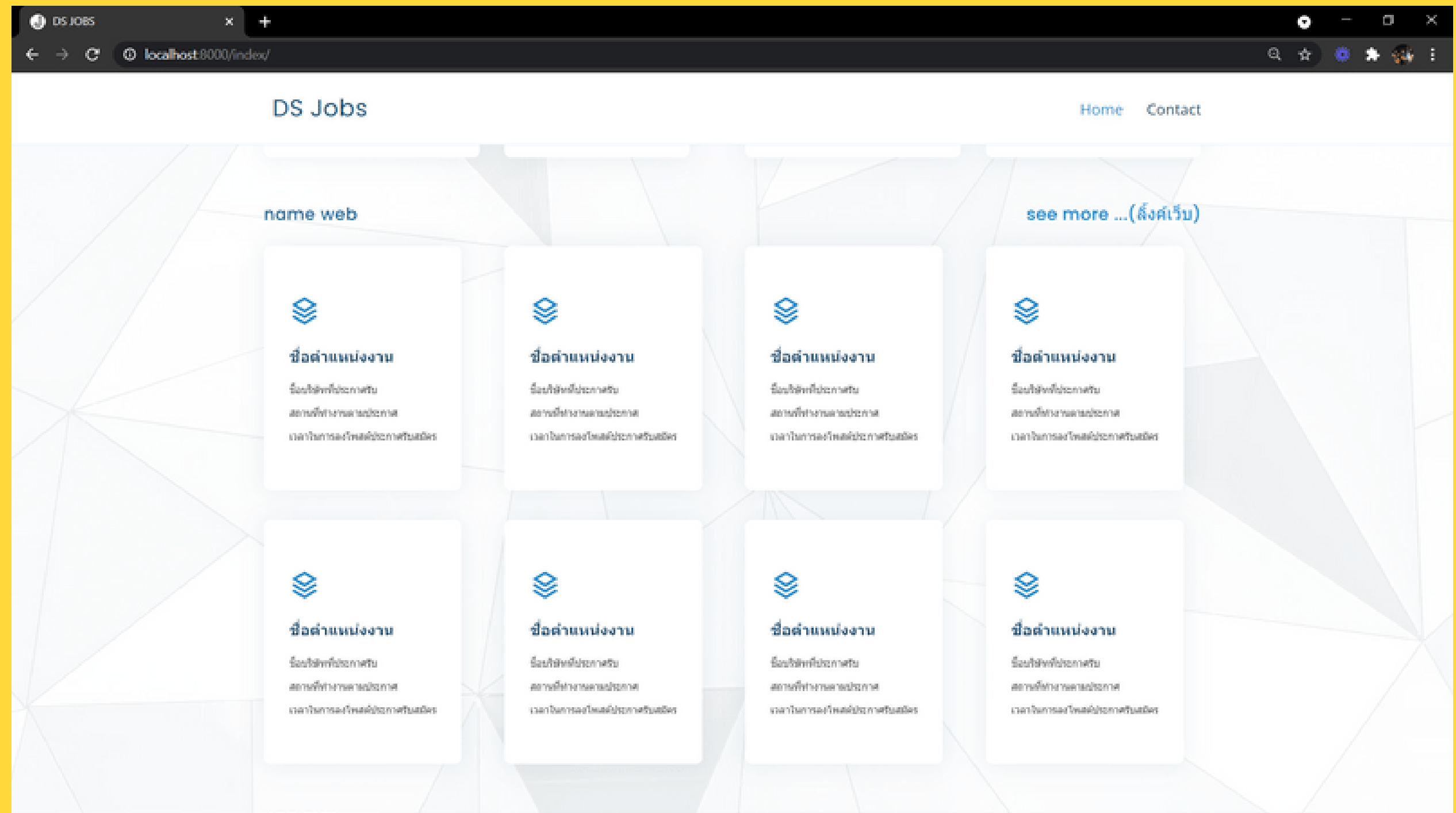
id	jobname	company	location	time	images	webjob_id
1	1 Data Analyst	บริษัท เอสวีไอเอ จำกัด	เขตยานนาวา ...	21 เม...	https://...	1
2	2 Database Specialist	บริษัท สัท โปทเทส...	เขตบางกอก ...	21 เม...	https://...	1
3	3 Data Transformation	กลุ่มท่าอากาศยานกรุงเทพ	เขตยานนาวา ...	21 เม...	https://...	1
4	4 Managment ...	Thai Credit Retail ...	เขตดินแดง ...	21 เม...	https://...	1
5	5 Data analyst/data ...	CdnCloud ...	เขตทวีวัฒนา ...	21 เม...	https://...	1
6	6 Data Analyst	บริษัท เจริญวิทย์ จำกัด	อ.ปากเกร็ด ...	21 เม...	https://...	1
7	7 Data Analyst	Toshiba ...	สวนอุตสาหกรรม...	21 เม...	https://...	1
8	8 Big Data Engineer ...	บริษัท ทีคิวเอ็ม ...	เขตลาดพร้าว ...	21 เม...	https://...	1
9	9 BB Analytics (VP)	United Overseas ...	กรุงเทพมหานคร	5 ...	http://...	2
10	10 Business Intelligence...	Mitr Phol Sugar ...	คลองเตย	5 ...	http://...	2
11	11 Collection Strategic ...	Ngern Tid Lor Publ...	Phayathai	11 ...	http://...	2
12	12 อินเทอร์เน็ตและกิจการ...	SGS (Thailand) ...	ยานนาวา	10 ...	http://...	2
13	13 Senior Data Analyst ...	Ascend Group Co., ...	กรุงเทพมหานคร	1 ...	http://...	2

Create DataBase & import Table from CSV file

DEMO WEBSITE



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DS Jobs


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Data Science Jobs


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JOB THAI


see more ...




Data Analyst
บริษัท แอสทีโอ จำกัด (มหาชน)



Database Specialist
บริษัท อิม ไบรอน จำกัด (Bhatara)



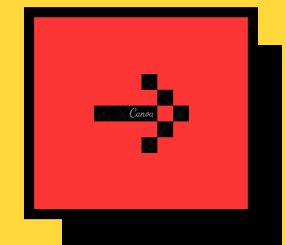
Data Transformation
บริษัท เทคโนโลยีสารสนเทศ



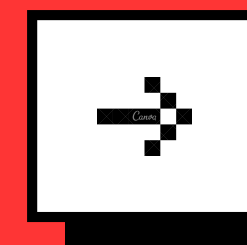
Data analyst/data engineer
CloudCloud, Integration of Data

↑

Let' go , find your lovely job!!!



TEAM :: A1A2



ณัฐริดา ลากรนชัย

620710405



อาทิตยา ชมทอง

620710745

11/12

THANK YOU!

I hope you will find lovely job!

