# Lauren Felton Project Submission Screen Shots & Documentation

## GITHUB Project Files: (zipped too)

<https://github.com/udacity/cd1756-Azure-Applications-project>

Fork: [felton-lauren/cd1756-Azure-Applications-project: From disaggregation of ND181-C1](https://github.com/felton-lauren/cd1756-Azure-Applications-project)

## Screen shots:

Forked github repo: A screenshot of a computer

AI-generated content may be incorrect.

Resource group created:

A screenshot of a computer

AI-generated content may be incorrect.

Storage account creation:

A screenshot of a computer

AI-generated content may be incorrect.

SQL database creation:

A screenshot of a computer

AI-generated content may be incorrect.

Users table creation:

A computer screen shot of a computer

AI-generated content may be incorrect.

A computer screen shot of a computer screen

AI-generated content may be incorrect.

Posts table creation:

A screenshot of a computer

AI-generated content may be incorrect.

Users table proof select statement:

A screenshot of a computer

AI-generated content may be incorrect.

Posts table proof select statement:

A computer screen shot of a computer

AI-generated content may be incorrect.

Storage account endpoints:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Storage account access keys:

A computer screen shot of a computer screen

AI-generated content may be incorrect.

Microsoft entra ID creation: secrets creation:

A computer screen with a white background

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Web app deployment going:

A computer screen shot of a computer

AI-generated content may be incorrect.Web app created!

A computer screen shot of a computer

AI-generated content may be incorrect.

Web app environment variables created:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Deployment center in progress: from my Github repo:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

My first app!!!

A screenshot of a computer

AI-generated content may be incorrect.

It opened!!

All of the resources so far:

A computer screen shot of a computer

AI-generated content may be incorrect.

Signed in w/ Username & Password:

A computer screen with a white background

AI-generated content may be incorrect.

Yay uploaded an image:

A computer screen shot of a person

AI-generated content may be incorrect.

Setting up the direct URIs:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Updated code:

A screenshot of a computer

AI-generated content may be incorrect.

Invalid log in 🡪 log stream: (middle of screen)

A screen shot of a computer

AI-generated content may be incorrect.

Login successful:

A screen shot of a computer screen

AI-generated content may be incorrect.

***Final*** resource group picture:

A screenshot of a computer

AI-generated content may be incorrect.

## Getting Started – Resource information

1. Resource Group

* Resource Group Name: cms

2. SQL Database

* DB name: cms
* SQL Server: cms7.database.windows.net
* DB region: us-east
* Admin login: cmsadmin
* Admin password: CMS4dmin
* Resource group: cms
* DB workload env: Development
* DB compute + storage: DTU - Basic
* Press the "Next: Networking" button, then select "Public Endpoint", and set both of the Firewall rules that appear to "Yes".
* Set everything else to default
* **Run SQL queries in sql\_scripts/ directory after completion, starting from the users table. Don't forget to take screenshots.**

3. Storage Account

* Resource group: cms
* Storage account name: images11
* Advanced - Allow enabling anonymous access on individual containers: Enable
* Advanced - Access tier: Cool
* Network access: Enable public access from all networks (the default)
* Create container named "images". Set its access level to Container.
* From Security + networking > Access keys:
  + Blob Storage key:
    - HV2DNdKBMaW4041FG8FeiE9U8tjclNLfLAgBzrgNrZk82Ys5htosVtuy/QOJ3cgzmmPXGVtwxaN6+ASt7dc/Cg==
  + Blob connection string:
    - DefaultEndpointsProtocol=https;AccountName=images11;AccountKey=HV2DNdKBMaW4041FG8FeiE9U8tjclNLfLAgBzrgNrZk82Ys5htosVtuy/QOJ3cgzmmPXGVtwxaN6+ASt7dc/Cg==;EndpointSuffix=core.windows.net

4. Microsoft Entra ID

4.1. App Registration

* Name: cmsEntraID
* Who can use? "Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)"

4.2. Secret Creation

* Secret description: cmsSecret
* Secret Key: 5cd26c8a-33c1-4cdd-8fce-719897860ba5
* Client Secret: j-W8Q~x6Ro4Fzuur9cjYrxGal11ZLkLIYERQWcOh
* Application (client) ID: 09c2544e-251e-4e39-9ab5-b931cf205d7d

5. Application: Once you have set up the application successfully, you may begin to work on the OAuth2 login feature.

5.2. OPTION 2: Web App

* Name: udacitycms7.azurewebsites.net
* Runtime stack: Python 3.10
* Pricing Plan: Free F1
* If you are getting a "Validation failed for a resource" error, pick a different region.

After creation:

* **Settings** -> **Environment variables** - Add the following variables (sample values are included, replace them with your values):

BLOB\_ACCOUNT: images11

BLOB\_CONTAINER: images

BLOB\_STORAGE\_KEY: HV2DNdKBMaW4041FG8FeiE9U8tjclNLfLAgBzrgNrZk82Ys5htosVtuy/QOJ3cgzmmPXGVtwxaN6+ASt7dc/Cg==

BLOB\_CONNECTION\_STRING: DefaultEndpointsProtocol=https;AccountName=images11;AccountKey=HV2DNdKBMaW4041FG8FeiE9U8tjclNLfLAgBzrgNrZk82Ys5htosVtuy/QOJ3cgzmmPXGVtwxaN6+ASt7dc/Cg==;EndpointSuffix=core.windows.net

SQL\_SERVER: cms7.database.windows.net

SQL\_DATABASE: cms

SQL\_USER\_NAME: cmsadmin

SQL\_PASSWORD: CMS4dmin

CLIENT\_SECRET: j-W8Q~x6Ro4Fzuur9cjYrxGal11ZLkLIYERQWcOh

SECRET\_KEY: 5cd26c8a-33c1-4cdd-8fce-719897860ba5

CLIENT\_ID: 09c2544e-251e-4e39-9ab5-b931cf205d7d

**JSON of the env variables:**

[

  {

    "name": "BLOB\_ACCOUNT",

    "value": "images11",

    "slotSetting": false

  },

  {

    "name": "BLOB\_CONNECTION\_STRING",

    "value": "DefaultEndpointsProtocol=https;AccountName=images11;AccountKey=HV2DNdKBMaW4041FG8FeiE9U8tjclNLfLAgBzrgNrZk82Ys5htosVtuy/QOJ3cgzmmPXGVtwxaN6+ASt7dc/Cg==;EndpointSuffix=core.windows.net",

    "slotSetting": false

  },

  {

    "name": "BLOB\_CONTAINER",

    "value": "images",

    "slotSetting": false

  },

  {

    "name": "BLOB\_STORAGE\_KEY",

    "value": "HV2DNdKBMaW4041FG8FeiE9U8tjclNLfLAgBzrgNrZk82Ys5htosVtuy/QOJ3cgzmmPXGVtwxaN6+ASt7dc/Cg==",

    "slotSetting": false

  },

  {

    "name": "CLIENT\_ID",

    "value": "09c2544e-251e-4e39-9ab5-b931cf205d7d",

    "slotSetting": false

  },

  {

    "name": "CLIENT\_SECRET",

    "value": "j-W8Q~x6Ro4Fzuur9cjYrxGal11ZLkLIYERQWcOh",

    "slotSetting": false

  },

  {

    "name": "SECRET\_KEY",

    "value": "5cd26c8a-33c1-4cdd-8fce-719897860ba5",

    "slotSetting": false

  },

  {

    "name": "SQL\_DATABASE",

    "value": "cms",

    "slotSetting": false

  },

  {

    "name": "SQL\_PASSWORD",

    "value": "CMS4dmin",

    "slotSetting": false

  },

  {

    "name": "SQL\_SERVER",

    "value": "cms7.database.windows.net",

    "slotSetting": false

  },

  {

    "name": "SQL\_USER\_NAME",

    "value": "cmsadmin",

    "slotSetting": false

  }

]

* **Deployment Center**
  + Source: GitHub
  + Pick the repo that contains the starter files.

6. Setting up OAuth2

At this point, your application should already be running. You should already be able to log in with username **admin** and password **pass** and you can create new posts or update existing ones.

The next part is getting the OAuth2 login to work.

Go to **Microsoft Entra ID** > **App Registrations**, click on the App Registration created earlier, and then pick **Authentication** from the left sidebar.

6.1. Microsoft Entra ID - Authentication - Add a Platform - Web

* Redirect URIs: https://[IP ADDRESS FROM VM or WEB APP ADDRESS]/getAToken
* logout URL: https://[IP ADDRESS FROM VM or WEB APP ADDRESS]/login