

PROJECT SPECIFICATION

Deploy An Article CMS to Azure

Resource Group

CRITERIA	MEETS SPECIFICATIONS
All relevant resources are contained in a single resource group.	<p>The resource group must include a Storage Account, SQL Server, SQL Database, as well as any relevant services for deploying the web app.</p> <p>Provide a screenshot of the resource group in Azure, containing your running resources.</p>

Storage

CRITERIA	MEETS SPECIFICATIONS
Create and add article data to a SQL Server in Azure.	<p>A SQL Server is created in Azure and is capable of storing the necessary article data (title, author, body).</p> <p>Provide a screenshot from your SQL database within Azure, showing that both the <code>posts</code> and <code>users</code> tables have been created. Alternatively, if the site is still live, provide the URL for the site.</p>
Create and upload images to a Storage Account.	<p>A Storage Account is created in Azure and is capable of storing the necessary image data for an article.</p> <p>Provide a screenshot from your Storage Account within Azure, with the blob storage endpoint URL visible (can be seen in "Settings" -> "Properties"). Alternatively, if the site is still live, provide the URL for the CMS site to show images are able to be stored and viewed.</p>

Resource Justification

CRITERIA	MEETS SPECIFICATIONS
Analyze, choose, and justify the appropriate resource option for deploying the app.	<p>In the provided <code>writeup.md</code> file, for both a VM or App Service solution for the CMS app:</p> <ul style="list-style-type: none">Analyze costs, scalability, availability, and workflowChoose the appropriate solution (VM or App Service) for deploying the appJustify your choice <p>This does not need to be substantially long, but should include information on all four analysis points for each option, your choice, and at least 2-3 sentences on why you choose that option.</p>
Assess app changes that would change your decision.	<p>In the provided <code>writeup.md</code> file, detail how the app and any other needs would have to change for you to change your decision in the last section.</p> <p>This should be at least 2-3 sentences, but feel free to add as much detail as you feel necessary.</p>

Deployment

CRITERIA	MEETS SPECIFICATIONS
The Python web app is deployed to	The Python web app has been deployed to Azure using the chosen resource in the previous section.

Azure.	As evidence, provide a screenshot of the Python application running from a browser (this can be part of the screenshot in the next section). The screenshot should include the URL and the black header that states "Article CMS". Alternatively, you can provide a link to the deployed app, if it is still live.
The Python web app is able to connect to storage.	<p>The Python web app is able to connect to the related storage solutions.</p> <p>As evidence, provide a screenshot of the Python application running from a browser. The screenshot should include the URL and at least one article containing title, author, body, and an image. Alternatively, you can provide a link to the deployed app, if it is still live.</p>

Security & Monitoring

CRITERIA	MEETS SPECIFICATIONS
Add a functioning "Sign in with Microsoft" option to the app.	<p>The Python web app has an additional, operational option to sign in with Microsoft.</p> <p>As evidence, provide a screenshot of the redirect URIs configured within the App Registration page in Azure. Alternatively, you can provide a link to the deployed app, if it is still live.</p> <p>Additionally, your code in <code>views.py</code> should appropriately implement the Microsoft sign-in button using the <code>msal</code> library.</p>
Access attempts to the app are logged.	<p>Both successful and unsuccessful attempts to access the web app are logged.</p> <p>As evidence, provide a screenshot or download the logs from Azure containing at least one successful and one unsuccessful access attempt, and include in your submission files. If otherwise submitting a URL, please include a link to screenshot/logs in the "Submission Details" box on the project submission page.</p>

Suggestions to Make Your Project Stand Out!

1. Modify both the Python Application and SQL Database to include a Subtitle field. The field should be displayed below the Title field in the screenshot, and deployed with the app.
2. The current application does not allow for the deletion of a created article, or complete removal of an image after one is added (it can only be replaced). Add this functionality to the application.
3. The current application just uses the `admin` account if the user signs in with Microsoft. Adjust the app to better track which user is logged in.