August 26, 2020

Automating updating catalog information

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You work for an online fruit store, and you need to develop a system that will update the catalog information with data provided by your suppliers. When each supplier has new products for your store, they give you an image and a description of each product.

Given a bunch of images and descriptions of each of the new products, you will:

* Upload the new products to your online store. Images and descriptions should be uploaded separately, using two different web endpoints.
* Send a report back to the supplier, letting them know what you imported.

Since this process is key to your business's success, you need to make sure that it keeps running! So, you will also:

* Run a script on your web server to monitor system health.
* Send an email with an alert if the server is ever unhealthy.

| Requirement | Due Date | Done | Initials |
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| Modules required:   * Python Image Library (PIL) * Requests (HTTP Client Library) * ReportLab (PDF Creation Library) * email (Email Construction) * psutil (Processes and system utilization) * shutil (File operations) * smtplib (Sending emails) | | | |
| Outline overview script steps:   1. When a supplier has new products, an image and description of that product will be supplied. (Could be any image format.) 2. When the image and description is received, write a script to automatically upload them separately to two different web endpoints.    1. The image will likely need to be formatted and converted over to one format (jpeg.)    2. The description received will be uploaded separately and also require basic formatting to be displayed on the website. 3. Once the website has been updated with the new products from the supplier, a report needs to be sent back to the supplier in PDF format.    1. Using the ReportLab module, a PDF file can be created with the images and descriptions, formatted accordingly and sent back through the smtplib and email modules. 4. Additionally, to ensure the system the script is running on continues to function, a script must be written that actively monitors the overall health of the system. 5. If an issue is detected, an email is sent to the appropriate address informing them of this issue. | | | |
| Create overview outline. | August 26th | Yes | K.T.H. |
| Script to upload images (convert if necessary.) |  |  |  |
| Script to upload descriptions. |  |  |  |
| Create a PDF report of what’s been imported/uploaded and send it to the supplier. |  |  |  |
| Write a script to monitor system health. |  |  |  |
| Write a script that sends an email if specific system health metrics fall below a certain threshold. |  |  |  |
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