

1. *A fictional customer has many systems in place that generate news daily (e.g. WordPress). What would be your suggestion to integrate it all on the Staffbase App? What steps do you think are required for that?*

I would try to understand their needs and what they imagine this integration to look like. Depending on the response, I would implement one (or combination) of the following.

- I would suggest using the “News” channel under the content section of their Experience Studio. This can be used to manually add news channels and posts.
 - Apart from manually using Staffbase GUI, I could help them with the Staffbase API to integrate with the News section, to create channels and posts.
- If the customer doesn’t want to manually update it each day (using the API), I could help them set up Automatic CSV Import to automatically update News on their app to generate new posts and/or channels.
- I would additionally suggest them to use the “Embedded Pages” Plugin for the purposes of integrating their daily news generating system if they want to preserve the external source’s theme on their Staffbase app.

2. *A fictional customer is trying to set up an automatic CSV import. The code is ready to run, however it is not working. They provided you with the mapping they are using:*

profile-field:firstName,profile-field:lastName,profile-field:position,eMail

- a. *Can you point out what the issue is?*
- b. *What is the server response to a call with that mapping?*
- c. *Please describe the steps you took to solve the problem.*

The issue seems to be the missing **external ID (or Unique identifier)** due to which the mapping isn’t able to work. To solve this problem I would ask/instruct the customer to add a unique ID column to their CSV and/or their mapping to import successfully.

3. *While our CSV import feature is pretty cool and very easy after set up, it lacks support for uploading profile pictures. To support a customer with it, create a script that utilizes our REST API:*
 - a. *To achieve that you need to use the key named “avatar”*
 - b. *You may assume that all relevant images are available in one folder and can be named to your needs.*
 - c. *Feel free to choose any programming or scripting language you prefer.*
 - d. *Please create a Git repository (e.g., Github) and send us the link for code evaluation.*
 - e. *Testing this with a few users/images is fine, but keep in mind this script should also be able to handle thousands of users/images.*

I leveraged Python to solve this problem. The script is attached below and can be found here:

avatar.py : <https://github.com/harshghelani/staffbaseinterview>

- **The only pre-requisite is to put the photos in a folder called “avatars” in the same directory and named as per the Unique Identifier (ID).**

```

import json
import requests
import os

#Define

head = {'Authorization': 'Basic
NjE0YTdmZmM3NWFlYjQ3YmM3MzQ0YmVhOjE0eEokbkRjXkppZyRwZTFWNWRKfWUtbSFxbjs7K3MzeFZ
hezU0OWRmQ2xoUIRLTiRcc31NVEV4aHJNM3coSSg='}

paths = os.listdir("avatars")

media_url = 'https://backend.staffbase.com/api/media'

url_set = []

#Uploading the images
for i in range(len(paths)):

    path = paths[i]

    response =
requests.post(media_url, headers=head, files={"type": "image", "file": open("avatars/{0}".format(path), "r+
b")})

    if response.status_code == 200:

        upload_data = json.loads(response.content.decode('utf-8'))

        url_set.append(upload_data['resourceInfo']['url'])

        print("{0}/{1} Uploaded".format(i+1, len(paths)))

    else:

        print("!!ERROR!! in Uploading {0} of {1}".format(i+1, len(paths)))


#Updating Profiles

ids = [path[:-4] for path in paths]

for i in range(len(ids)):

    api_url = 'https://backend.staffbase.com/api/users/{0}'.format(ids[i])

    avatar_update = {"avatar": url_set[i]}

    reset = {"avatar": "None"}

    response = requests.put(api_url, headers=head, json=avatar_update)

```

Thank you for the opportunity, get back to me in case of anything else. Hope this displays my technical ability to build logical solutions.

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