We need to implement an api which will take a list of user ids (Facebook messenger ids – called PSIDs) and a single label identifier, fetching the users and adding the label to them.

Assume there's an api for fetching the users by user id (psid) and page id. The response should contain a list of missing users (the user api will return None if user is not found).

For associating labels, we need to use facebook batch api to send bulk requests (our api will allow a configurable max number of users).

The facebook batch mechanism needs to be reusable for other purposes.

There should be 2 versions of the api, one which takes a json and one which accepts a csv file upload (which will only contain lines with user ids).

Assume there are models:

class FacebookPage(models.Model):
access_token = models.TextField()
original_id = models.TextField() # Graph id

class FacebookLabel(models.Model):
owner = models.ForeignKey(User)
page = models.ForeignKey(FacebookPage)
label_id = models.TextField()

Facebook apis:

https://developers.facebook.com/docs/messenger-platform/send-messages/broadcastmessages/target-broadcasts#associate_label

https://developers.facebook.com/docs/graph-api/making-multiple-requests/

We use Python 3.5 & Django 1.11 with django rest framework.

Questions for step 2:

How would you handle, if we need to support a very large number of users in the api?