In this assignment you are asked to create a simple API Proxy in Python that combines and caches multiple calls to the C42 API into one single call with a lightweight response. These kind of API Proxies are useful when creating a mobile application (in order to send as little data as possible over the wire) or when combining multiple different API's into one.  
  
Our expectations  
\* First start with outlining how you would tackle the assignment, why you make certain design decisions, why you \* would use certain libraries. (a README.md would be great) Only after that start with any code.  
\* Even if the exercise is not accomplishing all the goals, please don’t doubt in sending us all what you have. A non finished assignment is much better than no assignment.  
\* We use Django, but if you fancy another framework, use that  
\* We fancy reusable components and OOP, hopefully you as well  
\* It's not rocket science we're asking for in the assignment, but try to impress us with its quality :)  
\* Testability, documentation, flexibility, reusability, usability, shinyness ...  
\* Before you start work, init a git repository so you can publish it to GitHub when you're finished  
\* If you're stuck on something, let us know!  
  
## The Assignment itself: A simple API Proxy  
  
In this assignment you're asked to create a GET endpoint /events-with-subscriptions/ that combines two separate calls towards the C42 API into one response that contains the event title and the first names of its attendees.  
  
1) Initial request to your simple proxy server:  
```  
GET: /events-with-subscriptions/$EVENT\_ID/  
```  
  
2) Requests towards C42 API (curl examples to make it easier to get these details right at once)  
```  
# Your personal Token and prepared Event  
TOKEN='' See in email  
EVENT\_ID='' See in email   
```  
  
\_A. Get the event details (including title)\_  
```  
curl --request GET \  
--header "Accept: application/json" \  
--header "Content-type: application/json" \  
--header "Authorization: Token $TOKEN" \  
"<https://demo.calendar42.com/api/v2/events/$EVENT_ID/>"   
```  
  
\_B. Get the event subscriptions (participants including the name)\_  
```  
curl --request GET \  
--header "Accept: application/json" \  
--header "Content-type: application/json" \  
--header "Authorization: Token $TOKEN" \  
--globoff \  
"[https://demo.calendar42.com/api/v2/event-subscriptions/?event\_ids=[$EVENT\_ID]](https://demo.calendar42.com/api/v2/event-subscriptions/?event_ids=%5B$EVENT_ID%5D)"   
```  
  
3) Combine and cache results  
```  
# However you choose to do this  
```  
  
4) Expected final Response on /events-with-subscriptions/$EVENT\_ID/  
```  
# The combination of the two calls should result in the following JSON data structure  
{  
"id": "$EVENT\_ID",  
"title": "Test Event",  
"names": ["Bob", "Ella"]  
}  
```  
  
Note: It is expected that this Proxy also caches the results for 4.2 minutes (see what we did there?), so not every call to the proxy API should lead to a call to the C42 API.  
  
## Documentation about the C42 REST API  
  
For this example you'll be talking to the demo-server of C42:  
\* API Playground: <https://demo.calendar42.com/api/docs/>  
\* Add your token in the top right corner to explore  
\* API documentation: [http://docs.calendar42.com](http://docs.calendar42.com/)  
  
Have fun!

Hi ….,

To get to know each other better we have made a assignment. This way you can show us what you can do and it also shows you what we're doing and how we do it.