Coding Test Django Python

The challenge consists of creating two services:

- user_brithday
- letter_digit

Conditions:

- Make use of docker and docker-compose
- Make use of unit tests
- 1. User Birthday Service
 - a. Create an API endpoint which accepts a list of JSON objects as POST-payload.
 - Store the data in a Postgres Database
 - The email address should be unique
 - All fields are required

Payload Example:

```
1 [
                                                                                                    H
2
        "first_name": "Eike",
3
        "last_name": "Bartels",
        "email": "bartels@baumeister-rosing.de",
5
        "birthday": "01.03.1989",
6
7
8
        "first_name": "Hans",
"last_name": "Peter",
9
10
        "email": "hanspeter@baumeister-rosing.de",
        "birthday": "30.03.1989",
12
13
14
       "first_name": "Jan",
"last_name": "Lumbeck",
"email": "bartels@baumeister-rosing.de",
15
16
17
        "birthday": "02.01.1988",
18
      },
19
     {....},
20
21
      {....}
22 ]
```

b. Create an API endpoint which returns a list of objects, filtered by the following parameters (birthday)

from (example: from=%d%m)

to (example: to=%d%m)

c. Create an API endpoint which returns the average age of all records in the database. Think about caching.

2. Letter Digit

Create an API-Endpoint taking a string with letters and digits and returning a list of all possible upper & lowercase variations.

Example: (a2B => [a2b, a2B, A2b, A2B])