Clean Architecture - Birthday Greeting Kata

Version

V1.1 2022/02/23 Modify notes.

Problem: Write a program

1. You have a set of member records from a db.
2. Get a greeting message to all members whose birthday is today via a RESTful api. (You can design an api to get greeting msg. You don't have to send out an email. The result of api is json data.)

Notes:

1. Please separate your commit instead of a whole huge one.
2. Each version has its own branch.
3. Please consider it as a real product and write any tests if necessary.
4. Any language is ok.

Db records:

	First Name	Last name	Gender	Date of Birth	Email
1	Robert	Yen	Male	1985/8/8	robert.yen@linecorp.com

2	Cid	Change	Male	1990/10/10	cid.change@linecorp.com
3	Miki	Lai	Female	1993/4/5	miki.lai@linecorp.com
4	Sherry	Chen	Female	1993/8/8	sherry.lai@linecorp.com
5	Peter	Wang	Male	1950/12/22	peter.wang@linecorp.com

Version 1: Simple Message

Subject: Happy birthday!
Happy birthday, dear Robert!

Spec by example

Given: a set of member records above,

When: today is 8/8,

Then: we will get the message below when a RESTful api is invoked.

Subject: Happy birthday!

Happy birthday, dear Robert!

Subject: Happy birthday!

Happy birthday, dear Sherry!

Version 2: Tailer-made Message for different gender

Male:

Subject: Happy birthday!

Happy birthday, dear Robert!

We offer special discount 20% off for the following items:

White Wine, iPhone X

Female:

Subject: Happy birthday!

Happy birthday, dear Sherry!

We offer special discount 50% off for the following items:

Cosmetic, LV Handbags

Spec by example

Given: a set of member records above,

When: today is 8/8,

Then: we will get the message below when a RESTful api is invoked.

Subject: Happy birthday!

Happy birthday, dear Robert!

We offer special discount 20% off for the following items:

White Wine, iPhone X

Subject: Happy birthday!

Happy birthday, dear Sherry!

We offer special discount 50% off for the following items:

Cosmetic, LV Handbags

Version 3: Message with an Elder Picture for those whose age is over 49.

Subject: Happy birthday!

Happy birthday, dear `Peter`!

(A greeting picture here)

Version 4: Simple Message with full name

Subject: Happy birthday!

Happy birthday, dear Yen, Robert!

Subject: Happy birthday!

Happy birthday, dear Chen, Sherry!

Version 5: Simple Message but database changes

Subject: Happy birthday!

Happy birthday, dear Robert!

Subject: Happy birthday!

Happy birthday, dear Sherry!

Please choose another way to persist your member data

Ex: mongo db ↔ mysql...

Version 6: Simple Message but different output data format

Subject: Happy birthday!

Happy birthday, dear Robert!

Please choose another output data format

JSON:

```
{
      "title": "Subject: Happy birthday!",
      "content": "Happy birthday, dear Robert!"
}
```

XML:

```
<root>
      <title>Subject: Happy birthday!</title>
      <content>Happy birthday, dear Robert!</content>
</root>
```