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# A Summer of Foodsharing

## Learn How to Code in an Open Source Project

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Kreuzberg



With love  
THIS IS WHAT AN  
ALLY IN THE  
COMMUNITY

**Rails Girls** 

**Help to close the  
gender gap in IT**



# RAILS GIRLS SUMMER OF CODE

JUL – SEPT 2017 ★ WORLDWIDE

OUR 2017 TEAMS!

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**Award-winning program** giving  
scholarships to selected teams.

1

Open Source  
Project

2

Scholars

3

Months  
full-time

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**How does the  
RailsGirls Summer  
of Code work?**

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# Self organised

The screenshot shows a Trello board interface for 'issue #253'. The board is organized into columns representing different tasks or areas of responsibility. Each column has a title and a list of cards. The cards contain specific tasks or actions. The interface includes a top navigation bar with 'Boards' and a search icon, and a bottom bar with 'Add a card...' buttons for each column.

issue #253 ☆ Private

Trello

**code 4 issue**

- rewrite FeedbackModel
- rewrite FeedbackSerializer
- rewrite FeedbackViewSet
- delete signal post\_feedback\_create & perform\_destroy method
- Add a card...

**unit tests**

- do tutorial about tests in python
- with Derek: learn about unit testing in django
- make a plan which unit test we need for our issue
- write first unit test for Foodsaving
- Add a card...

**git & github**

- schedule regular meeting with one of our coaches
- 1 0/2
- Add a card...

**database**

- Set up Pg Admin with Dave
- Check all tables for Foodsaving in Pg Admin
- Learn how to open database in Terminal & practice
- learn about the history table?
- understand difference between json format and json field (ines)
- Add a card...

**docker**

- Marie: adjusts her Dockerfile
- Have a regular lesson with one of our coaches
- Add a card...

**Working style**

- Learn about Agile & Scrum with Daniel in intro lesson
- 1
- Get a lesson from Derek about his working style that we could use (=he is fast!!!)
- Add a card...

**Organizational**

- Add a card...



# Lot's of Coding!

```

class Store(models.Model):
    """Store"""
    name = models.CharField(max_length=100, unique=True)
    description = models.TextField(max_length=1000, blank=True)
    pickup_date = models.DateTimeField(unique=True)
    weight = models.FloatField(blank=True, null=True, validators=[MinValueValidator(-0.01), MaxValueValidator(10000.0)])
    comment = models.CharField(max_length=settings.DESCRPTION_MAX_LENGTH, blank=True)

    def __str__(self):
        return '%s (%s)' % (self.name, self.pickup_date)

    class Meta:
        unique_together = ('pickup_date', 'weight')

class Feedback(models.Model):
    """Feedback"""
    user = models.ForeignKey('users.User', on_delete=models.CASCADE, related_name='feedback')
    store = models.ForeignKey('Store', on_delete=models.CASCADE, related_name='feedback')
    comment = models.TextField(max_length=1000, blank=True)
    pickup_date = models.DateTimeField(unique=True)
    weight = models.FloatField(blank=True, null=True, validators=[MinValueValidator(-0.01), MaxValueValidator(10000.0)])
    comment = models.CharField(max_length=settings.DESCRPTION_MAX_LENGTH, blank=True)

    def __str__(self):
        return '%s (%s)' % (self.user, self.store)

    class Meta:
        unique_together = ('user', 'store', 'pickup_date', 'weight')

```

```
def is_recent_pickup(self):
    return self.about_date >= timezone.now() - relativedelta(days=30)
```



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# A lot of Communication

**Project  
Mentor**

**Rails Girls  
Supervisor**

**Coaches &  
Company**

**In the  
Team**

**Blogposts,  
Twitter**

...

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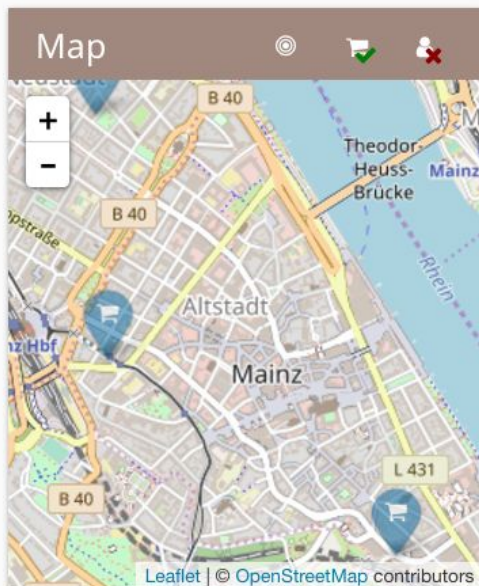
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# Part 1: Our Open Source Project

- > Foodsharing Project
  - > The first Issue
  - > Filtering
-

# Food | saving





## Stores

+ CREATE



Bakery Store

Brotposten

## Schrebergarten

Hello everyone, i talked to the owner and we have daily pickups . We can **call** them first under the number **34234234**. They will let us know if they have anything. Happy Saving!

PICKUPS

HISTORY



Pickups

MANAGE PICKUP DATES

FILTER

SORT

8:30 PM Tuesday, September 19, 2017

ID (1/1)

Leave

8:30 PM Wednesday, September 20, 2017

(0/1)

Join

8:30 PM Thursday, September 21, 2017

(0/1)

Join

8:30 PM Friday, September 22, 2017

(0/1)

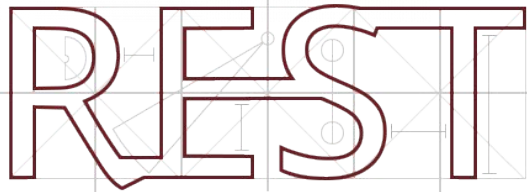
Join

8:30 PM Saturday, September 23, 2017

**Backend**  
Written in



django



framework



# Issue #253

# Feedback for finished pickups #253

Edit

New Issue

! Open

tiltec opened this issue on Feb 23 · 21 comments



tiltec commented on Feb 23 • edited

Owner



For the frontend feature [yunity/foodsaving-frontend#159](#) we need a backend implementation.

I imagine two database fields per collector (user who did the pickup):

- comment: text (for future reference)
- weight: kilograms (for statistical purpose)

These information should be stored together with the pickup. Currently, the pickups (upcoming and finished) are all in one model, but I want to move the finished pickups to a new [history model](#):

An instance of PICKUP\_DONE looks like this:

```
{
  "id": "197",
  "date": "2017-02-22T14:59:22.442526Z",
  "typus": "PICKUP_DONE",
  "group": "5",
  "store": "22",
  "users": [
    "94",
    "90",
    "92",
    "100",
    "108"
  ],
}
```

Assignees



mddemarie

Labels



starter-task

Projects



None yet

Milestone



No milestone

Notifications

🔊 Unsubscribe

You're receiving notifications because you were mentioned.

5 participants







tiltec commented on Feb 23 • edited

For the frontend feature [yunity/foodsaving-frontend#159](#) we need a backend

I imagine **two database fields** per collector (user who did the pickup):

- comment: text (for future reference)
- weight: kilograms (for statistical purpose)

These information should be stored together with the pickup. Currently, they are all in one model, but I want to move the finished pickups to a new [his](#)

An instance of PICKUP\_DONE looks like this:

EASY!



How much time did we need?

1 Week?



**Issue  
#253**

Two weeks?



**Issue  
#253**

—

How much stuff do  
we have to know  
to solve one tiny  
Starter task??!?

Two white sticky notes are shown, slightly overlapping and tilted. The top note has the text 'Git / GitHub' and the bottom note has 'Installation / Docker'. Both notes have a piece of grey tape at the top edge.

Git /  
GitHub

Installation  
/ Docker

**Django**

**Database  
Types**

**Git /  
GitHub**

**REST  
framework**

**Swagger**

**Installation  
/ Docker**

**Flake8**

**HTTP  
status  
codes**

**APIs**

**Python**

**Decorators**

**Mixins**

**Model-  
View-  
Controller**

**PostgreSQL**

**Git**

**Serialization**

**Shell**

**Unit tests**

**JSON**



# Issue #253

2 Months :)

mddemarie and others added some commits on 2 Aug		
added the correct API endpoint feedback	✓ 33da12d	
added the correct API endpoint feedback	✓ 2e69dd5	
corrected API endpoint feedback	✗ b9f091a	
Flaked some files	✗ 68ce735	
changes with flake8	✓ cb80da5	
cleaned up stored.py	✓ 26cc533	
minor changes in url routers	✗ 6baa704	
Merge branch 'master' into feedback3	✓ 38b2a7e	
playing with FeedbackSerializer and FeedbackModel	✗ e150a0f	
deleted the signal post_feedback_create from signals.py and comment i_...	✗ b249a20	
upload the changes in signals.py (which should have been in the previ_...	✗ d104828	
Merge branch 'master' of https://github.com/yunity/foodsaving-backend ...	✓ c223d82	
Merge remote-tracking branch 'origin' into feedback3	232a3c9	
fixing bugs	✗ 71b1c77	
Merge branch 'feedback3' of https://github.com/yunity/foodsaving-backend ...	✗ 940248b	
commented out the fields given_by and about in the feedback model for...	✓ abf0322	
created a first test case, started with another test if the user is n_...	✗ 85f5aa5	
added a new test for which has been added code in serializers.py	✗ 6eaf4b0	
added user validation for feedback serializer	✗ 96cb616	
removed unneeded code from the serializer and added comments to the t_...		

id-gue and others added some commits 25 days ago		
added tilmanns code to the serializer	✗ 6fcd9e	
Merge remote-tracking branch 'origin/master' into feedback3	✗ 7e29335	
added Feedback.objects.create() to SetUpClass in test_feedback_api.py	✗ afea4d2	
added queryset function to api to fix the FeedbackTests for list	✗ 97ca298	
Merge remote-tracking branch 'origin/master' into feedback3	a852bab	
Merge remote-tracking branch 'origin/feedback3' into feedback3	57e97e0	
more tests for getting single feedback with GET.id for non-user, user_...	✓ 65764cd	
1 more test for the feedback in the future + comment clean-up	✓ a622ed1	
Merge remote-tracking branch 'origin/master' into feedback3	fe5c149	

id-gue and others added some commits on 11 Aug		
master changes	✗ f3ce6d7	
added a new test and changed the Feedback validator	✓ a39a2aa	
bug fixing in test_feedback and playing with FeedbackSerializer	✗ fdaec89	
Merge branch 'master' of github.com:yunity/foodsaving-backend into fe_...	33c96aa	
added 1 positive test for displaying feedback as user + uncommented n_...	✗ 2e3d9f8	
flake8	✓ 7046560	
Merge branch 'feedback3' of github.com:yunity/foodsaving-backend into_...	✗ 58d8639	
Merge remote-tracking branch 'origin/master' into feedback3	✗ 911ce98	
added migration	✗ 982c5ea	
flake8 corrections	✗ 92f8b98	
fixed 1 test with failing no group member and extended validate_about...	✗ 4e0ca15	
add tests that fail if you are not assigned to the pickup	✓ a6067f5	
corrected the code in serializers for Feedback, validate_about	✗ eaff340	
Merge remote-tracking branch 'origin/master' into feedback3	✗ 06eae20	
Merge remote-tracking branch 'origin/master' into feedback3	✓ 3d4372c	
minor changes in FeedbackSerializer	9a90ddc	
Merge remote-tracking branch 'origin/feedback3' into feedback3	✗ 7550e84	
fixed the Feedback api test (members / users)	✓ 9177dbc	
added permission IsMember to FeedbackViewSet and three tests for the ...	✗ 6d66fe1	
experimented with FeedbackViewSet, tried to raise Http404 error if th_...	✗ 18ac4bf	
turned one failing into passing test and added one more test + more c_...	✗ 76f798b	

id-gue and others added some commits 19 days ago		
test the feedback model and changed the parameters of the fields weig_...	✓ e99ba1a	
Merge remote-tracking branch 'origin/master' into feedback3	7889a69	
Merge remote-tracking branch 'origin/feedback3' into feedback3	f4d790a	
removed comments and all unnecessary code	✓ d58cb45	
test if feedback can be created if comment to long	✓ de676d4	

1# PULL REQUEST

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**Only 2 database  
fields?!**

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# Feedback

Database

Model

<< comment, weight ...

Serializer

<< JSON

ViewSet

<< API endpoints, filters

## Feedback 01

Given\_by: Marie  
About: 12 (Pickup.id)  
Comment: Yummy  
Weight: 2.5

## Feedback 02

Given\_by: Ines  
About: 42 (Pickup.id)  
Comment: Best Bread  
Weight: 1



## Feedback 01

Given\_by: Marie  
About: 12 (Pickup.id)  
Comment: Yummy  
Weight: 2.5

## Feedback 02

Given\_by: Ines  
About: 42 (Pickup.id)  
Comment: Best Bread  
Weight: 1

Given\_by:  
Marie

01

**auth**[Show/Hide](#)[List Operations](#)[Expand Operations](#)**feedback**[Show/Hide](#)[List Operations](#)[Expand Operations](#)**GET**</api/feedback/>[Feedback](#)**POST**</api/feedback/>[Feedback](#)**GET**</api/feedback/{id}/>[Feedback](#)**PATCH**</api/feedback/{id}/>[Feedback](#)**groups**[Show/Hide](#)[List Operations](#)[Expand Operations](#)**history**[Show/Hide](#)[List Operations](#)[Expand Operations](#)**invitations**[Show/Hide](#)[List Operations](#)[Expand Operations](#)**messages**[Show/Hide](#)[List Operations](#)[Expand Operations](#)**pickup-date-series**[Show/Hide](#)[List Operations](#)[Expand Operations](#)**pickup-dates**[Show/Hide](#)[List Operations](#)[Expand Operations](#)**stores**[Show/Hide](#)[List Operations](#)[Expand Operations](#)



# Filters in api.py

```
class FeedbackViewSet(
    mixins.CreateModelMixin, GenericViewSet
):
    """
    Feedback

    # Query parameters
    - `?given_by` - filter by user id
    - `?about` - filter by pickup id
    - `?store` - filter by store id
    """

    serializer_class = FeedbackSerializer
    queryset = FeedbackModel.objects.all()
    filter_backends = (filters.DjangoFilterBackend,)
    filter_class = FeedbackFilter
```

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    """

    serializer_class = FeedbackSerializer
    queryset = FeedbackModel.objects.all()
    filter_backends = (filters.DjangoFilterBackend,)
    filter_class = FeedbackFilter
```

# Filters in filters.py

```
class FeedbackFilter(filters.FilterSet):

    store = django_filters.NumberFilter(name='about__store__id')
    about = django_filters.NumberFilter(name='about')
    given_by = django_filters.NumberFilter(name='given_by')

    class Meta:
        model = Feedback
        fields = ['store', 'about', 'given_by']
```

# Filters in filters.py

```
class FeedbackFilter(filters.FilterSet):  
  
    store = django_filters.NumberFilter(name='about__store__id')  
    about = django_filters.NumberFilter(name='about')  
    given_by = django_filters.NumberFilter(name='given_by')  
  
    class Meta:  
        model = Feedback  
        fields = ['store', 'about', 'given_by']
```

# Filters in filters.py

```
class FeedbackFilter(filters.FilterSet):  
  
    store = django_filters.NumberFilter(name='about__store__id')  
    about = django_filters.NumberFilter(name='about')  
    given_by = django_filters.NumberFilter(name='given_by')  
  
    class Meta:  
        model = Feedback  
        fields = ['store', 'about', 'given_by']
```

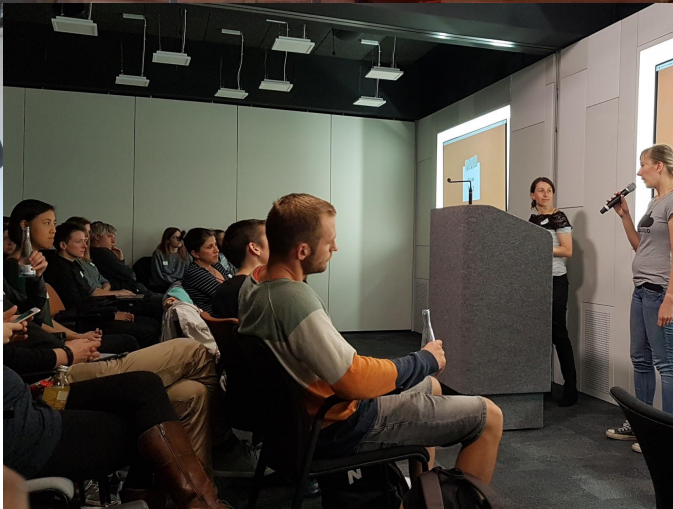
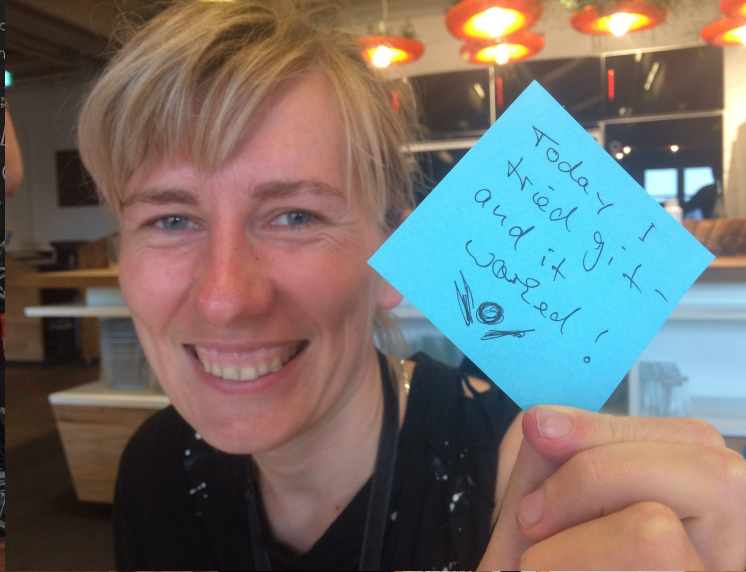
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**It was not always easy,  
but we learned a lot and  
had a great time!**

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Why was RGSoC great?

**Time!**

**Practice Coding!**

**Work at Tech Company!**

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# Benefits of open source projects

**Complexity**

**Community**

**Impact**

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# Part 2: Get involved

- > Roles
  - > How to apply
-



## Apply as a team

Take a look at our Application Guide for students.



## Submit your project

Learn more about mentoring an Open Source project.



## Coach a team

Help us with your experience and become a coach.



## Become a sponsor

Take a look at our packages and perks.

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# How to Apply

Application Guide:

<https://railsgirlssummerofcode.org>

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—  
You!



# 1. Start Early!

When?  
In January!

Deadline?  
**Mid of March!**



— Find a pair



## 2. Find a Teammate

Where?  
Meetups

Same  
programming  
language



Find a workspace



## 3. Coaching company is a key

SoundCloud

Wooga

Absolventa

NextJournal

BitCrowd

Correctiv

Find coaches



## 4. Look for Coaches

Your personal  
tech support

Where:  
Coaching company,  
Meetups, Twitter ...

Choose a project



# 5. Choose a Project

Contact  
project  
mentor

Discuss

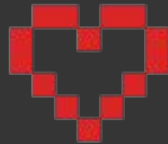
---

Code together with your  
teammate, write RGSoC  
application ...

**Apply**

—  
**Thanks to Ana, Daniel,  
Dave, Derek, Stefan and  
Kasia, Nick, Tilmann, Duana  
as well as:**

**Rails Girls**  
Summer of Code



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# Happy coding!

[railsgirlssummerofcode.org](http://railsgirlssummerofcode.org)

[foodsaving.world](http://foodsaving.world)

Marie @mddemarie

Ines @dankefish

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