

PROJECT REQUIREMENT FORM

Project title

SpareFoodShare

Customer name

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Project advisor

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Project description

The UK throws away around 9.5 million tonnes of food waste in a single year – even though 8.4 million people in the UK are in food poverty.

There are many different causes of food waste but the leading causes are shops, supermarkets, or restaurants ordering too many products that will not sell. Or generally, lack of awareness of expiry dates, meaning that food is left to spoil instead of being used.

Are there times when you have had items in the fridge or cupboard that you cannot use before its use by date but cannot find it easy to give someone else who might need it?

This project aims to make sharing sparefood easy for various neighbourhoods in the UK. Users of the service would be able to list food items and their expiry dates while others would be able to indicate interest and collect the items in a safe location. The application shall make it easy to share food listings on social media sites and WhatsApp.

Some useful Links

1. <https://stripe.com/docs/api>
2. <https://developer.paypal.com/docs/api/overview/>

Features list

What are the key features of the software? Please list at least 8

1. The application shall allow all users to register and log in before they can list food items or book a collection.
2. All users of the application shall be required to login and validate their email address the first time they login.

3. It would be possible to register as either a business user or an individual user.
4. The application shall allow individuals to list the food items they have for collection. This would involve providing a picture, the expiry date and some description about the item for others to see.
5. Business users would have the ability to bulk upload items via a CSV or excel file.
6. Users who are interested in these listings would be able to get in touch with the user who listed the item to Collect them by arranging a place to pick it up.
7. Users who are interested in these listings should be able to send voice notes to the user who listed the item, who is then able to see it as a text or listen to the message.
8. Once a listing has been collected or a collection agreed for a listing, it should not be visible on the public site.
9. Once a listings use by date has passed, the listing would be automatically removed from the public page, but it should still be possible to see the listing and the person who collected the item in the admin area.
10. It would be possible for users listing items to request a small fee, such that rather than the spare food being given away for free, there is a charge for it.
11. The application shall make use of paypal and stripe for payment collection.
12. The application shall allow users to private list items that are in their cupboards and remind them of the expiry or use by date, once the date gets close, they would get notifications to list the items publicly.
13. The application shall be made as secure as possible and should not at any point store credit or debit card details of individuals willing to donate.
14. As this project deals with sensitive data, the client advises the teams to only make use of sandbox environments of PayPal and Stripe.
15. The application shall make it easy for the listing links to be easily shared using social media.
16. The application shall make it easy for site administrators to manage information about the projects listed via a secure admin area.
17. The application shall contain a dashboard where the site administrators can see a snapshot and graph of relevant metrics- number of listings, number of collections, total amount charged and several others over a defined period.
18. The application shall make it possible to generate PDF reports for the various data stored.

Application users

Who are the primary users of the application?

The primary users of the application are the site administrators, individual users and business users willing to list food items for collection.

Programming language required

What programming language does the customer require students to use?

Python, PHP or Java

Database required

Does the system require a database?

What database does the customer require students to use?

Yes, it will likely require a database. Ideally, MYSQL/MariaDB should be used.

Data provided

What data (or document) is the customer providing?

Links to various payment and social media APIs have been provided. Upon request, the client can provide relevant data if necessary.

Out of scope

What is considered out of scope?

N/A