

Food Waste

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Summary

The primary objective of the second laboratory assignment is to design the system and required changes. While in the first laboratory work we analysed business and all its processes, this time the attention on existing system and the changes.

The main tasks of this iteration:

1. Allergens feature
2. E2E test
3. Document the E2E test
4. Viewpoints
5. Perspectives
6. Traceability tables

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1 Viewpoints

1.1 Context viewpoint

- Allergens are properties of food products that are likely to cause unwanted reactions with allergic individuals.
 - All food offerings may contain a list of allergens that have to be set by the restaurant
 - All users may provide a list of allergens that are dangerous to them
- System will use the user and product allergen information to:
 - Alert if user is trying reserve product that may be dangerous to the individual
 - Provide easy filtering of allergic products (in the future)

1.2 Functional viewpoint

- Each restaurant will have an option to add allergens to products:
 1. While creating offers
 2. Anytime while offer is not reserved
- Each restaurant will have an option to remove allergens from offers anytime while products are not reserved
- Each user will be able to add allergens to their profile anytime

1.3 Information viewpoint

- Allergen entity contains name, Annex 2 name, severity: [May contain, Contains]
- Product entity contains list of allergens
- User entity contains list of allergens that are dangerous to them

1.4 Concurrency viewpoint

Not applicable. Allergens are properties, not processes that could happen concurrently.

1.5 Development viewpoint

Allergen in FoodWaste system is not a major architectural component. Allergen lists are attached to major components such as product and user, however, they do not interfere with current usage of these entities and their functionality (except for the alert if trying to reserve allergic foods). In the future, it should be easy to implement allergen filtering on main page (for better user experience).

1.6 Deployment viewpoint

Allergens are properties, not major components that change the program environment or its execution. Deployment will not differ from other feature deployments (A/B testing in production environment for part of the users and if there are no incidents - major release).

1.7 Operational viewpoint

- Users will provide their allergens when registering or anytime when using Food-Waste
- Users will be alerted if trying to reserve products they are allergic to
- Restaurants will have to provide allergen list for their current products and each time when creating new offers