

Acme Meals

C-level requirements

Information requirements

- The actors of the system are users, and administrators. The system must store their names, surnames, and email addresses; optionally, it might also store a phone number and a postal address.
- The system has a new kind of actor: restaurant. For every restaurant, the system must store the name of the restaurant, the phone, city, address, email, picture, type of restaurant, average of stars, a valid credit card, if they have a delivery service and optionally the cost of the delivery and the minimum amount.
- A restaurant can create his meals. Every meal has a title, description, a price and a category.
- A user, can make an order to a restaurant. An order has a moment, a credit card, amount, status('DRAFT', 'PENDING', 'INPROGRESS', 'FINISHED') and if it is for pick up or for deliver.
- Users can comment on a restaurant. A comment has a title, text, date, and stars(1-5).
- Restaurants can register their social identities. Such identities consist of a nick, the name of a social network, a link to that social network, and an optional picture.
- The system can issue invoices to users. For every invoice, it must store the moment when it's issued, Acme meals' VAT number, some information about the user, the total amount due (in EURO), and the credit card that was used to pay it.
- The system must store the following information about credit cards: a holder name, a brand name, a number, an expiration month, an expiration year, and a CVV code, which is an integer between 100 and 999.

Functional requirements

- An actor who is not authenticated must be able to:
 - o Register to the system as a user.
 - o Register to the system as a restaurant.
 - o Browse the catalogue of restaurants, to their meals.
 - o Search restaurants by a keyword. This keyword must appear in their names,

category or address.

- An actor who is authenticated as a user must be able to:
 - o Do the same as an actor who is not authenticated, except for registering to the system.
 - o Edit personal data.
 - o Make an order to a restaurant.
 - o List and display his/her orders. Edit or delete the order if the status is 'DRAFT'.
 - o List his or her invoices.
- An actor who is authenticated as a restaurant must be able to:
 - o Manage his meals, which includes creating, listing, editing and deleting them.
 - o Manage received orders. Only can change the status.
 - o Manage his categories, which includes creating, listing, editing and deleting them.
- An actor who is authenticated as an administrator must be able to:
 - o Manage the VAT number of Acme Meals.
 - o Display a dashboard with the following information:
 - The minimum, the maximum and the average number of orders per user.
 - The restaurant with more orders.
 - The restaurant with less orders.
 - The ratio of restaurants with social identity.

Non-functional requirements

- The system must be available in English and Spanish.
- The system will be run in Spain, so it must comply with the Spanish regulations except for the following ones: a) the requirement in LOPD regarding keeping files and communications secure and confidential; b) the requirement in LSSI regarding informing the Chamber of Commerce about your internet domain.
- The system must be as efficient as possible.
- Pictures are not required to be stored by the system, but referenced by means of their URLs.
- The validity of a credit card must be checked as follows: a) its number must be run through Luhn's algorithm to checksum it; b) the expiry date must be confirmed to be at least seven days in future.
- Wherever a credit card is shown, it must be masked, i.e. only the leading and trailing four digits must be readable; the others must be displayed as asterisks.

B-level requirements

Information requirements

- The system has a new kind of actor: critic. For every critic, the system must store the name of the company for which he or she works.
- Critic can create reviews of restaurants. This reviews have a title, text, and rate. An critic is not allowed to write more than one review per restaurant.
- Users can give like or dislike to the reviews.

Functional requirements

- An actor who is authenticated must be able to:
 - o Browse the catalogue reviews.
- An actor who is authenticated as a user must be able to:
 - o Give like or dislike to a review.
- An actor who is authenticated as a critic must be able to:
 - o Do the same as an actor who is authenticated.
 - o Manage his or her reviews this include creating, deleting and listing them.
 - o A listing with his or her reviews sorted according to the number of likes that they have got.
- An actor who is authenticated as an administrator must be able to:
 - o Display a dashboard with the following information:
 - The minimum, the maximum and the average number of reviews created per critic.
 - The restaurant with more reviews.
 - The restaurant with less reviews.
 - The review with more likes.

Non-functional requirements

- A random review will be announced on the homepage.

A-level requirements

Information requirements

- A restaurant can pay to be promoted on welcome page. The system must store the beginning and ending date of the promotion.
- On the welcome page will be shown the picture of one restaurant promoted and a link to display his profile. The pictures will alternate every time that you go to the welcome page.
- An administrator generates the monthly bills and associates them with the restaurant. For every monthly bill, the system must store the moment when it is created, the moment when it is paid and the cost. The cost is computed based on the number of times that the restaurant have been displayed on welcome page; a fee that can be configured by administrators is applied every time a restaurant is displayed on welcome page.

Functional requirements

- An actor who is authenticated as a restaurant must be able to:
 - o Can request be promoted.
 - o List and display his monthly bills.
- An actor who is authenticated as an administrator must be able to:
 - o List paid and unpaid monthly bills.
 - o Display a dashboard with the following information:
 - The maximum, the minimum and the average number of monthly bills per restaurant.
 - The ratio of restaurants promoted.

Non-functional requirements

Intentionally blank

A+ level requirements

In Acme Meals, we want another design style for our web-page. We recommend use the Bootstrap for giving us a new and nice design for our web-page. We ask for:

A report in which you explain how this Bootstrap technology works and how this technology is implemented in the project. The report is expected to be 1 000-word long; illustrations are strongly recommended.