

# System Requirements and Analysis Document

DP1 2020/21

## Project <Las Tabernas>

<https://github.com/gii-is-DP1/dp1-2020-gi-01>

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### Version history

Date	V	Description
30/10/20	0.1	Document creation.
4/11/20	0.2	Changes to user stories.
6/11/20	0.3	Translation to English of some sections.
6/11/20	0.4	Finished user stories and business rules.
7/11/20	0.6	Added mockups of the user interface and the project planning.
8/11/20	0.7	Finished the first deliverable including the version history and the metrics of the project.
10/11/20	0.8	Fixed the errors highlighted in the first review.

## General description of the project

The system in development fulfils three fundamental functions for Tabernas Sevilla's business model – provide information about the menu and establishments, order food (for take away, delivery, pickup or eat in) and reserve a table. The system will consist in a web application. A fully interactable menu will be developed from which users can select which dishes from Tabernas Sevilla's extensive menu they wish to order and which of the 4 locations throughout Seville to collect or eat at. The system should handle estimations as well from order readiness.

In addition, it should implement the functionality to manage the bar's capacity; being able to make table reservations with time selection, and if desired, also pre-ordering dishes. This later point helps to solve one of the basic problems of the business, the management of the waiting list, which is currently done by hand by the waiters.

## User Types and Roles

**Admin/Owner:** *maximum responsible of a restaurant or a chain of restaurants. He has all permissions to the system.*

**Manager:** *skilled person with experience who is in charge of an establishment. He has permissions to manage the staff at the establishment he is in charge of.*

**Waiter:** *Person in charge of taking orders and serving them to customers or readying them up for delivery.*

**Cook:** *Person in charge of preparing and cooking food.*

**Customer:** *A registered user in the system that wishes to place an order.*

## User Stories

### **S1 - Waiter's Rating**

*As a customer I want to be able to rate the waiters in the restaurant so that other customers can have more opinions.*

#### **Positive Scenarios**

##### **S1+E1 - Rate waiter**

*Since we are authenticated in the system as user1 and we have been in the restaurant, when we click on the rating link and press the waiter rating button, once we give it a 4 star rating and as a comment: "Overall the service was very good. The waiters were attentive at all times to any request we made. The only negative aspect is that we had to wait 10 minutes even though we had made a reservation.", after pressing the send rating button, then the application shows us the home page and indicates that the rating has been sent successfully.*

#### **Negative Scenarios**

##### **S1-E1 - Rate waiter without review**

*Since we are authenticated in the system as user1 and we have been in the restaurant, when we click on the rating link and press the waiter rating button, once we give it a 4 star rating and as a comment: "", after pressing the send rating button, then the application shows us again the form of ratings and tells us to write a small review to rate the waiter.*

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## **S2 - Order history**

*As a customer I would like to be able to see my order history so that I can repeat an order I have already placed.*

### **Positive Scenarios**

#### **S2+E1 - View history**

*Since we are authenticated in the system as user1 and have already placed several orders previously, when we click on the order link and we press the button to see previous orders, once we have selected the order dated 01/09/2020, which contained "Sirloin with Roquefort" and "Cheese filled croquettes", after pressing the repeat order button, then the application will redirect us to the order form and will auto-fill in the field corresponding to the content of the order.*

### **Negative Scenarios**

#### **S2-E1 - View empty history**

*Since we are authenticated in the system as user1 and have not placed any orders before, when we click on the order link and press the button to see previous orders, once we can't select an order because there are no previous orders, then the application will redirect us to the order page and tells us that the order history is empty.*

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## **S3 - Web Booking**

*As a client I wish to be able to book a table from the website and, optionally, the food I will eat to speed up the process and be waiting less time.*

### **Positive Scenarios**

#### **S3+E1 - Book a place**

*Since we are authenticated in the system as user1, and there is room in the establishment when we click on the booking link on the page and press the button to request a reservation, once we choose the establishment "Arenal" and the time "14:20", after pressing the send reservation button, then the application shows that reservation has been saved and sent to the establishment.*

### **Negative Scenarios**

#### **S3-E1 - Book a place without specified location and time**

*Since we are authenticated in the system as user1, and there is room in the establishment when we click on the booking link on the page and press the button to request a reservation, once we choose the establishment "" and the time "", after pressing the send reservation button, then the application shows us the edit form again and tells us that both the date and time fields are mandatory.*

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## **S4 - Promotions**

*As a customer I want to see the promotions available on the web to access the best offers.*

**Positive Scenario**

S4+E1 - View promotions

*Since we are authenticated in the system as user1 and that there are promotions available, when we click on the promotions link and press the button to see current promotions, once we enter "Arenal" as the closest restaurant, after pressing the confirm button, then the application shows us the list of promotions currently available.*

**Negative Scenario**

S4-E1 - View promotions without restaurant

*Since we are authenticated in the system as user1 and that there are promotions available, when we click on the promotions link and press the button to see current promotions, once we enter "" as the closest restaurant, after pressing the confirm button, then the application shows us the promotion form again and tells us that the restaurant field is mandatory.*

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**S5 - Rate**

*As a customer I want to evaluate the different dishes I eat to give my opinion and serve as a reference to other customers.*

**Positive Scenario**

S5+E1 - Rate dish

*Since we are authenticated in the system as user1 and we have been in the restaurant, when we click on the rating link and press the dishes rating button, once we select "Serranito de pollo" as dish, we give it a 3 star rating and as a comment: "The bread was not toasted, so the food lost some of its potential. The chicken breast was really tasty, as was the tomato. The chips were rather cold" , after pressing the send rating button, then the application shows us the home page and indicates that the rating has been sent successfully.*

**Negative Scenario**

S5-E1 - Rate dish without comment

*Since we are authenticated in the system as user1 and we have been in the restaurant, when we click on the rating link and press the dishes rating button, once we select "Serranito de pollo" as dish, we give it a 3 star rating and as a comment: "", after pressing the send rating button, then the application shows us again the form of ratings and tells us to write a small review to rate the dish.*

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**S6 - Digital control**

*As a cook I want to see the details of the order to attend to them chronologically and guarantee customer satisfaction.*

**Positive Scenario**

S6+E1 - Show details of an order

*Since we are authenticated in the system as a cooker1, and there are orders on hold, when we click on the backorder link and click on the button to sort orders by delivery time, once we choose the order "#2365732" made at 8:40 PM, after clicking on the show details button, then it shows the order data on the screen.*

**Negative Scenario**

S6-E1 - No orders at the moment

*Since we are authenticated in the system as a cooker1, and there are no orders on hold when we click on the backorder link and click on the button to sort orders by delivery time, once we try to choose any order, then the message "No orders currently" is displayed.*

**S6-E2 - Not logged in as cooker1**

*Since we are not authenticated in the system as a cooker1, then the backorder section will not be displayed.*

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**S7 - Online menu**

*As a customer I would like to be able to see the menu on the website with photos to have a proper preview of the dishes on offer.*

**Positive Scenario**

**S7+E1 - Show menu**

*Since we are authenticated in the system as user1 and that there is a menu assigned to each restaurant, when we click on the link of restaurants and we press the button to see the menu, once we put as the name of the restaurant "Arenal", after pressing the button to confirm, then the application shows us all the foods and drinks that are offered in that establishment with their respective photos.*

**Negative Scenario**

**S7-E1 - Show menu without restaurant**

*Since we are authenticated in the system as user1 and that there is a menu assigned to each restaurant, when we click on the link of restaurants and press the button to see the menu, once we put as the name of the restaurant "", after pressing the button to confirm, then the application tells us that it is mandatory to specify a restaurant.*

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**S8 - User registration**

*As a customer I would like to be able to register on the website so that I do not have to give my details every time I place an order.*

**Positive Scenario**

**S8+E1 - User2 registration**

*Since we are not authenticated in the system and we want to register as a user2, when we click on the link to log in and press the button to create account, once we enter as username "user2", as email "[user2@gmail.com](mailto:user2@gmail.com)" and as password "me1gusta2el3atun", after pressing the button to complete registration, then the application indicates that the registration has been successful.*

**Negative Scenario**

**S8-E1 - User2 registration without username, password and email**

*Since we are not authenticated in the system and we want to register as a user2, when we click on the link to log in and press the button to create account, once we enter as username "", as email "" and as password "", then the application shows us the registration form again and tells us that the user name field, the password field and the email field are mandatory.*

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**S9 - New workers**

As an admin or manager, I want to be able to register new cooks or waiters into the system to give them the necessary permissions to be able to perform their functions.

**Positive Scenario**

Since we are authenticated in the system as admin1 and that we want to register cooker3 in the system, when we click on the register link and press the add cook button, once we put as username "cooker3" If you enter the password "12345678" and the email address "cocinero23@gmail.com", then the application shows the list of cooks and cooker3 appears in the list with the credentials provided.

**Negative Scenario**

Since we are authenticated in the system as admin1 and that we want to register cooker3 in the system, when we click in the link of register and we click in the button of add cook, once we put as user's name "", as password "" and as email "", then the application shows us the registration form again and indicates us that the field user's name as the description are obligatory.

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**S10 - Emergency Orders**

As a manager I want to know the estimated time of delivery of the orders to prioritize those that require more speed.

**Positive Scenarios**

**S10+E1 - Accelerate orders**

Since we are authenticated in the system as manager1, and that it has one or more pending orders, when we click on the order link and press the view order details button, once we select order #8236236 and see its estimated time of delivery, if this is earlier than the current time, we mark the order as urgent after pressing the confirm button. The application then shows us the new order details and tells us that the order has been marked as a priority.

**Negative Scenarios**

**S10-E1 - No orders**

Since we are authenticated in the system as a manager1, and there are no orders on hold when we click on the order link and press the view order details button, once we try to choose any order, then the message "No orders currently" is displayed.

**S10-E2 - Not authenticated as manager1**

Since we are not authenticated in the system as a manager1, then the section "Orders to be carried out" will not be displayed.

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**S11 - Estimated time**

As a client I would like to have an estimate of the time I will be able to be attended if I have not booked in advance so as not to be waiting in vain.

**Positive Scenarios**

**S11+E1 - Get estimated time**

Since we are authenticated in the system as user1, and we want to go to the restaurant without having made a reservation, when we click on the link to the establishments and, once we enter "Arenal" as restaurant and press the button to see the estimated time to be attended, it then indicates the time at which we will be served according to the current capacity of the establishment.

### **Negative Scenarios**

#### **S11-E1 - Get estimated time in a restaurant not open**

Given that we are authenticated in the system as user1, that we want to go to the restaurant without having made a reservation and that the option of getting an estimated time from each establishment is not available because it is closed, when we click on the establishments link on the page and press the button to see the estimated time, once we choose "Arenal" as establishment , then the following message is displayed: "This establishment is currently closed. Estimated time is only available during opening hours".

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#### **S12 - Allergen filtering**

As a customer I would like to be able to filter the menu according to allergens to avoid food poisoning.

##### **Positive Scenario**

#### **S12+E1 - Get allergen-free dishes**

Since we are authenticated in the system as user1, when we go to look for dishes that are lactose free because we are allergic, then the application will show us all the dishes that are lactose free.

##### **Negative Scenario**

#### **S12-E1 – No dishes without allergen**

Since we are authenticated in the system as user1 and all the dishes in the restaurant have lactose, when we go to look for dishes that do not have lactose because we are allergic, then the application will indicate us: "No dishes are found that do not contain the allergen you have specified"

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#### **S13 - Order status**

As a customer I would like to be able to see the status of the order and the time remaining for delivery so that I can plan the collection.

##### **Positive Scenario**

#### **S13+E1 - Check order status**

Since we are authenticated in the system as user1, and there are orders pending delivery, when we click on the orders link, once we access the most recent order after clicking on the order details button then the application shows us the status of the order and the time remaining for it to be delivered.

##### **Negative Scenario**

#### **S13-E1 - Check status if no order is pending**

Since we are authenticated in the system as user1, and there are no pending orders, when we click on the order link, once we access the most recent order after clicking on the order details button then the application tells us that there are no pending orders to be delivered.

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#### **S14 - Cancel reservation**

As a client I would like to be able to cancel the reservation I have previously made so that I can be reimbursed on time.

##### **Positive Scenario**



**S14+E1 - Reservation cancelled in time**

*Since we are authenticated in the system as user1, and we have made a reservation, when we click on the link of my reservations and press the button to cancel the reservation, whenever there is more than one hour left for the reserved time then the data is deleted and the reservation is cancelled.*

**Negative Scenario**

**S14-E1 - 1h or less to go**

*Since we are authenticated in the system as user1, and have made a reservation previously when we click on the link to my reservations and press the cancel reservation button, if there is no more than one hour left to the reserved time then an error message will appear saying: "You can cancel the reservation up to one hour before the reserved time. If not, 15 minutes after the booked time, you will lose the reservation and the amount paid will not be refunded".*

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**S15 - Dishes ranking**

*As a customer I would like to see a ranking with the best valued or most demanded dishes to facilitate my choice.*

**Positive Scenarios**

**S15+E1 - Show ranking**

*Since we are authenticated in the system as user1, and there is a ranking for each establishment when we click on the link of establishments of the page and we click on the button to see the ranking, once we choose the establishment we want, then the ranking of the establishment is shown.*

**Negative Scenarios**

**S15-E1 - The establishment has not been assigned an online charter**

*Since we are authenticated in the system as user1, and there is no ranking assigned to each establishment when we click on the link of establishments of the page and we press the button to see the ranking, once we choose the establishment we want, then it is shown by screen "At this moment the establishment does not have available a ranking".*

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**S16 - Make an order**

*As a customer I want to place orders, either to be picked up locally or to be sent to the address you specify so that I could choose the best option for me.*

**Positive Scenario**

**S16+E1 - Order by selecting the location you want to pick up**

*Since we are authenticated in the system as a user1, when we click on the order link on the website and press the place order button, once we have indicated "Collect from premises" as the delivery method, we select "Arenal" as the restaurant and, after pressing the finish order button, the application then shows us the details of our order and confirms that our order has been placed correctly.*

**Negative Scenario**

**S16-E1 - Order without specifying a delivery address**

*Given that we are authenticated in the system as user1, when we click on the order link on the website and press the order button, once we indicate "Home delivery" as the delivery*

*method and "" as the delivery address, after pressing the finish order button, then the application shows us the edit form again and indicates that the address field is mandatory.*

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### **S17 - Capacity**

*As a customer I would like to know the current capacity of the establishment so that I can go if it is not full.*

#### **Positive Scenarios**

##### **S17+E1 - See current capacity**

*Since we are authenticated in the system as user1, and we can see the current capacity of each establishment, when we click on the link of establishments of the page and press the button to see capacity, once we choose the establishment we want, then the capacity of the establishment is shown.*

#### **Negative Scenarios**

##### **S17-E1 - Current seat not available**

*Given that we are authenticated in the system as user1, and that the option to see the current capacity of each establishment is not available because it is closed, when we click on the link of establishments on the page and press the button to see the capacity, once we have chosen the establishment we want, then the following message is displayed: "This establishment is currently closed. Capacity is only available during opening hours".*

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### **S18 - New dish**

*As a manager or admin, I want to introduce a new dish to the system to expand the menu.*

#### **Positive Scenario**

##### **S18+E1 - Añadir nuevo plato**

*Since we are authenticated in the system as admin1, and we want to introduce a new dish in the restaurant's menu, when we introduce the ingredients, the title, the allergens and the photos of the dish, then the page will indicate that the dish has been added correctly.*

#### **Negative Scenario**

##### **S18-E1 - Añadir nuevo plato sin descripción**

*Since we are authenticated in the system as admin1, and we want to introduce a new dish in the restaurant's menu, when we enter the title, the allergens, the photos, but not the ingredients of the dish, then the page will indicate that the dish could not be added and will show us the following message: "All fields are required. The ingredients field is empty".*

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### **S19 - Unemployment**

*As a user I would like to be able to send my CV to apply for a job.*

#### **Positive Scenarios**

##### **S19+E1 - Submit your resume**

*Since we are authenticated in the system as user1, when we click on the contact us link and we click on the send CV button, once we fill in the form and attach our CV in pdf format then the page indicates that the form has been sent correctly.*

#### **Negative Scenarios**

**S19-E1 - Send your CV without attaching a file**

*Since we are authenticated in the system as user1, when we click on the contact us link and we click on the send CV button, once we fill in the form and we do not attach any document, then the page indicates that it is mandatory to attach at least one file.*

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**S20 - Subscribe to the newsletter**

*As a client I would like to be able to subscribe to the Tabernas Sevilla newsletter to keep up to date with the latest news.*

**Positive Scenarios**

**S20+E1 - Subscribe to the newsletter**

*Since we are authenticated in the system as user1, when we are on the home page and we press the button to subscribe to the newsletter, then the application indicates that we have subscribed correctly.*

**Negative Scenarios**

**S20-E1 - Subscribe to the newsletter**

*Since we are authenticated in the system as user1 and we are already subscribed to the newsletter, when we are on the home page and press the button to subscribe to the newsletter, then the application tells us that we were already subscribed previously.*

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**S21 - Comment the review**

*As admin, I want to be able to leave a comment on a review written by a customer – be it for a dish or service to interact with customers.*

**Positive Scenarios**

**S21+E1 - Comment submitted**

*Since we are authenticated in the system as manager1, when we click on the reviews link and we click on the add comment button, once we fill in the comment, then the page indicates that everything is OK and the comment is uploaded.*

**Negative Scenarios**

**S21-E1 – Missing comment**

*Since we are authenticated in the system as manager1, when we click on the reviews link and we click on the add comment button, once we don't fill in the comment, then the page indicates that the message is missing.*

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**S22 - Order denied**

*As a staff member, I want to be able to deny a customer an order and specify a reason so that they understand the impossibility of fulfilment*

**Positive Scenarios**

**S22+E1 - Denied**

*Since we are authenticated in the system as manager1, when we click on the orders link and we click on the deny order button, once we fill in the reason, then the page indicates that everything is OK and the order gets deleted.*

**Negative Scenarios**

S22-E1 – Can't deny without a reason

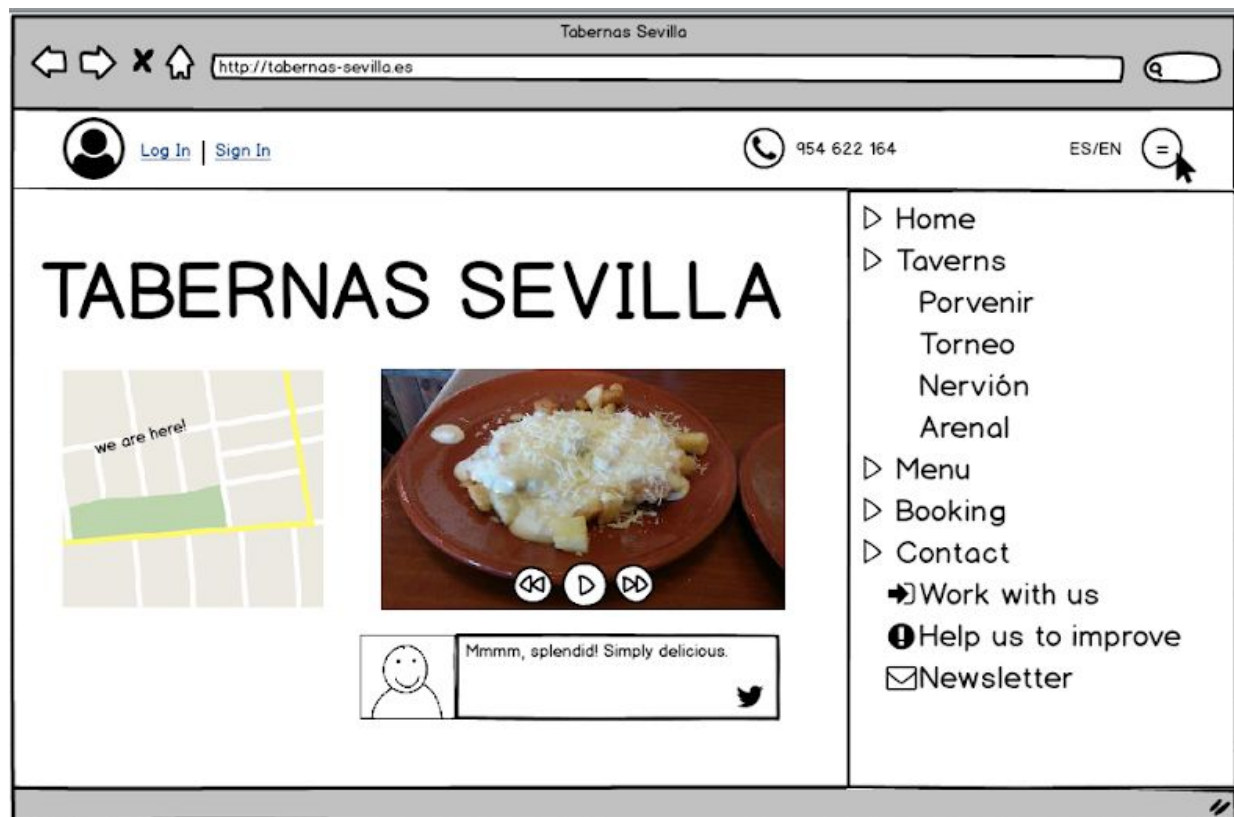
Since we are authenticated in the system as manager1, when we click on the orders link and we click on the deny order button, once we don't fill in the reason, then the page indicates that it is mandatory to submit a reason.

S22-E2 – Can't deny now (already done)

Since we are authenticated in the system as manager1 and the order is already done, when we click on the orders link and we click on the deny order button, once we fill in the reason, then the page indicates that we can't deny it now.

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## Mockups



This is the general view of the website, where we can see how to access most of the functionalities of the web app.

The screenshot shows a web browser window with the address bar displaying 'http://tabernas-sevilla.es'. The page title is 'Tabernas Sevilla'. In the top right corner, there is a phone icon with the number '954 622 164' and a language selector 'ES/EN' with a dropdown arrow. The main content area features a 'Sign In' form with the following fields: 'Name \*', 'Surname \*', 'e-mail \*', 'Tlf number', and a button labeled 'Enter an address'.

Registration view. User stories associated: S8.

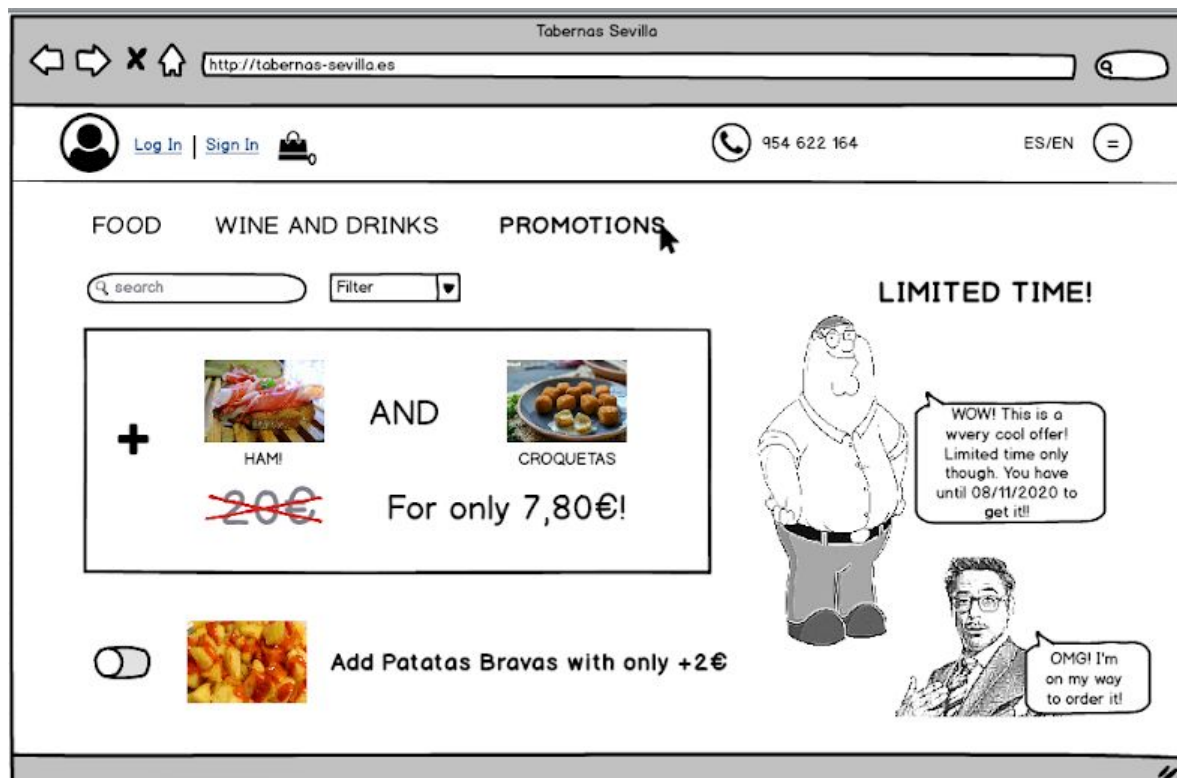
The screenshot shows the online menu for Tabernas Sevilla. The browser window has the same address bar and header as the registration view. The navigation bar includes a user profile icon, 'Log In', 'Sign In', and a shopping cart icon. The main menu has two tabs: 'FOOD' and 'WINE AND DRINKS'. Below the tabs is a search bar and a 'Filter' dropdown. The menu lists three items:

Image	Item Name	Rating	Read reviews	Quantity
	Solomillo a la carbonara	★★★★★	<a href="#">Read reviews</a>	1
	Tapa 3,2€ Half 5,5€ Full Dish 9,8€			
	Croquetas of ham	★★★★☆	<a href="#">Read reviews</a>	0
	Tapa 2,8€ Half 5,5€ Full Dish 7,1€			
	Iberic ham of bellota	★★★★★	<a href="#">Read reviews</a>	0
	Tapa 3,0€ Full Dish 9,8€			

Online menu. Unregistered user view. You can select whether you like to view food or drinks. There is also a filter to see which ones do not have specific allergens. User stories associated: S7, S12, S15.



Product review view. Where a registered user who had previously ordered the item can write or just rate a product with up to 5 stars. The admin can interact with the customers by replying to the comment. User stories associated: S5, S21.



Promotions view. Unregistered user view. Where anyone can see the promotions available. User stories associated: S4.

Tabernas Sevilla

http://tabernas-sevilla.es

User U. 954 622 164 ES/EN

**Change user data**

Name \*  Tif number

Surname \*

e-mail \*

Password \*

Confirm password \*

User profile view. Registered user view. Where you can change your credentials and personal data, add an address for your deliveries, and access other functionalities of the web-app.

Tabernas Sevilla

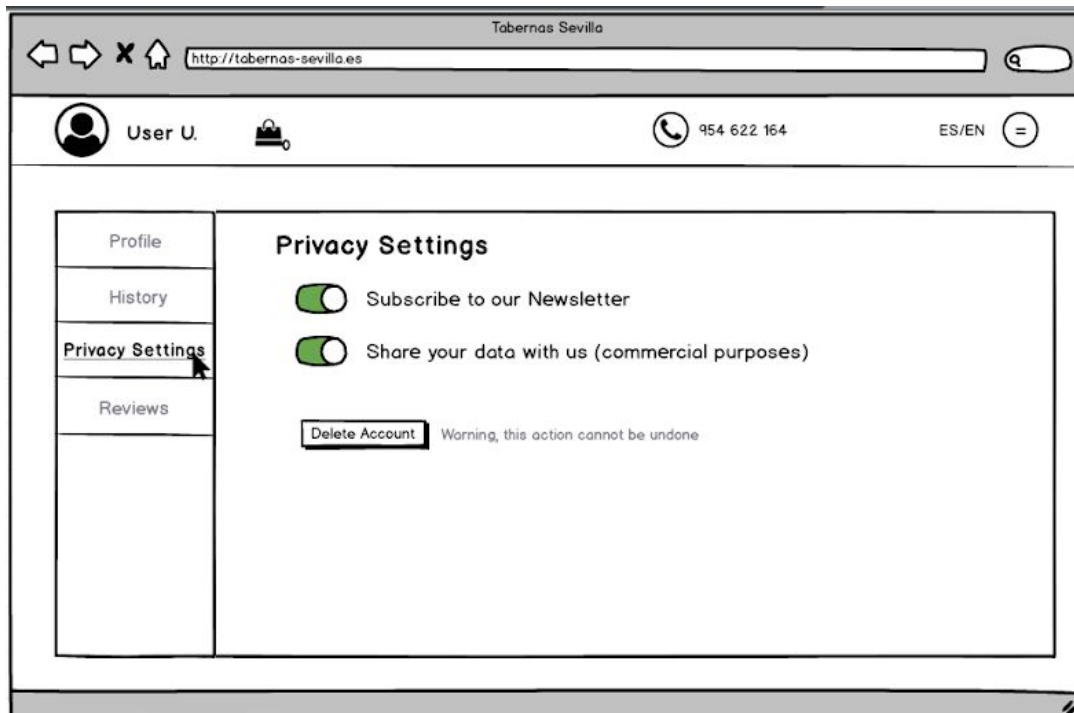
http://tabernas-sevilla.es

User U. 954 622 164 ES/EN

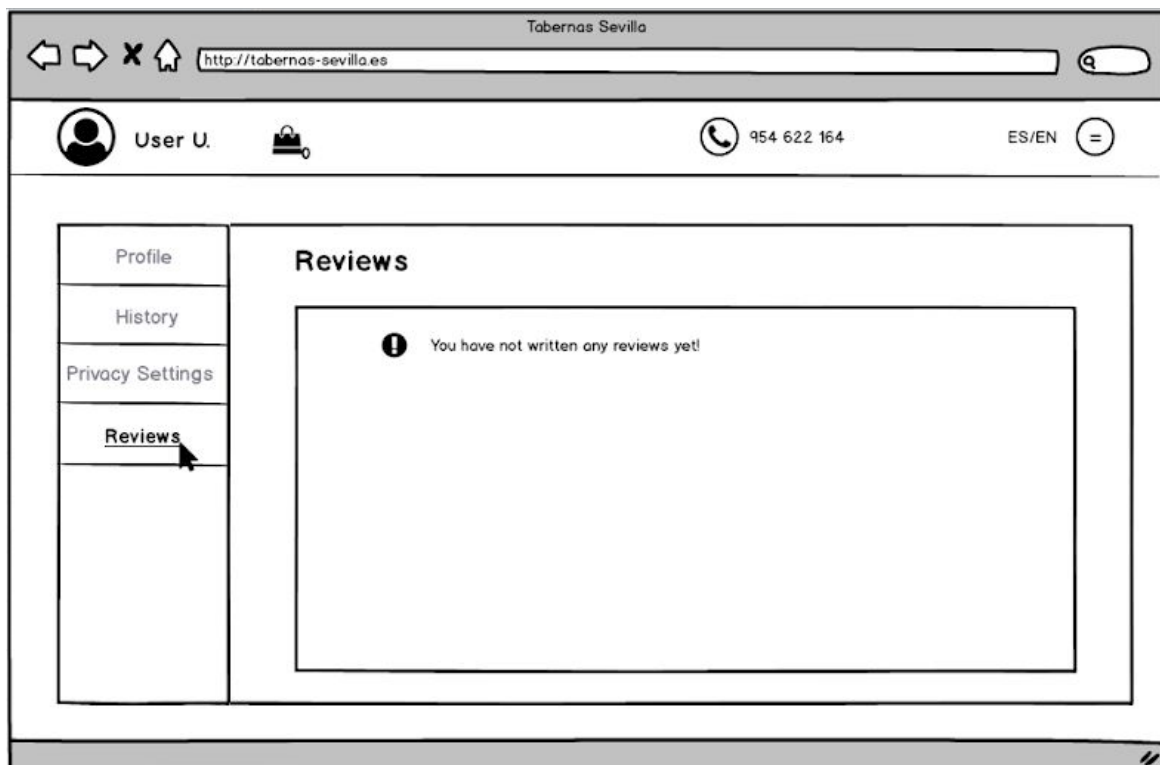
**History**

Date of the order	Price	Establishment	
31/10/2020	37.01€	Nerviön	<a href="#">view details</a>
20/10/2020	21.90€	Porvenir	<a href="#">view details</a>
05/09/2020	19.70€	Porvenir	<a href="#">view details</a>
13/03/2020	10.35€	Nerviön	<a href="#">view details</a>
10/02/2020	22.22€	Arenal	<a href="#">view details</a>

History view. Registered user view. Where you can view past orders easily in case you want to repeat something. User stories associated: S2.



Privacy settings view. Registered user view. Where you can subscribe to the Newsletter or delete your account. User stories associated: S20.





User reviews view. Registered user view. Here you can see the reviews the registered user has written.

The screenshot shows a web browser window titled 'Tabernas Sevilla' with the URL 'http://tabernas-sevilla.es'. The page features a navigation bar with 'Log In' and 'Sign In' links, a phone icon with the number '954 622 164', and a language selector 'ES/EN'. The main heading is 'Booking'. The form contains the following elements:

- A date input field set to '08/11/2020' with a calendar icon.
- A dropdown menu for 'Choose the tavern' with options: Nervión, Porvenir, Arenal, and Torneo.
- A 'Number of diners' input field set to '3'.
- Checkboxes for 'Lactose intolerant?' (checked) and 'Celiac?' (unchecked).
- An 'Insert hour of arrival' dropdown menu with options: 20:00, 20:15 (not available), 20:30 (not available), and 20:45.
- A 'Choose' dropdown menu for location with options: Inside and Outside.
- A 'Make the reservation!' button.
- A message: 'You must log in before making the reservation'.
- A confirmation message: 'You will receive an e-mail with the confirmation of the reservation and the number of your table.'

Booking/reservation view. Unregistered user view. Where you can make a reservation in any of the establishments, inside or outside. You can also select if you are lactose intolerant or celiac to take it into account. The user will receive a confirmation email afterwards. To cancel the booking, you must call the number on the web. User stories associated: S3, S14.

The screenshot shows a web browser window with the URL `http://tabernas-sevilla.es`. The page header includes a user profile icon for 'Chef F. (CHEF)', a phone icon with the number '954 622 164', and a language selector 'ES/EN'. The left sidebar contains a menu with 'Profile', 'E. Command', and 'Privacy Settings'. The main content area is titled 'Change user data (Chef)' and contains the following fields:

- Name \*:
- Tlf number:
- Surname \*:
- e-mail \*:
- Password \*:
- Confirm password \*:

Below the fields are two buttons: 'Save changes' and 'Cancel'. To the right of the form is a placeholder for a profile picture with the text 'Change profile picture'.

Chef data view. Registered chef view. Where the user-type-chef can see and change their personal data. This chef is registered by the administrator (seen later).

The screenshot shows the 'Electronic command' view in the web application. The left sidebar is the same as in the previous screenshot, but the 'E. Command' menu item is selected. The main content area is titled 'Electronic command' and displays a list of orders:

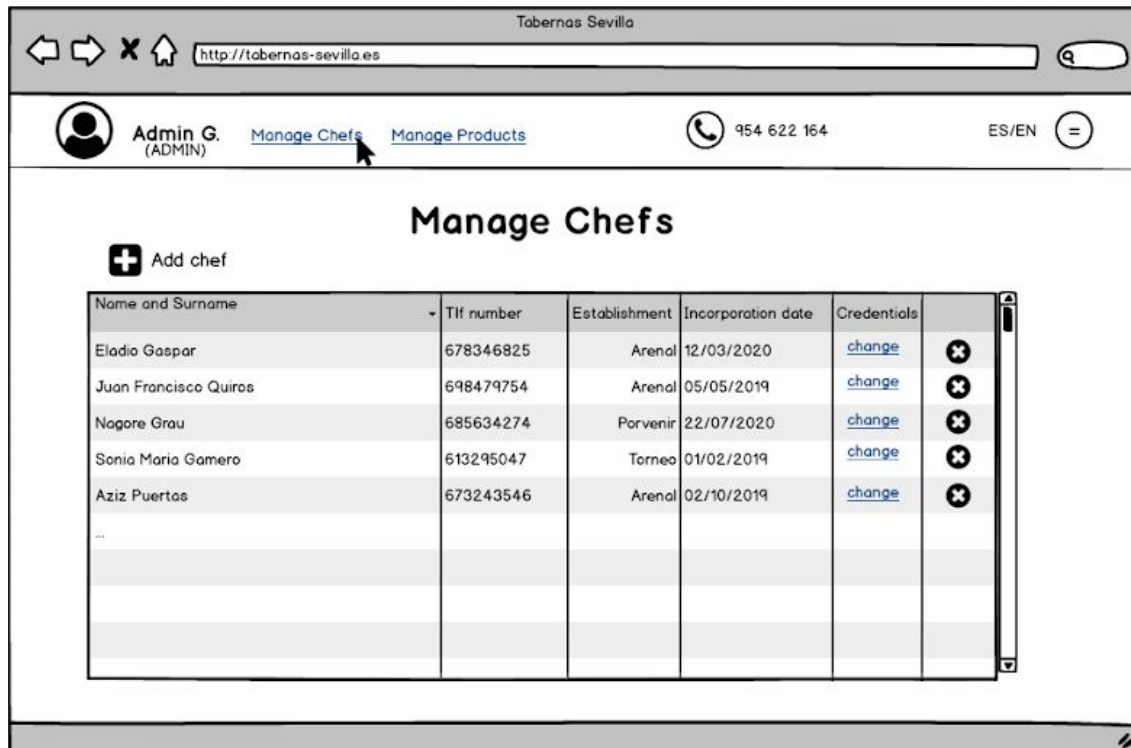
- NEW ORDER FROM TABLE 11:
  - Croquetas de cola de toro
  - Solomillo al whisky

[Refuse order](#) ☐
- NEW ORDER FROM TABLE 08:
  - Tapa of queso ibérico

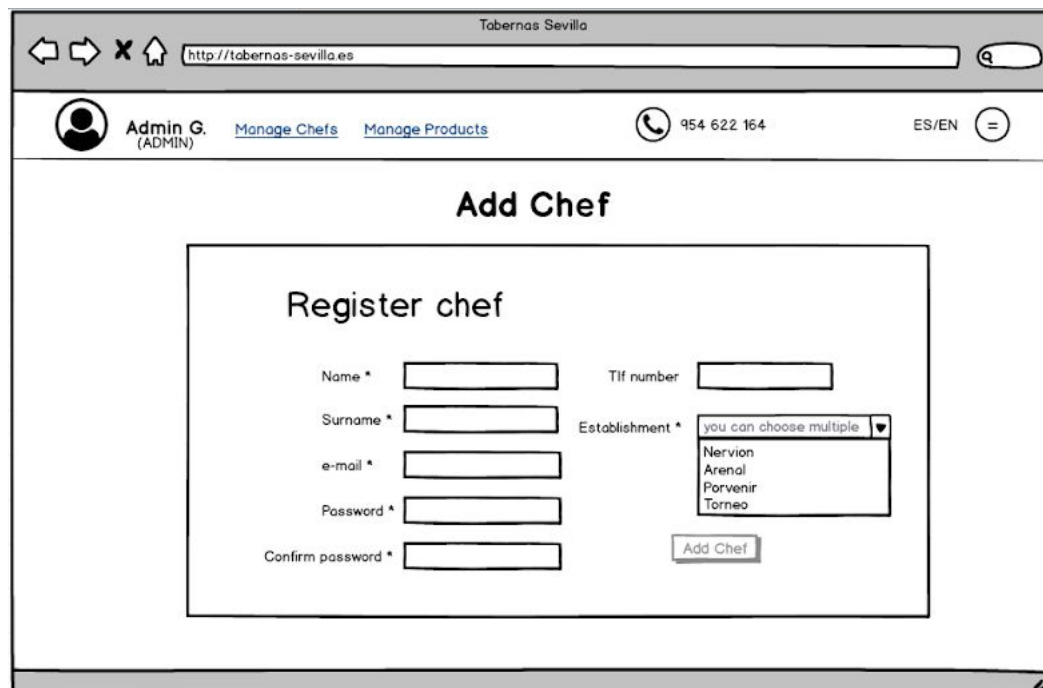
☒ DONE
- NEW DELIVERY ORDER:
  - Fanta Lemon Zero
  - Tapa of Jamón Ibérico
  - Montadito of prínada

☒ DONE

Electronic command view. Registered chef view. Where a chef can see the orders associated with their establishment. The orders are shown depending on the emergency, and they can be cancelled by the chef. User stories associated: S6, S10, S23.



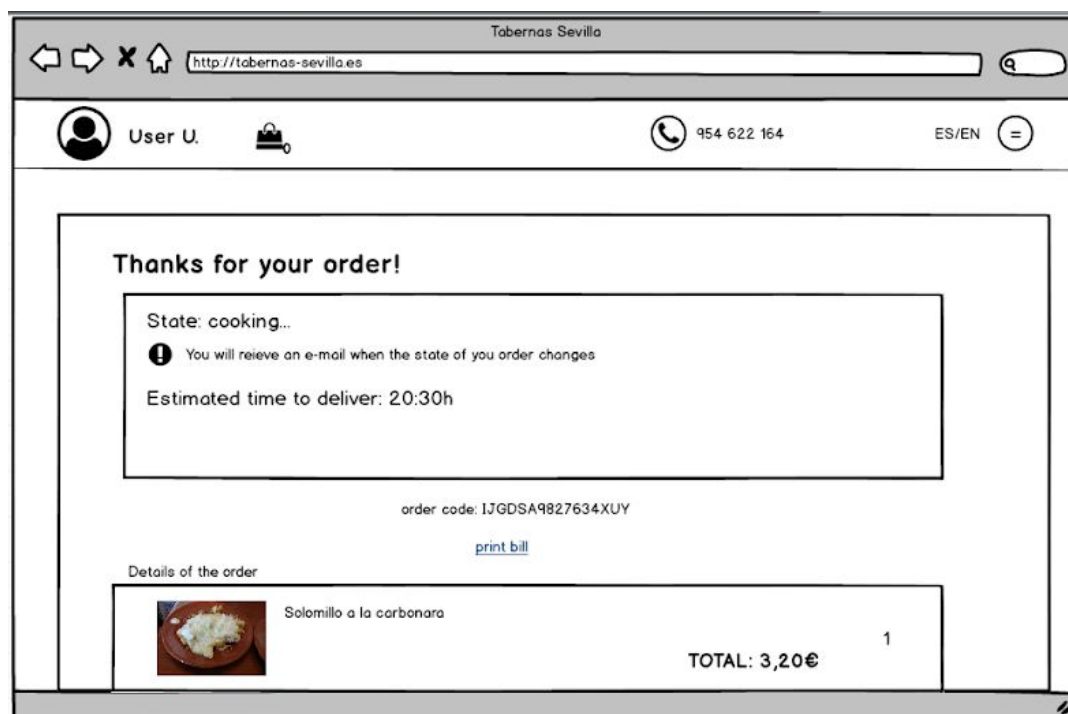
Manage chefs' view. Admin view. The admin is the only type of user who can add chefs to a given establishment (or to delete them). User stories associated: S9.



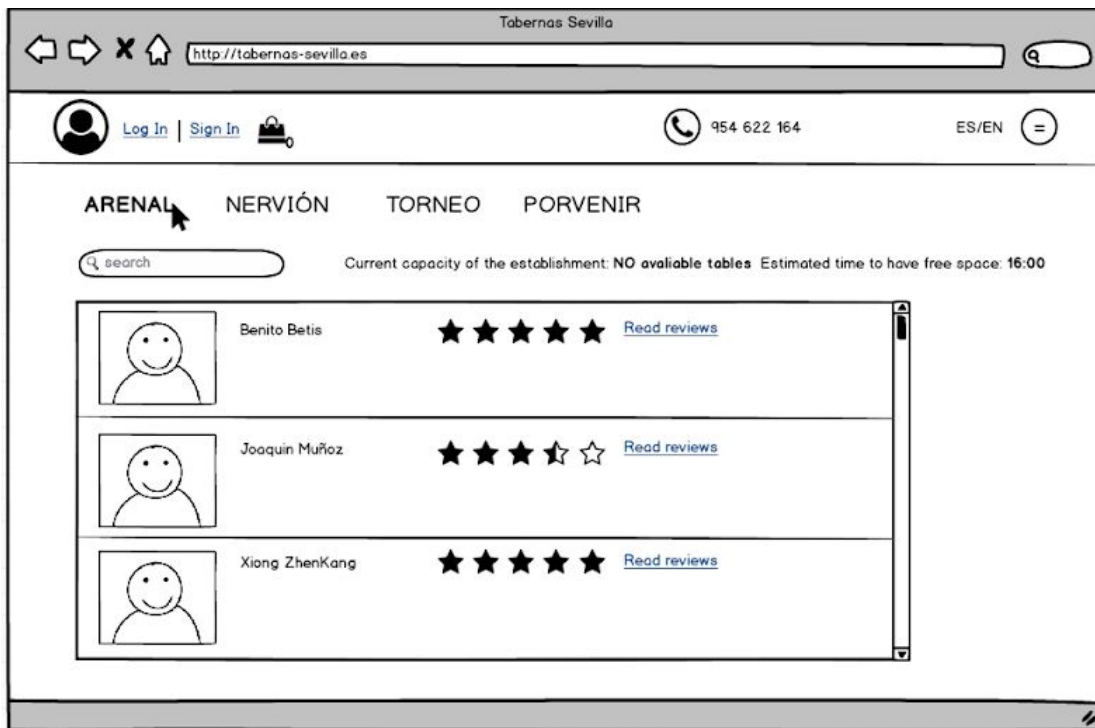
Register chef view. Admin view. Form to register a new chef. User stories associated: S9.



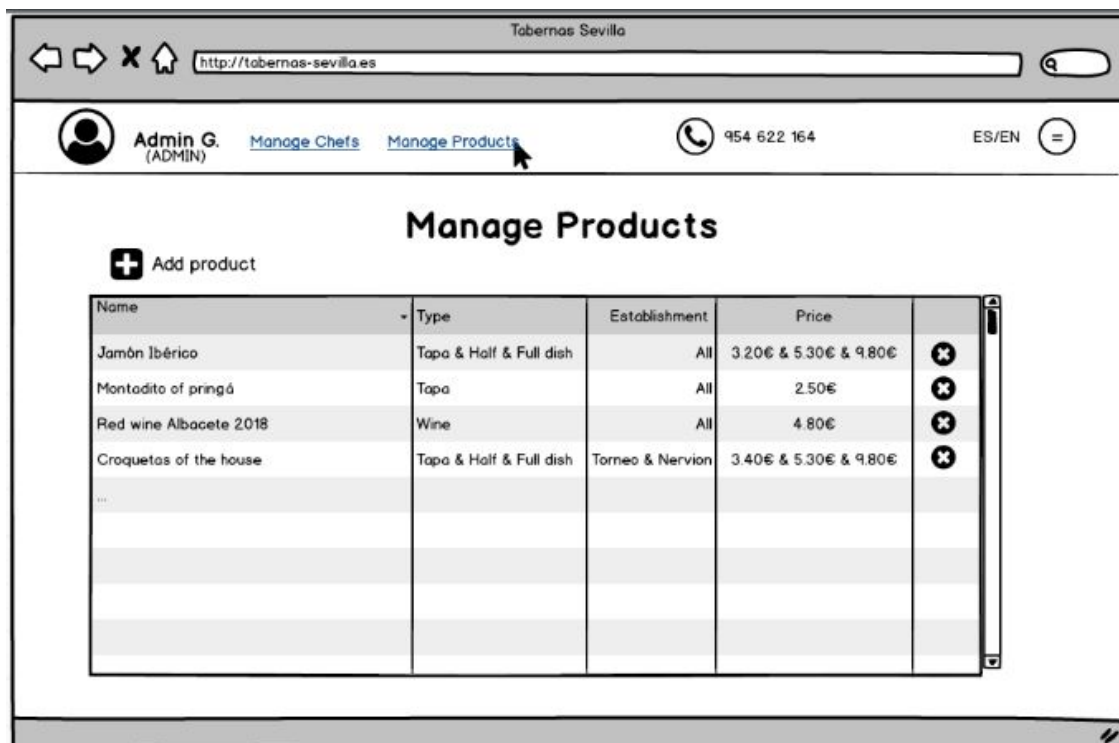
Checkout view. Unregistered user view. When you finish selecting what you want to eat, you must confirm the order. You can choose to have it delivered to you address or to pick it up in a tavern. You must be logged in before ordering food. User stories associated: S16.



Confirmation of order view. Registered user view. When you confirm an order, you can see the state of it, its details, and the estimated delivery time. User stories associated: S13, S22.



Establishment view. Unregistered user view. When selecting a tavern, you can see a ranking of the waiters whom you can rate and write reviews about when you log in. This view also indicated the current capacity and the estimated time of availability of the tavern. User stories associated: S1, S11, S17.



Manage products view. Admin view. Where the admin can view and add all the dishes and wines/drinks available in all taverns.

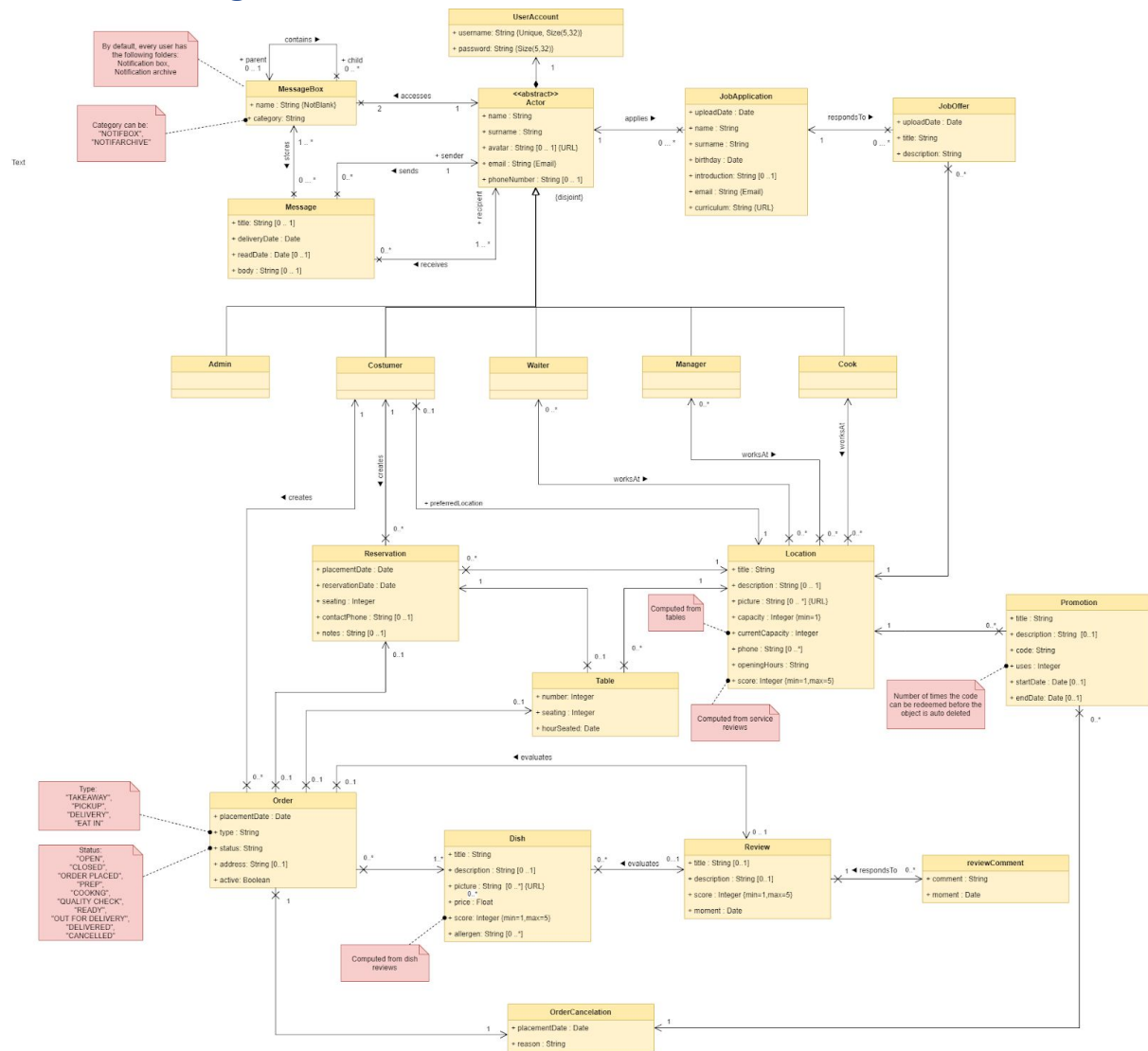
The screenshot shows a web browser window titled 'Tabernas Sevilla' with the URL 'http://tabernas-sevilla.es'. The browser's address bar and navigation buttons are visible. Below the browser window is a header bar for the application. On the left, there is a user profile icon and the text 'Admin G. (ADMIN)'. In the center, there are two links: 'Manage Chefs' and 'Manage Products'. On the right, there is a phone icon with the number '954 622 164', the text 'ES/EN', and a menu icon. The main content area is titled 'Add product'. It contains a form with four fields: 'Name \*', 'Price \*', 'Type \*', and 'Establishment \*'. The 'Establishment \*' field is a dropdown menu with the text 'you can choose multiple' and a list of options: 'Nervion', 'Arenal', 'Porvenir', and 'Torneo'. Below the form is a button labeled 'Add product'.

Add product view. Admin view. Where the admin adds a new item, dish or drink. User stories associated: S18.

The screenshot shows a web browser window titled "Tabernas Sevilla" with the URL "http://tabernas-sevilla.es". The browser's address bar and navigation icons are visible. Below the browser window, a navigation bar contains a user profile icon labeled "User U.", a shopping cart icon, a phone icon with the number "954 622 164", and a language selector "ES/EN" with a dropdown arrow. The main content area features a "Work with us!" heading. Below this heading is a form with a large rectangular box. Inside this box, there is an "Attach CV" button at the top. Below the button are two input fields: "Name and Surname:" and "e-mail:". At the bottom of the box, there is a message with an information icon: "We will send you an e-mail if we are interested in you". To the right of this message is a "Send" button. The browser window has a standard Mac OS X-style title bar with red, yellow, and green buttons.

Employment view. Registered user view (can be accessed without registration). Where you can send your CV to the business. User stories associated: S19.

## Data modeling





## Business rules

### **R1 - Limited booking**

The client can't make a reservation in the web-app if the capacity of the establishment is full.

### **R2 - Maximum duration**

The reservation needs to have an estimated duration of 2 hours in order to make the owner able to accommodate the maximum number of clients possible.

The owner of the restaurant is above all looking for profitability. To do so, he must welcome as many customers as possible in order to sell as much product as possible.

A customer who lingers too long will block the possible reception of other customers and thus the eventual sale of other dishes or drinks. Moreover, most customers will take a complete menu or even a few drinks that will be eaten, drunk and enjoyed in less than 2 hours, so the extra time can be a waste of money.

### **R3 - Appointment restricted**

The clients have to be able to make appointments unless it is more than 1 hour in advance in order for the managers to accommodate clients who come without an appointment.

Restaurant managers must also be able to greet passers-by so as not to appear inaccessible. In addition, passers-by are more likely to have to eat or drink quickly and thus consume the same amount of product for less time and thus increase profitability.

In fact, as a passer-by, if I walk around or visit the city around one of the establishments, I may want to eat quickly in order to make the most of my time out.

### **R4 - Waiting list**

It is preferable that customers reserve their table before coming whenever possible so that the waiters do not manage a huge waiting list.

A large waiting list for waiters causes several problems.

Indeed, they will already be less efficient in the room with the clients already installed and risk getting lost in their orders or other tasks to perform.

In addition, this crowd in front of the restaurant may give an image of a poorly managed and less efficient establishment and thus discourage potential customers.

Then, a customer who waits too long may abandon or stay and be less satisfied because of the wait, without even mentioning the case where a waiter would get lost in the waiting list and make a customer who waited less enter before another one.

Finally, being in the COVID period a lot of people gathered together is not a good point.

### **R5 - Responsive Web Design**

Customers have to be able to access and view the system on both their smartphone and laptop so as not to limit use to a single device.

If a customer does not have either a smartphone or a laptop, he must be able to have the other solution to access the system.

Indeed, almost everyone has a smartphone these days, but it is possible that the customer is not very comfortable with it and prefers to access the site and its services via his computer or laptop. In the other case, if the customer is on the move or simply doesn't have access to a computer, he should be able to access it as well.

As a customer, if I'm in transportation on my way back from my place of business at 6pm and I want to book for 8pm I must be able to do so via my smartphone.

### R6 - Booking in advance

Clients must know in advance the time they will be able to sit at a table to make managers or waiters do not have to speed up the process and be able to manage my time.

Customers need to know in advance how much time they will be able to spend at the restaurant so that they can organize their meal time, their orders, their discussion time... so that they don't leave the restaurant frustrated or disappointed that they didn't have time to do everything they wanted to do. Moreover, the manager or the waiter will not have to push them towards the exit and thus to appear stressful or unpleasant what could at best cause a negative feeling at the customer, at worst, an argument which would involve a refusal to return here categorically of the customer and a negative opinion of the customers around.

## Planification

<b>Type</b>	<b>Element</b>	<b>Assignment</b>	<b>Sprint</b>
Entity	Message	Esteban Cabezas Carlos Núñez	1
Entity	MessageBox	Adrián de las Heras Adil Rouichi	1
Entity	SiteConfiguration	Esteban Cabezas Carlos Núñez	1
Entity	JobApplication	Adrián de las Heras Jose Antonio Zamudio	1
Entity	Location	Esteban Cabezas Carlos Núñez	1
Entity	Promotion	Adrián de las Heras Jose Antonio Zamudio	1
Entity	OrderCancelation	Adrián de las Heras Jose Antonio Zamudio	1
Entity	Order	Adrián de las Heras Jose Antonio Zamudio	1
Entity	Dish	Adrián de las Heras Jose Antonio Zamudio	1
Entity	DishReview	Adrián de las Heras Jose Antonio Zamudio	1
Entity	reviewComment	Adrián de las Heras Jose Antonio Zamudio	1
Entity	ServiceReview	Esteban Cabezas Carlos Núñez	1

Entity	jobOffer	Adrián de las Heras Jose Antonio Zamudio	1
Entity	Reservation	Adrián de las Heras Jose Antonio Zamudio	1
Entity	Table	Adrián de las Heras Jose Antonio Zamudio	1
Test	S1+E1 S1-E1	Adrián de las Heras Jose Antonio Zamudio	1
Test	S2+E1 S2-E1	Esteban Cabezas Carlos Núñez	1
Test	S3+E1 S3-E1	Esteban Cabezas Carlos Núñez	1
Test	S4+E1 S4-E1	Esteban Cabezas Carlos Núñez	1
Test	S5+E1 S5-E1	Esteban Cabezas Carlos Núñez	1
Test	S6+E1 S6-E1 S6-E2	Esteban Cabezas Carlos Núñez	1
Test	S7+E1 S7-E1	Adrián de las Heras Jose Antonio Zamudio	1
Test	S8+E1 S8-E1	Adrián de las Heras Jose Antonio Zamudio	1
Test	S9+E1 S9-E1	Adrián de las Heras Jose Antonio Zamudio	1
Test	S10+E1 S10-E1 S10-E2	Adil Rouchil Juan Buiza	1
Test	S11+E1 S11-E1	Adil Rouchil Juan Buiza	1
Test	S12+E1 S12-E1	Adil Rouchil Juan Buiza	1
Test	S13+E1 S13-E1	Adil Rouchil Juan Buiza	1
Test	S14+E1 S14-E1	Adil Rouchil Juan Buiza	1
Test	S15+E1	Adil Rouchil	1

	<i>S15-E1</i>	<i>Juan Buiza</i>	
<i>Test</i>	<i>S16+E1</i> <i>S16-E1</i>	<i>Adil Rouchil</i> <i>Juan Buiza</i>	<i>1</i>
<i>Test</i>	<i>S17+E1</i> <i>S17-E1</i>	<i>Adil Rouchil</i> <i>Juan Buiza</i>	<i>1</i>
<i>Test</i>	<i>S18+E1</i> <i>S18-E1</i>	<i>Adil Rouchil</i> <i>Juan Buiza</i>	<i>1</i>
<i>Test</i>	<i>S19+E1</i> <i>S19-E1</i>	<i>Adil Rouchil</i> <i>Juan Buiza</i>	<i>1</i>
<i>Test</i>	<i>S20+E1</i> <i>S20-E1</i>	<i>Esteban Cabezas</i> <i>Carlos Núñez</i>	<i>1</i>
<i>Test</i>	<i>S21+E1</i> <i>S21-E1</i>	<i>Esteban Cabezas</i> <i>Carlos Núñez</i>	<i>1</i>
<i>Test</i>	<i>S22+E1</i> <i>S22-E1</i>	<i>Esteban Cabezas</i> <i>Carlos Núñez</i>	<i>1</i>
<i>Test</i>	<i>S23+E1</i> <i>S23-E1</i> <i>S23-E2</i>	<i>Esteban Cabezas</i> <i>Carlos Núñez</i>	<i>1</i>

<i>User Story</i>	<i>S1</i>	<i>Adrián de las Heras</i> <i>José Antonio Zamudio</i> <i>Amaya</i>	<i>1</i>
<i>User Story</i>	<i>S2</i>	<i>Adrián de las Heras</i> <i>José Antonio Zamudio</i> <i>Amaya</i>	<i>1</i>
<i>User Story</i>	<i>S3</i>	<i>Adrián de las Heras</i> <i>José Antonio Zamudio</i> <i>Amaya</i>	<i>1</i>
<i>User Story</i>	<i>S4</i>	<i>Adrián de las Heras</i> <i>José Antonio Zamudio</i> <i>Amaya</i>	<i>1</i>
<i>User Story</i>	<i>S5</i>	<i>Adrián de las Heras</i> <i>José Antonio Zamudio</i> <i>Amaya</i>	<i>1</i>
<i>User Story</i>	<i>S6</i>	<i>Adrián de las Heras</i> <i>José Antonio Zamudio</i> <i>Amaya</i>	<i>1</i>
<i>User Story</i>	<i>S7</i>	<i>Adrián de las Heras</i>	<i>1</i>

		José Antonio Zamudio Amaya	
User Story	S8	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S9	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S10	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S11	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S12	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S13	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S14	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S15	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S16	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S17	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S18	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S19	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S20	Adrián de las Heras José Antonio Zamudio Amaya	1
User Story	S21	Adrián de las Heras	1

		José Antonio Zamudio Amaya		
User Story	S22	Adrián de las Heras José Antonio Zamudio Amaya	1	

### Metrics of the project

Metric	Value
Nº of entities (excluding actors)	15
Relations	28
Relations N:N	17
Simple constraints	25
Business rules	6
Total user stories	23
User stories involving 2 or more entities	18
User stories involving 3 or more entities	5
Actors	5