



# **ARCK** **Elaboration Document**

***F.O.C.U.S.***

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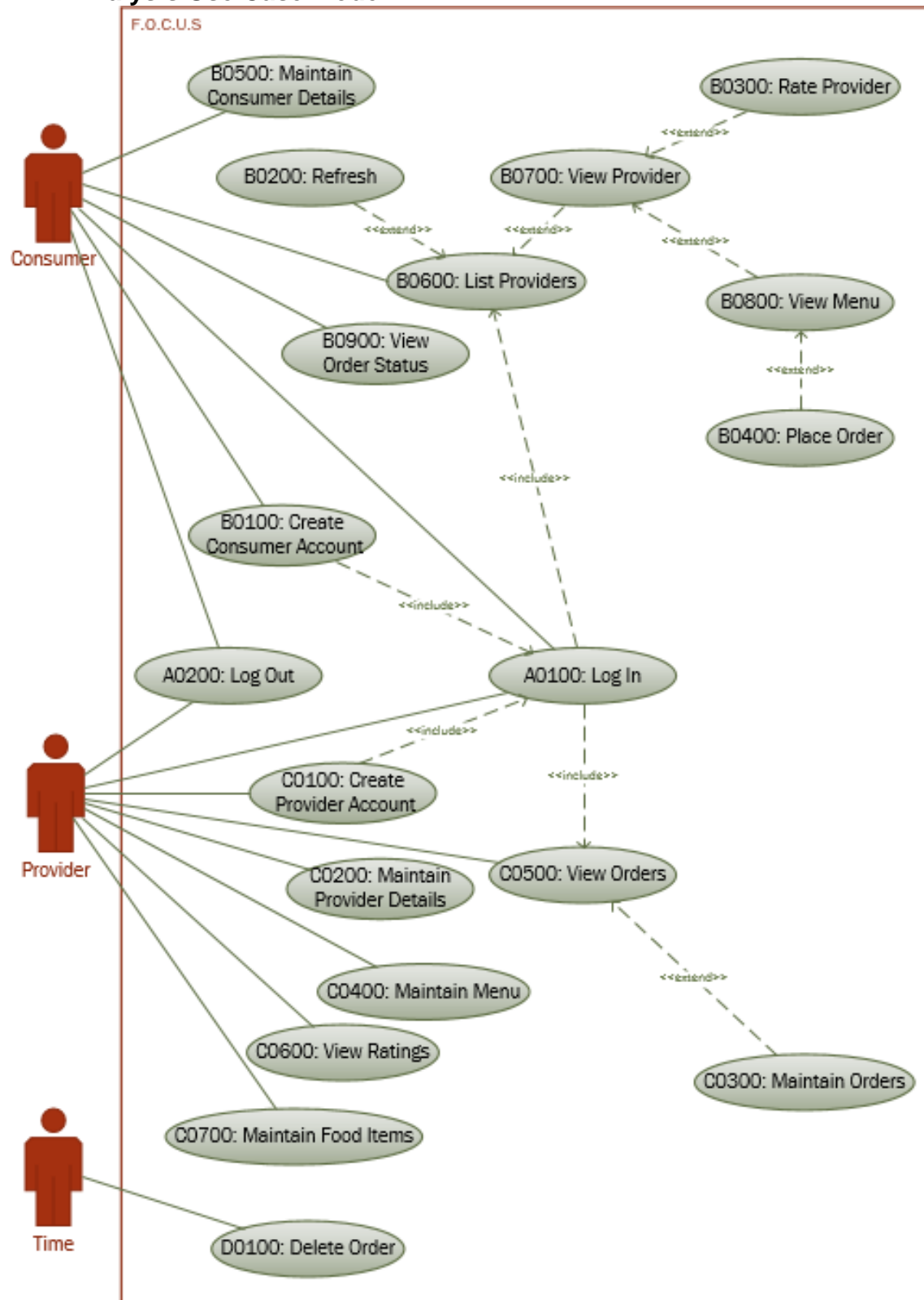
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# 1 FUNCTIONAL REQUIREMENTS

## 1.1 Analysis Use Case Model



## 1.2 Use Case Glossary and Responsibilities

Team Member Responsible: Antin Phillips	
Use Case Id	Use Case Name
B0200	Refresh
D0100	Delete Order
Queries/Reports	
B0400	Place Order
B0600	List Providers
B0800	View Menu
B0900	View Order Status

Team Member Responsible: Klara Lategan	
Use Case Id	Use Case Name
A0100	Login
A0200	Logout
B0100	Create Consumer Account
B0300	Rate Provider
B0500	Maintain Consumer Details
Queries/Reports	
B0700	View Provider

Team Member Responsible: Charné Keen	
Use Case Id	Use Case Name
A0100	Login
C0200	Maintain Provider Details
C0400	Maintain Menu
C0700	Maintain Food Items
<b>Queries/Reports</b>	
C0600	View Ratings

Team Member Responsible: Ruan Olivier	
Use Case Id	Use Case Name
A0200	Logout
C0100	Create Provider Account
C0300	Maintain Orders
<b>Queries/Reports</b>	
C0500	View Orders

### 1.3 New Use Case Narratives

These are the Use Cases that were added after the submission of the requirements document. Updated narratives can be found in the resubmitted requirements document.

Use Case ID	Use Case Name	
B0900	View Order Status	
Primary Business Actors		Other participating Actors
Consumer		
Description	Consumers can view the status of all their orders.	
Pre-Conditions	Consumer is logged in the system. Consumer wishes to view the status of their orders.	
Triggers	Consumer selects to view their order status.	
Post-Conditions	Consumer is presented with a list of their orders and their statuses.	
Basic Flow of Events	1. Consumer is shown a colour-coded, date order list of their past and current orders.	

Use Case ID	Use Case Name	
C0600	View Ratings	
Primary Business Actors		Other participating Actors
Provider		
Description	Providers can view all ratings that consumers have given them. All ratings and comments for the specific provider will be shown.	
Pre-Conditions	Provider has logged into their account.	
Triggers	Provider selects to view their ratings.	
Post-Conditions	The provider's ratings are shown.	
Basic Flow of Events	1. Ratings are displayed, arranged by date (newest first).	

## 2 UI Prototypes

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### 2.1 Team UI Guidelines

When placing multiple buttons inline, place the most likely/safest choice on the right. For example, when a provider wishes to create a new food item, the save button is displayed in the bottom right and is on the right of the cancel button. With logout, this convention is applied by having the safest option (cancel) to right of the logout button. This will help prevent errors, promote consistency and learnability.

Use the words “Save”, “Cancel” and “Okay” as opposed to similar words wherever possible. Make use of “Login” and “Logout” as single words. Don't abbreviate any text on buttons or labels.

Both the app and website have their own layout which are similar, both are consistent within their own domain. Interfaces will be designed to minimise wasted space. Each interface will be designed with one functionality. The colour scheme to be used will be a dominant light blue and white, with black for text. Colour scheme will not be included in the UI designs, apart from where absolutely necessary. The font style will be consistent in each sub-system. Currently the font style to be used is Calibri.

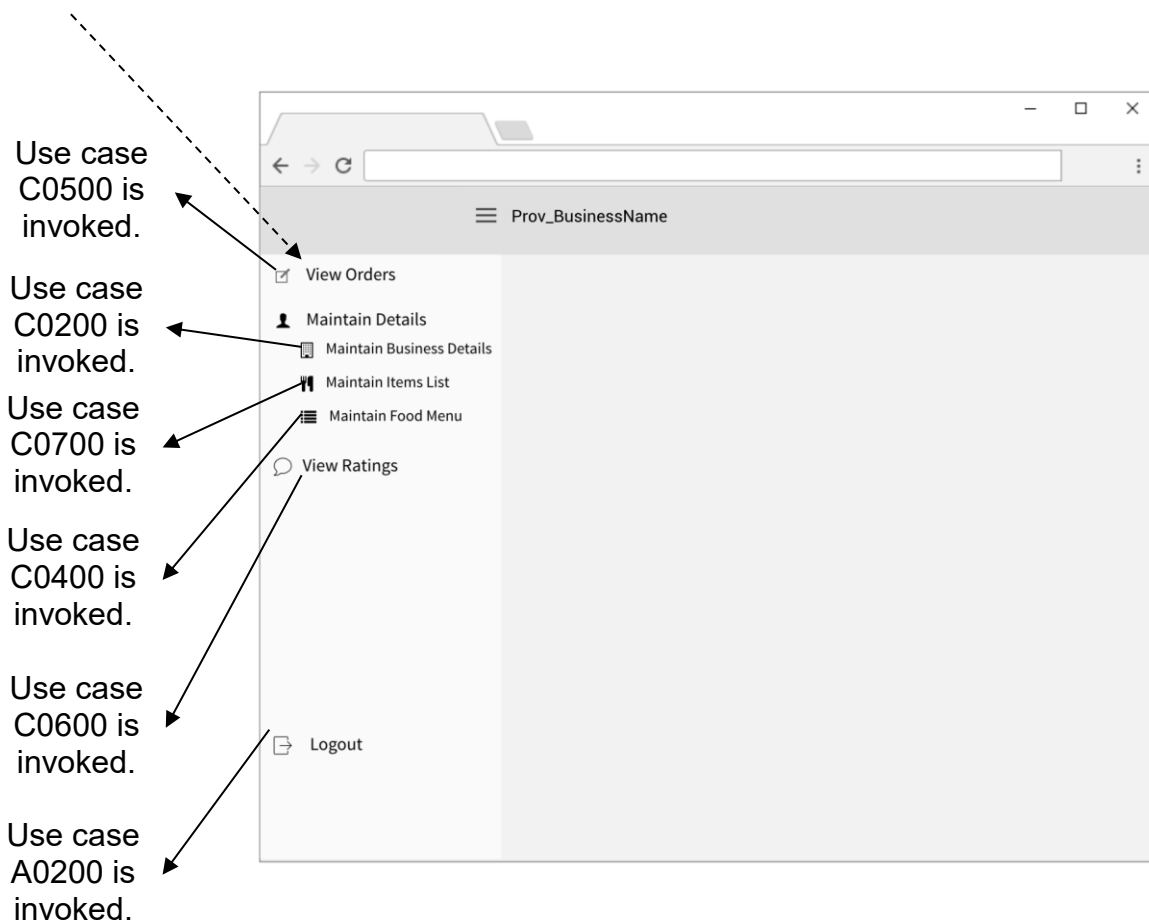
The navigation menu will always be on the left and will be accessible from the triple stripe icon located in the top-left of the screen. Within the navigation menu, the current page will be highlighted. The heading of the page will always be displayed at the top. Users will be able to navigate to any page within three actions by using the navigation menu. Navigating through the system and completing tasks will be intuitive.

Errors will be reduced by making use of confirmation messages and clear labels for data input. Our UI prototypes do not model errors occurring, but error handling has been taken into account. There are no unclickable buttons, instead controls that should not be accessed will not be shown.

## 2.2 UI Designs

### 2.2.1 Masterpages (App & Website)

#### Provider Masterpage & Navigation Menu





## Provider Administrative Password Request

The provider enters it's administrative password.

The popup will disappear and the provider will be directed to the last page visited.

A light gray rectangular popup window with a thin border. At the top, it contains the text "Please enter administrative password:". Below this text is a white rectangular input field. At the bottom of the popup are two buttons: "Cancel" on the left and "Okay" on the right. Arrows point from the surrounding text to these elements: one from the input field to the text "The provider enters it's administrative password.", one from the "Okay" button to the text "The password will be confirmed...", and one from the "Cancel" button to the text "The popup will disappear..."

The password will be confirmed, and if it is correct the provider will be allowed more functionality.

## Provider Delete Confirmation

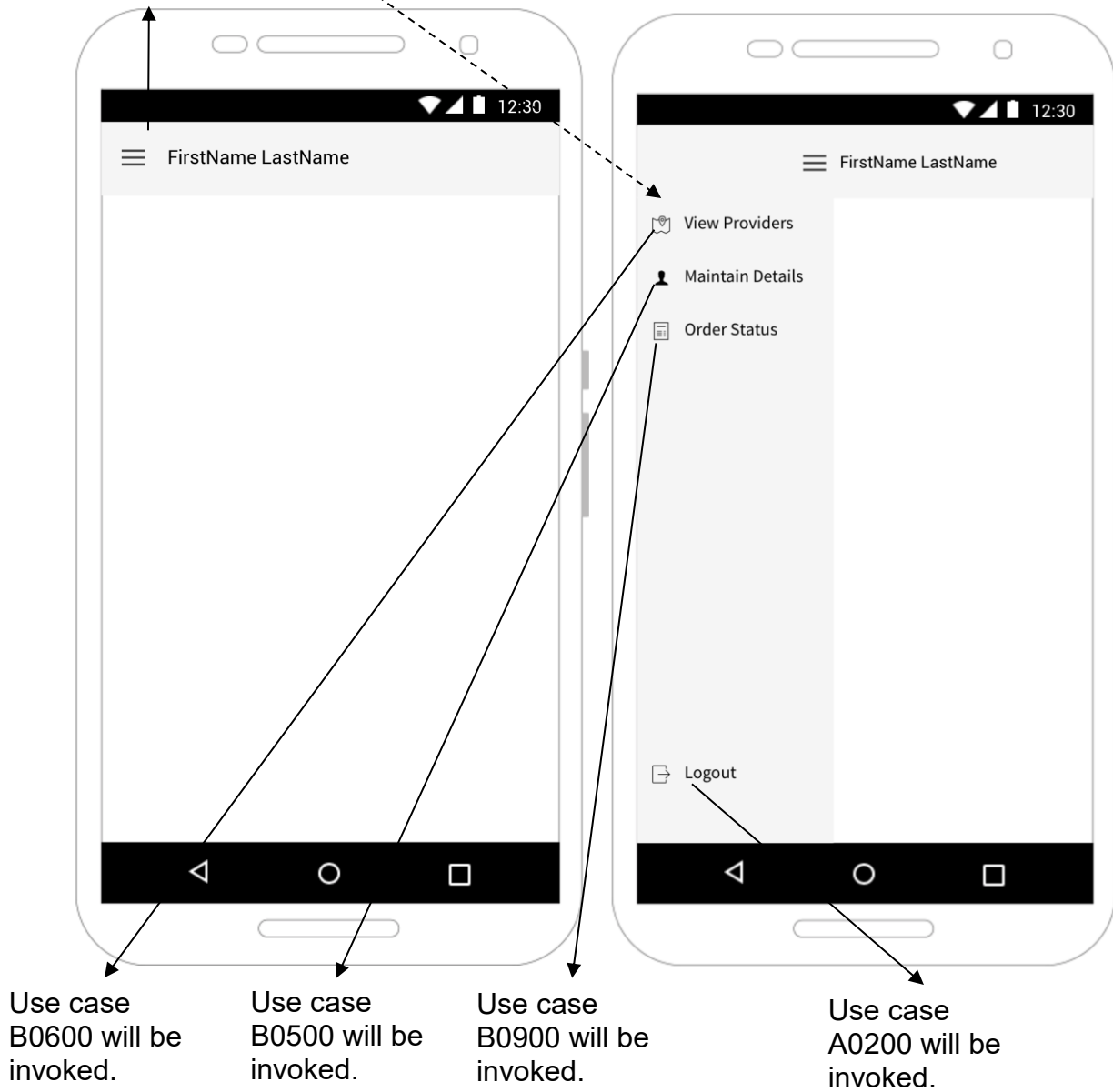
The selected item will be deleted.

A light gray rectangular popup window with a thin border. It contains the text "Are you sure you want to delete this?". Below this text are two buttons: "Delete" on the left and "Cancel" on the right. Arrows point from the surrounding text to these buttons: one from the "Delete" button to the text "The selected item will be deleted.", and one from the "Cancel" button to the text "The request of deleting an item will be cancelled."

The request of deleting an item will be cancelled.

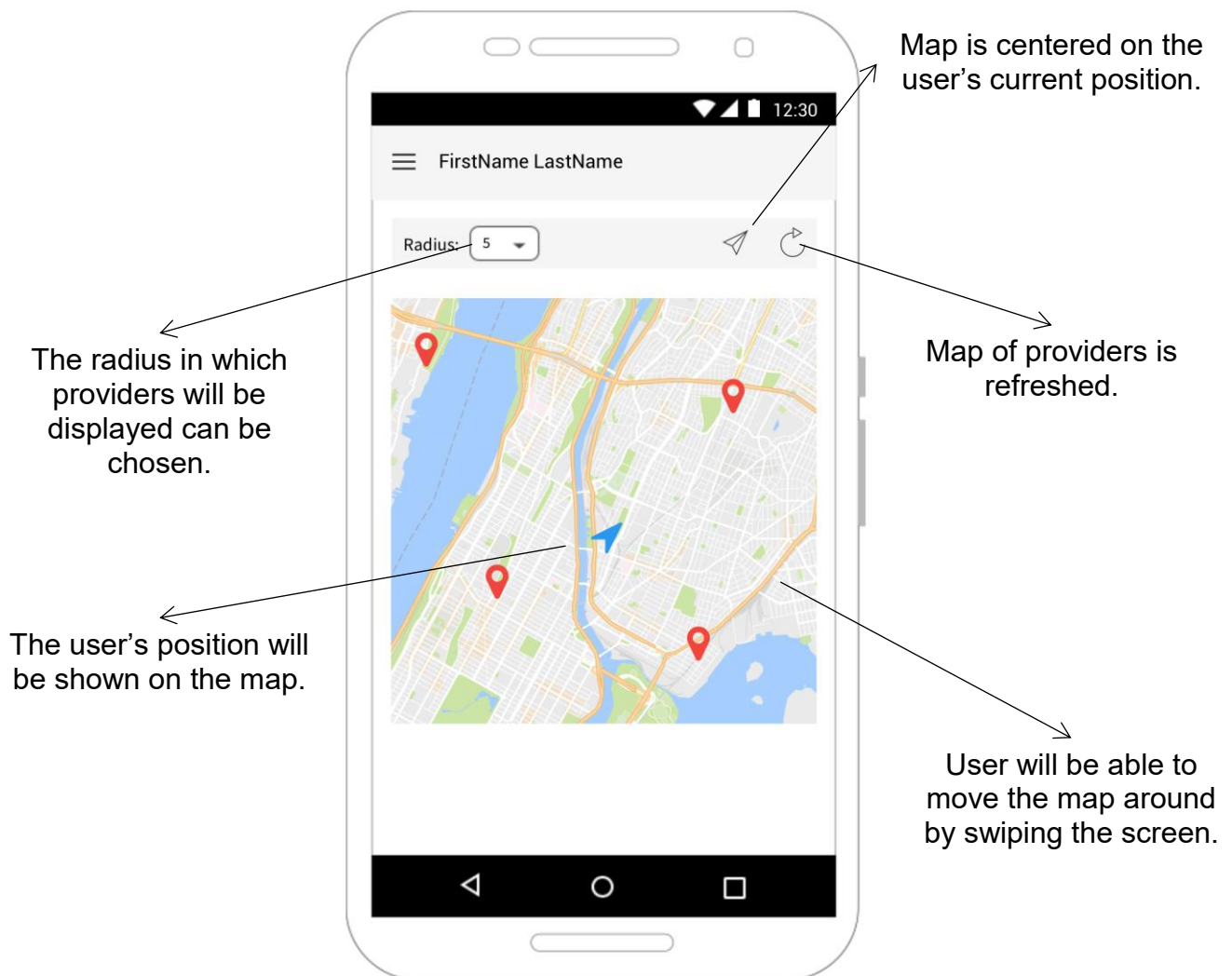
## Consumer Masterpage and Navigation Menu

The navigation menu will be expanded from the left.

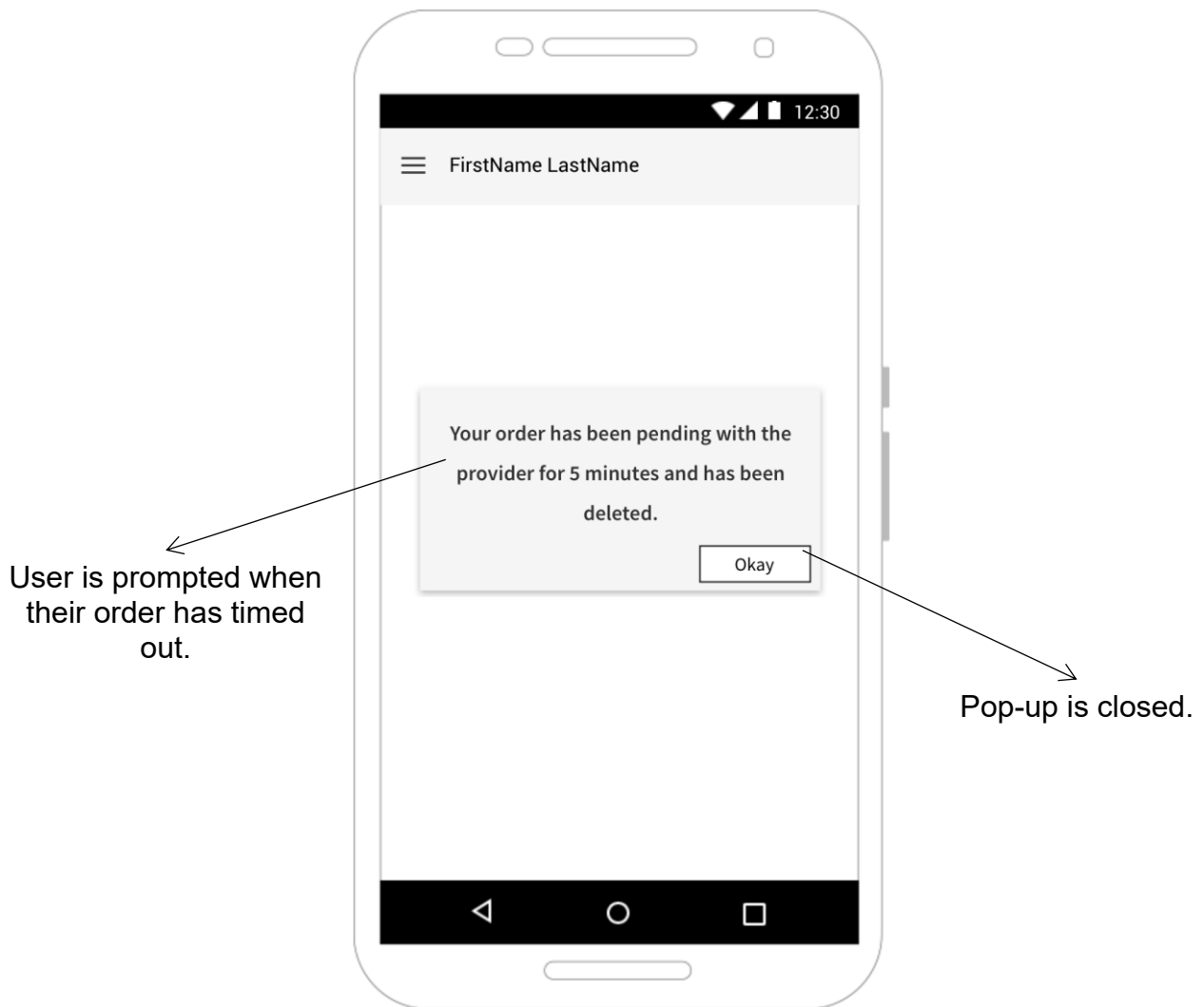


### 2.2.2 Antin Phillips

## B0600 List Providers & B0200 Refresh

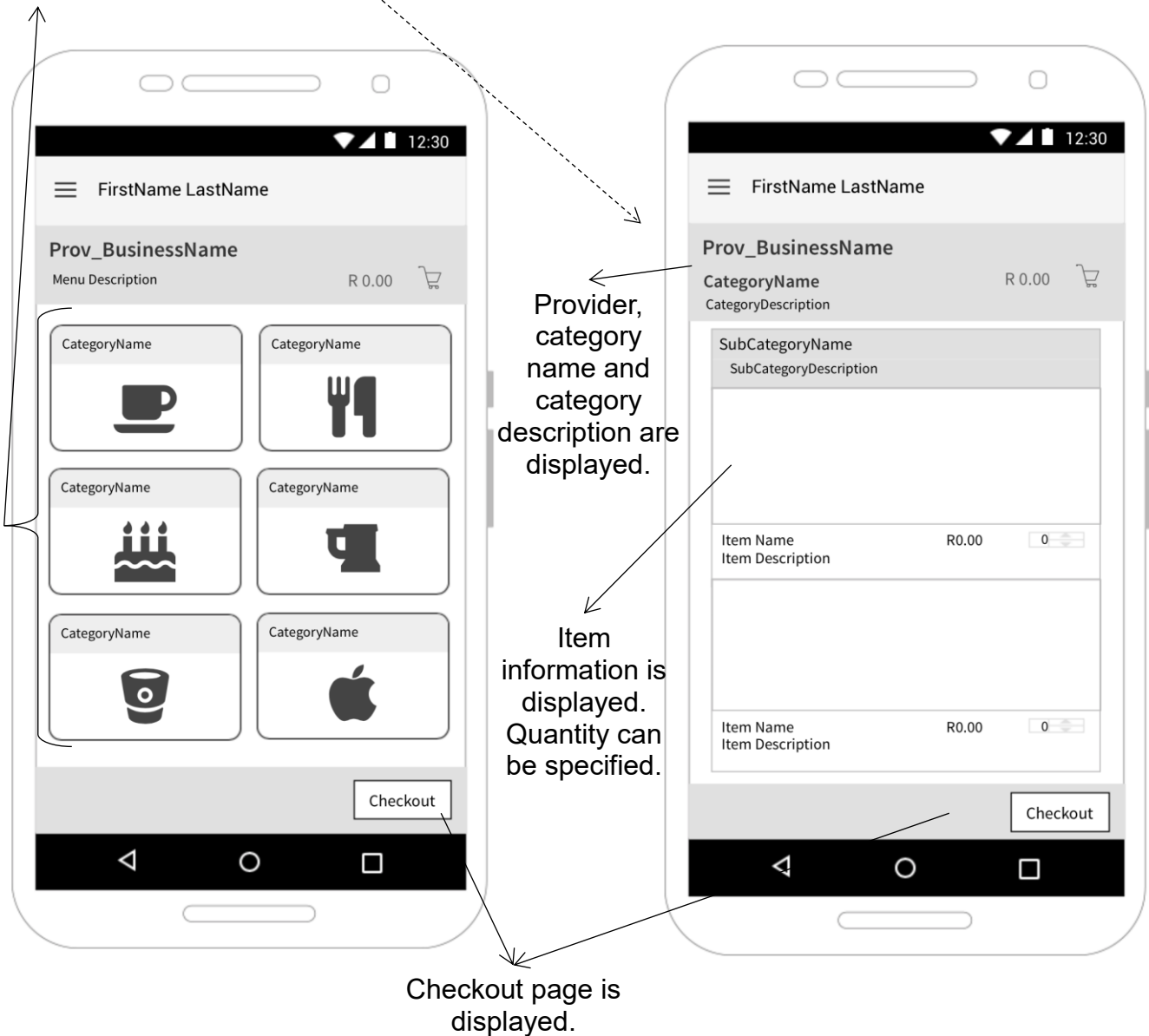


## D0100 Delete Order



## B0400 Place Order (Category View & Subcategory View)

Category is selected.  
Appropriate category  
screen is shown.

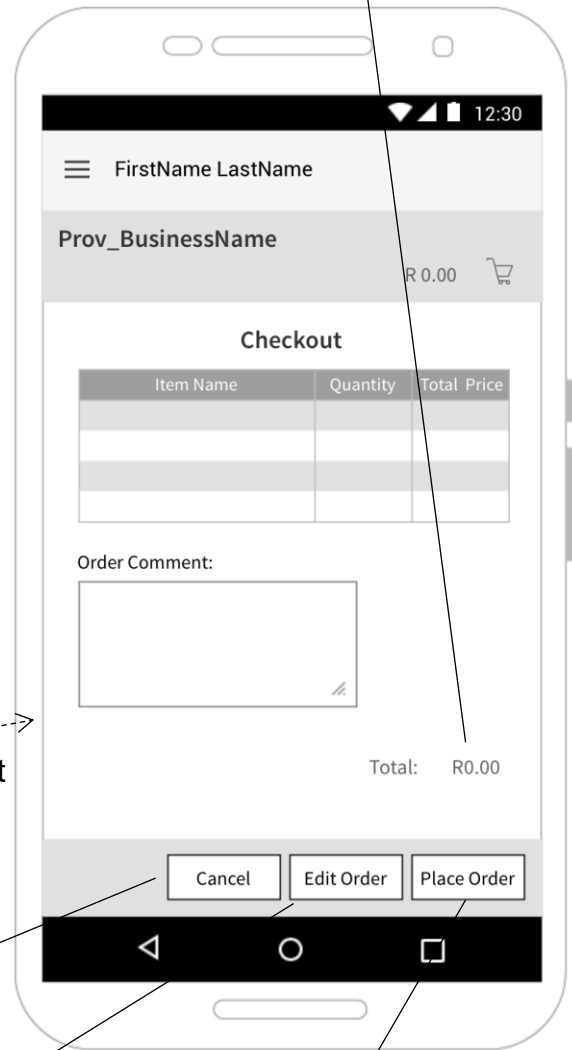


## B0400 Place Order (Cart View & Checkout View)

A summary of the current order is displayed.



The total of the current order.



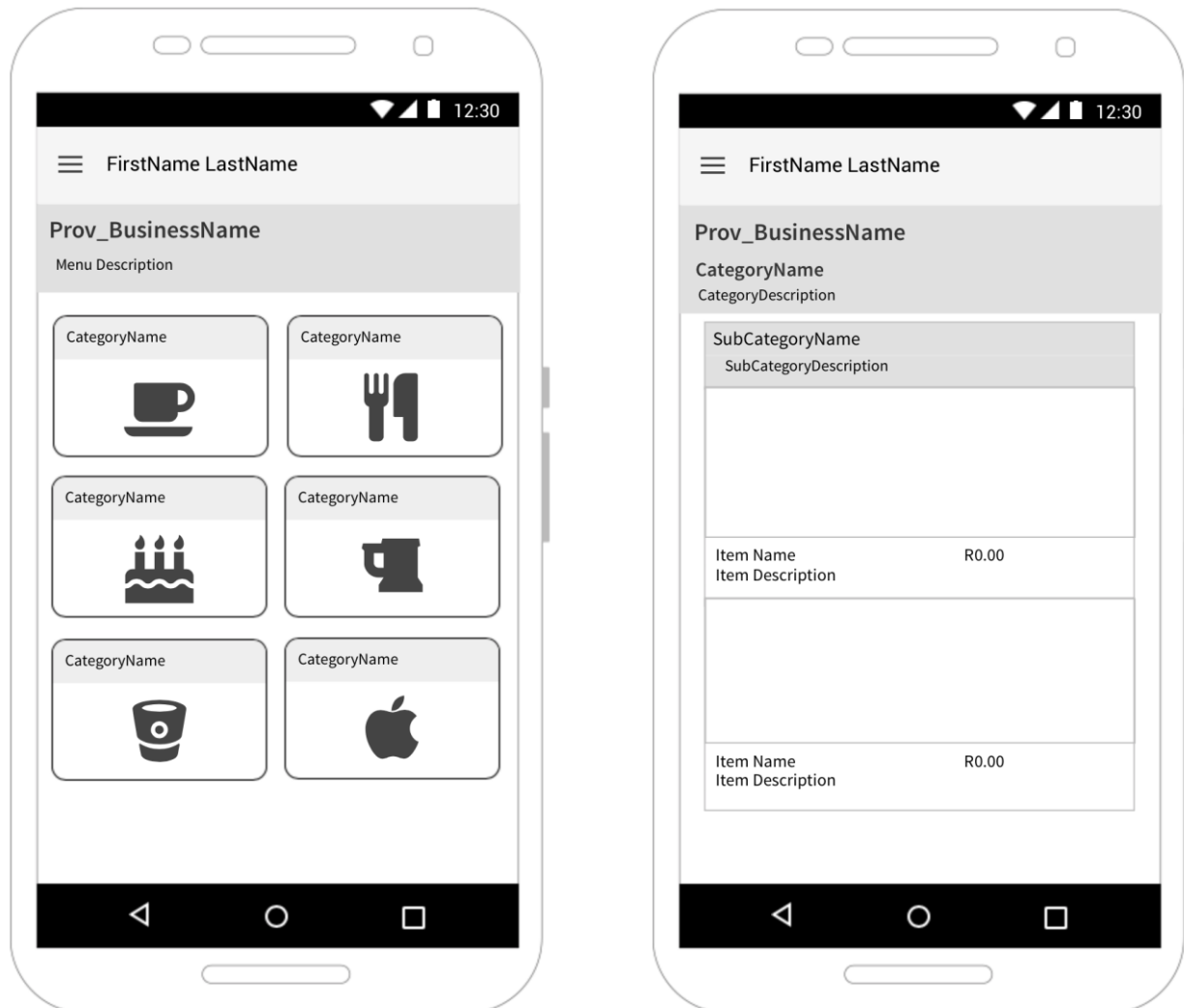
The checkout page is displayed.

Order is cancelled and user is returned to the menu page.

User is returned to menu page, order is not cancelled.

Order is place and appropriate provider is notified.

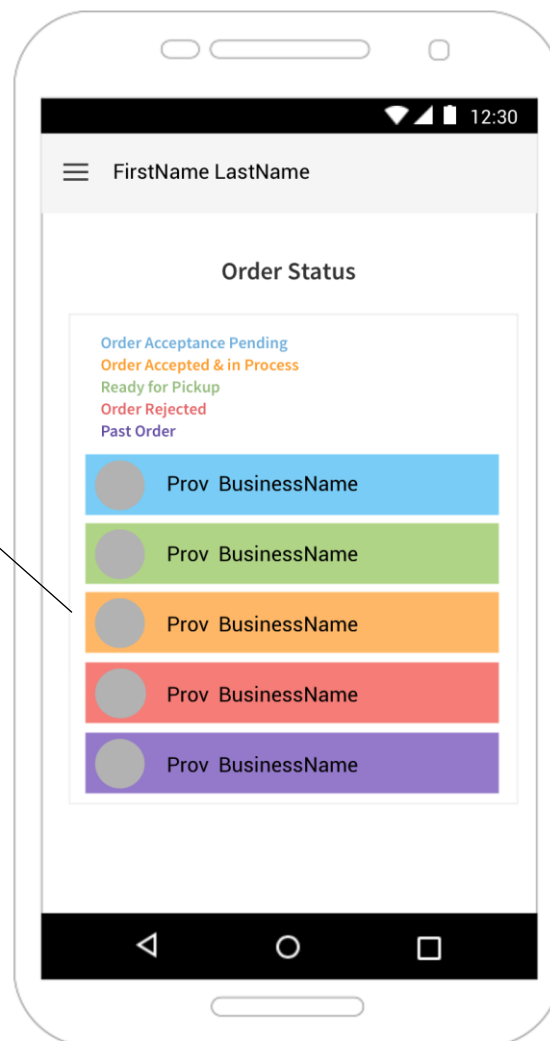
## B0800 View Menu (Category View & Subcategory View)



Similar to B0400 UI, except no order functionality is present. No checkout button, no cart view and no quantity specification.

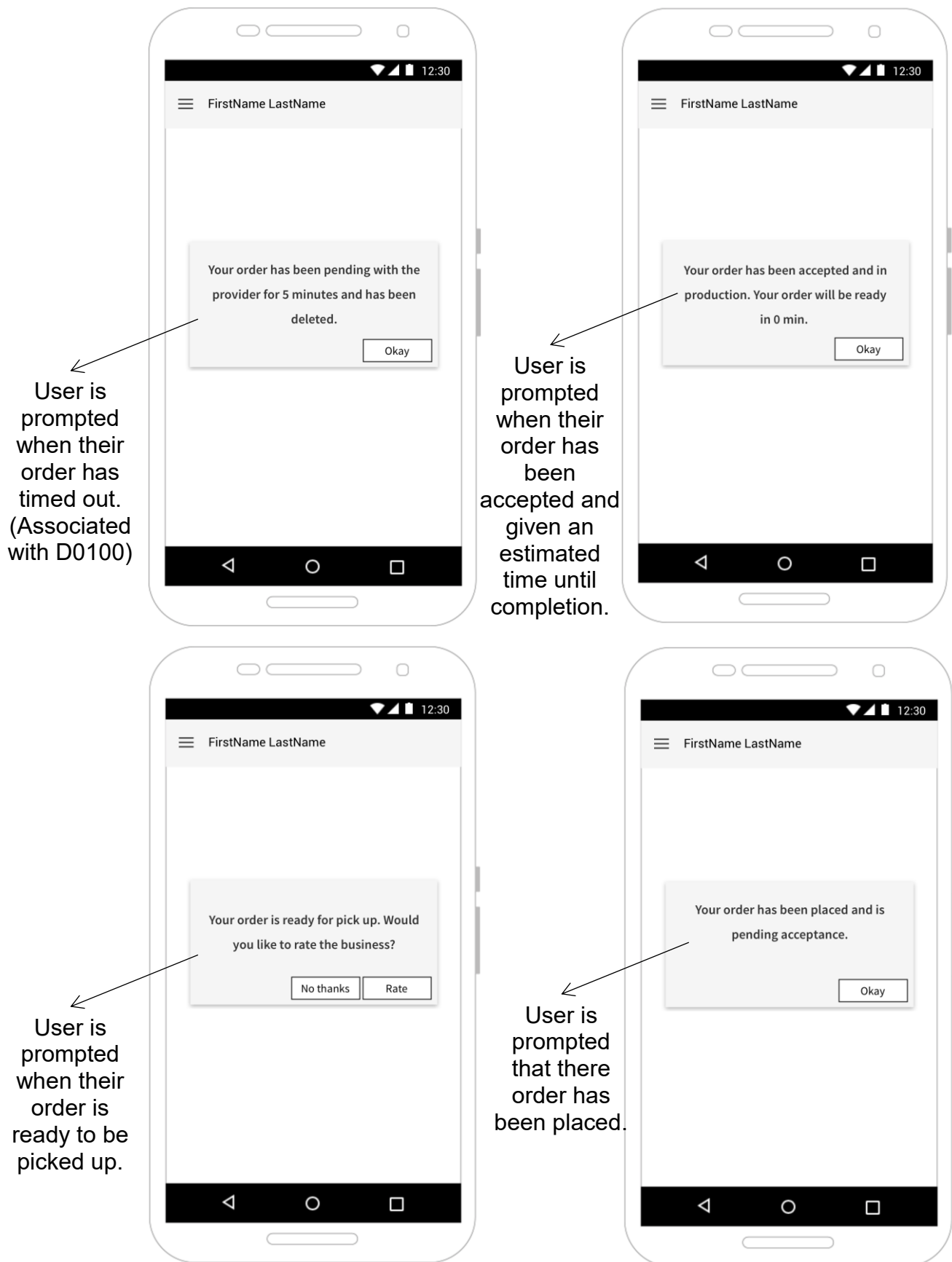
## B0900 View Order Status

Order are arranged by date  
and are colour-coded to  
represent their status.  
(Colours are not final)



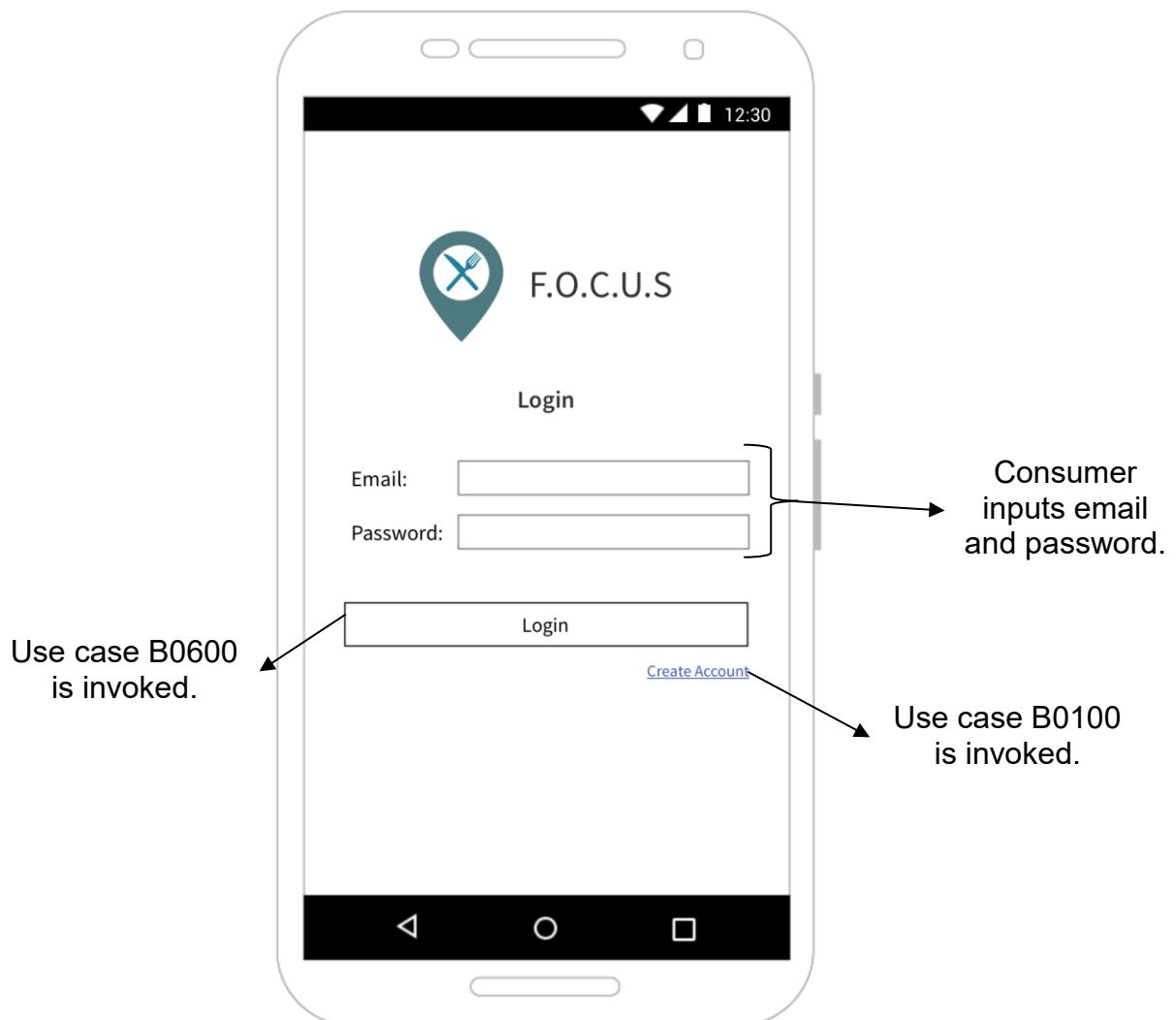


## B0900 View Order Status (Pop-ups)

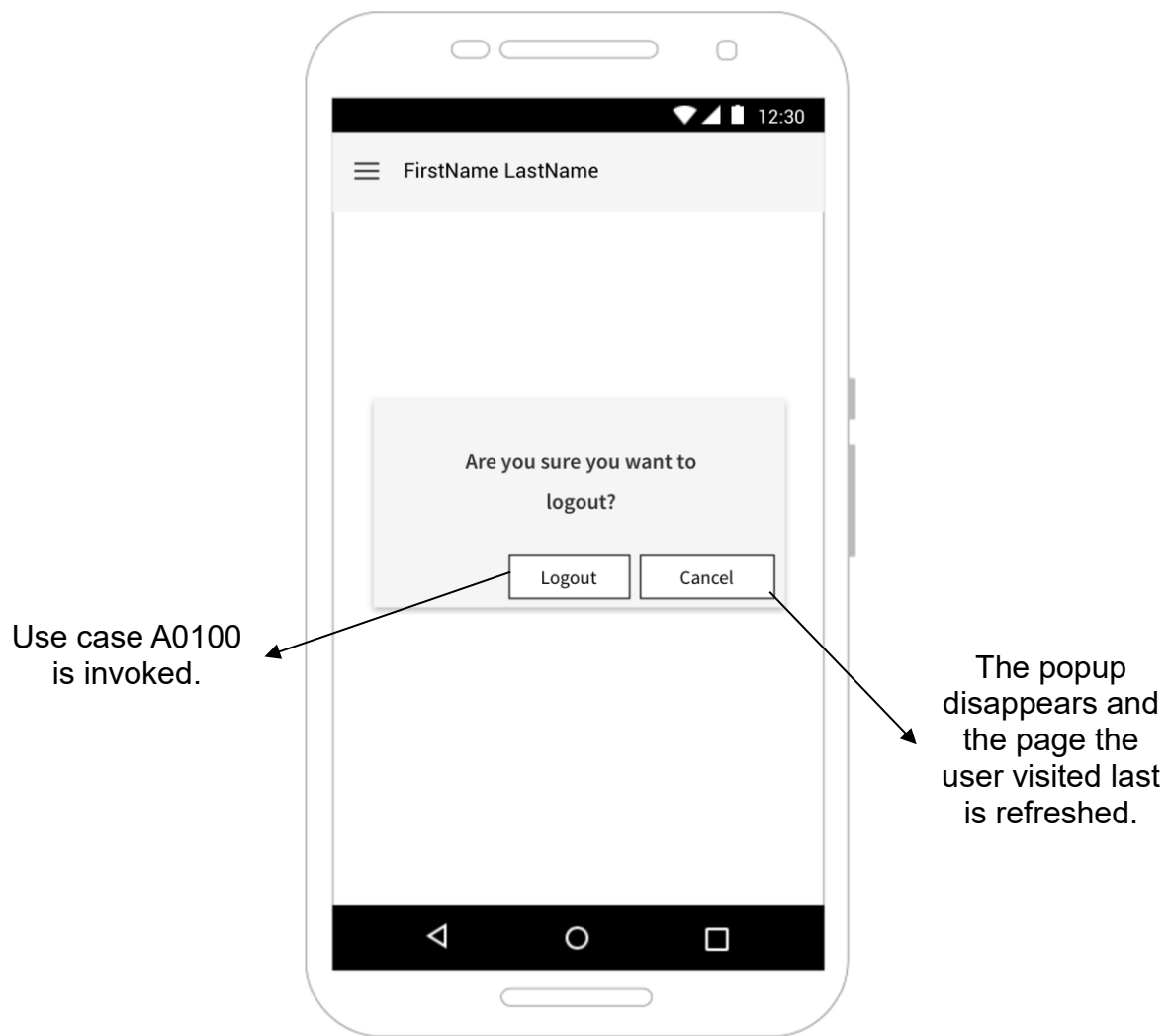


### 2.2.3 Klara Lategan

## A0100 Login (Consumer)



## A0200 Logout (Consumer)



## B0100 Create Consumer Account

The image shows a mobile application interface for creating a consumer account. At the top, there is a status bar with the time 12:30 and signal/battery icons. Below the status bar is a header with a logo (a blue circle with a white 'X' and a fork) and the text 'F.O.C.U.S'. The main title is 'Create Account'. Below this, there are six input fields: 'First Name:', 'Last Name:', 'Email:', 'Phone Numer:', 'Password:', and 'Confirm Password:'. Each field has a corresponding input box. A bracket on the right side of these fields points to the text 'Consumer enters all necessary information.'. Below the input fields are two buttons: 'Cancel' and 'Create Account'. An arrow points from the 'Cancel' button to the text 'All new information is cleared and use case A0100 is invoked.'. Another arrow points from the 'Create Account' button to the text 'New information is saved and use case A0100 invoked.'. The bottom of the screen shows a standard Android navigation bar with back, home, and recent apps buttons.

First Name:

Last Name:

Email:

Phone Numer:

Password:

Confirm Password:

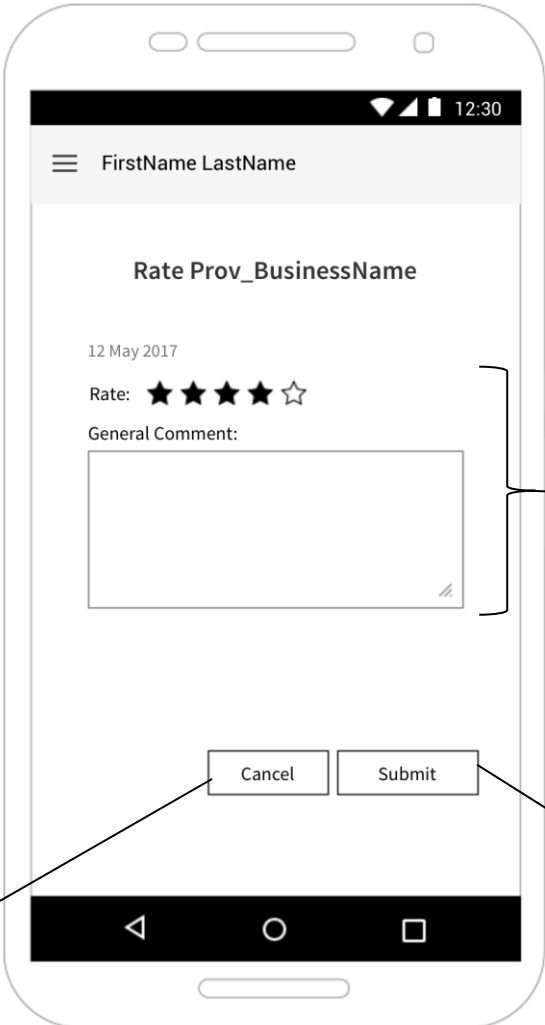
Cancel Create Account

Consumer enters all necessary information.

All new information is cleared and use case A0100 is invoked.

New information is saved and use case A0100 invoked.

## B0300 Rate Provider



The image shows a mobile application interface for a 'Rate Provider'. At the top, there is a header bar with a hamburger menu icon and the text 'FirstName LastName'. Below this is a title 'Rate Prov\_BusinessName'. The main content area displays the date '12 May 2017', a 'Rate:' section with five stars (the last one is an outline), and a 'General Comment:' section with a text input field. At the bottom, there are two buttons: 'Cancel' and 'Submit'. Three arrows point from text annotations to the interface: one from the 'Cancel' button to the left, one from the 'Submit' button to the right, and one from the star rating and comment field to the right.

12 May 2017

Rate: ★★★★★

General Comment:

Cancel Submit

Consumer rates a provides and is allowed to give a general comment.

All new information will be cleared and use case B0700 is invoked.

New information is saved and use case B0700 is invoked.

## B0300 Rate Provider

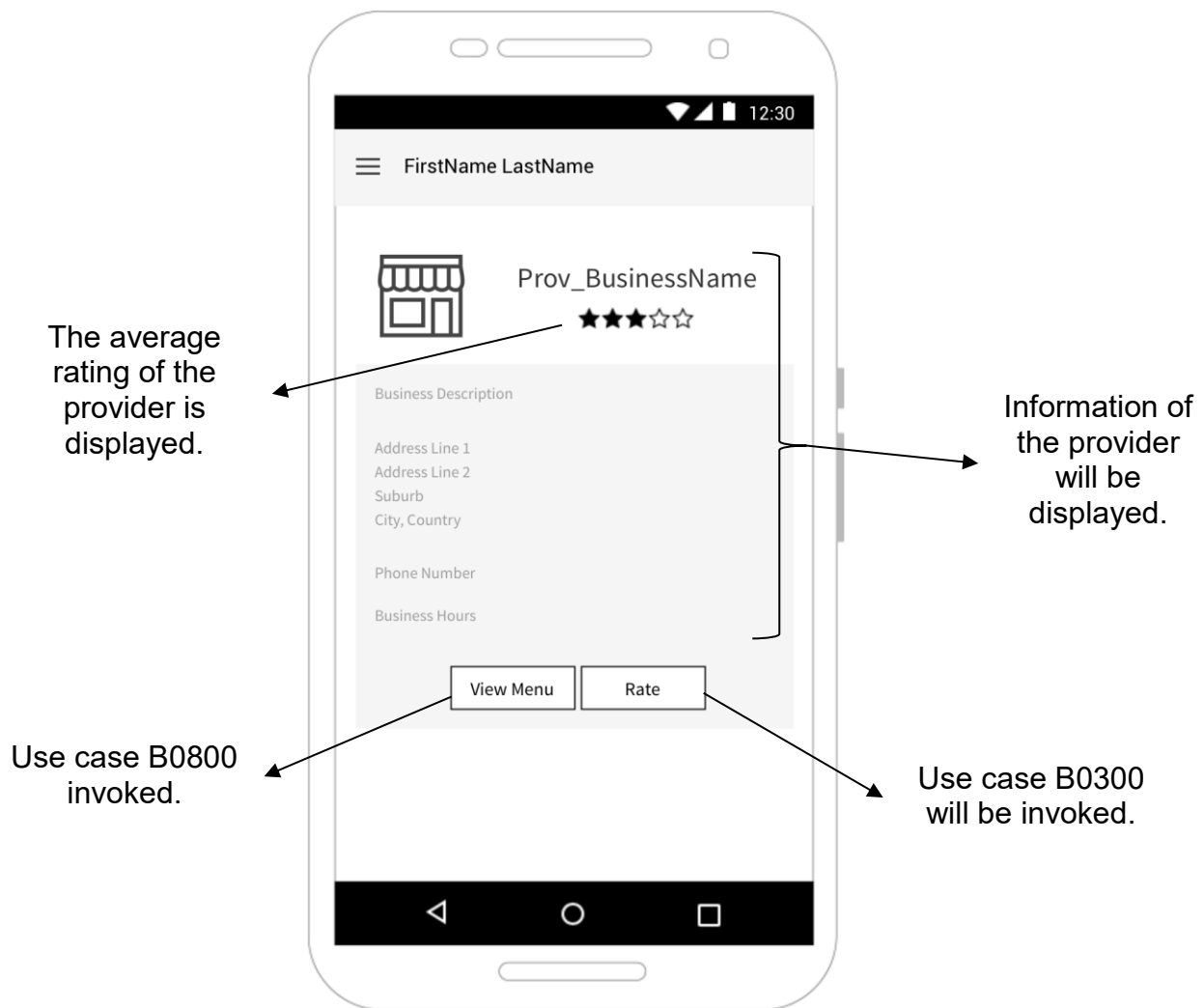
The image shows a mobile application interface for rating a provider. At the top, there is a status bar with the time 12:30 and battery level. Below it is a header bar with a hamburger menu icon and the text "FirstName LastName". The main content area is titled "Rate Prov\_BusinessName". It displays the date "12 May 2017" and a rating section with the text "Rate:" followed by five stars, where the last star is outlined. Below the rating is a text input field labeled "General Comment:". At the bottom of the form are two buttons: "Cancel" and "Submit".

Consumer rates a provider and is allowed to give a general comment.

All new information will be cleared and use case B0700 is invoked.

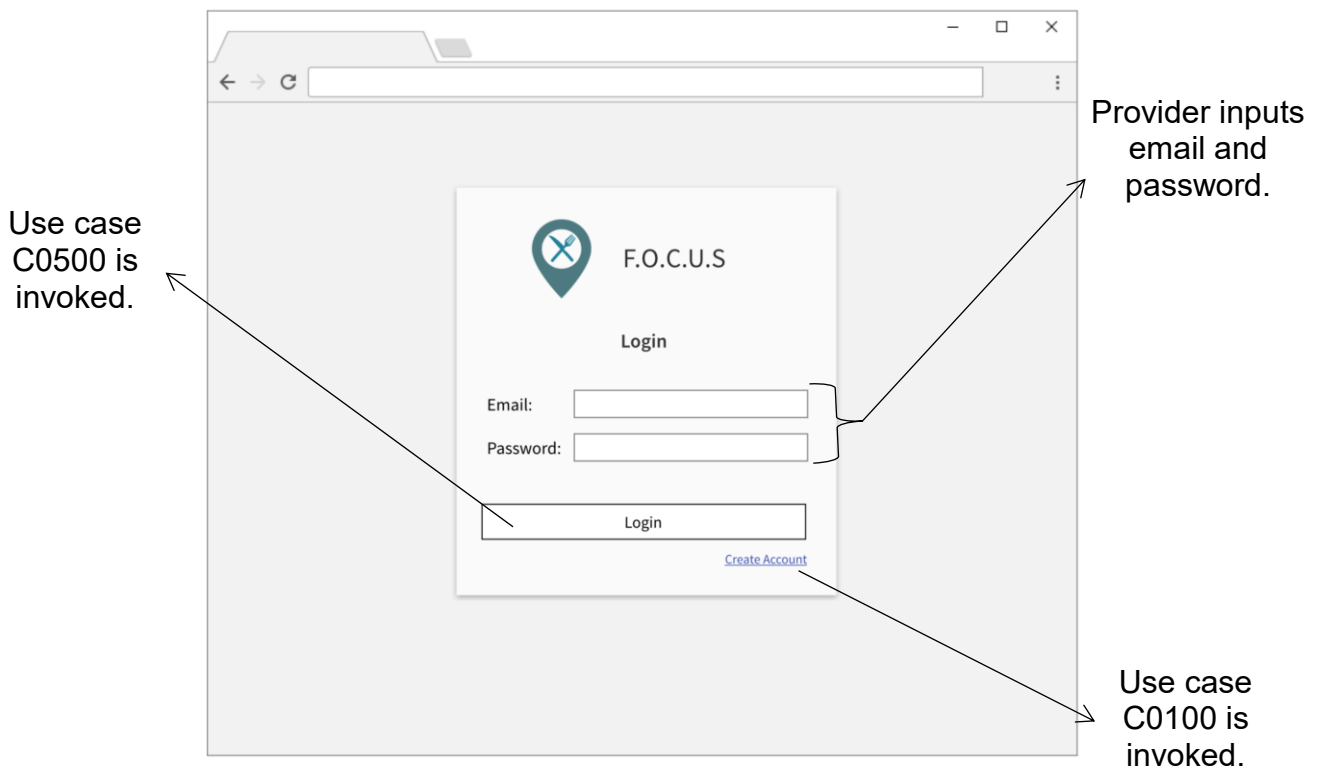
New information is saved and use case B0700 is invoked.

## B0700 View Provider



## 2.2.4 Charné Keen

### A0100 Login (Provider)





## C0200 Maintain Provider Details

Provider modifies appropriate details.

The screenshot shows a web browser window with the URL 'Prov\_BusinessName'. The main content area is titled 'Maintain Details'. It contains the following fields and controls:

- Email: joe.soap@gmail.com
- Password: \*\*\*\*\*
- Admin Password: \*\*\*\*\*
- Business Name: Joe's Restaurant
- Phone Number: 071 349 1203
- Address: 49 Beach Road, Address Line 2, Humewood, Port Elizabeth, South Africa. To the right of the address is a location selection icon.
- Business Hours: 10:30 - 12:30 Weekdays
- Allow Ordering: A toggle switch currently set to 'off'.
- Buttons: Cancel and Save.

Annotations with arrows point to the following elements:

- An arrow points to the 'Allow Ordering' toggle switch.
- An arrow points to the 'Save' button.
- An arrow points to the location selection icon next to the address field.
- An arrow points to the 'Maintain Details' title.

Provider can select their location on Google maps and their address will be filled automatically.

Modified information is saved and page is refreshed with new information.

Will be no by default. Provider can choose whether ordering over the system is allowed.

Modified information is not saved and page is refreshed with old information.

## C0600 View Ratings

The screenshot shows a web browser window displaying a page titled 'View Ratings'. The page header includes a menu icon and the text 'Prov\_BusinessName'. The main content area features a 'Current Rating' section showing five stars, and a table of individual ratings. Annotations with arrows point to specific elements: one points to the 'Current Rating' stars, and another points to the 'Rating' column of the table.

Provider's current rating is shown (average of ratings)

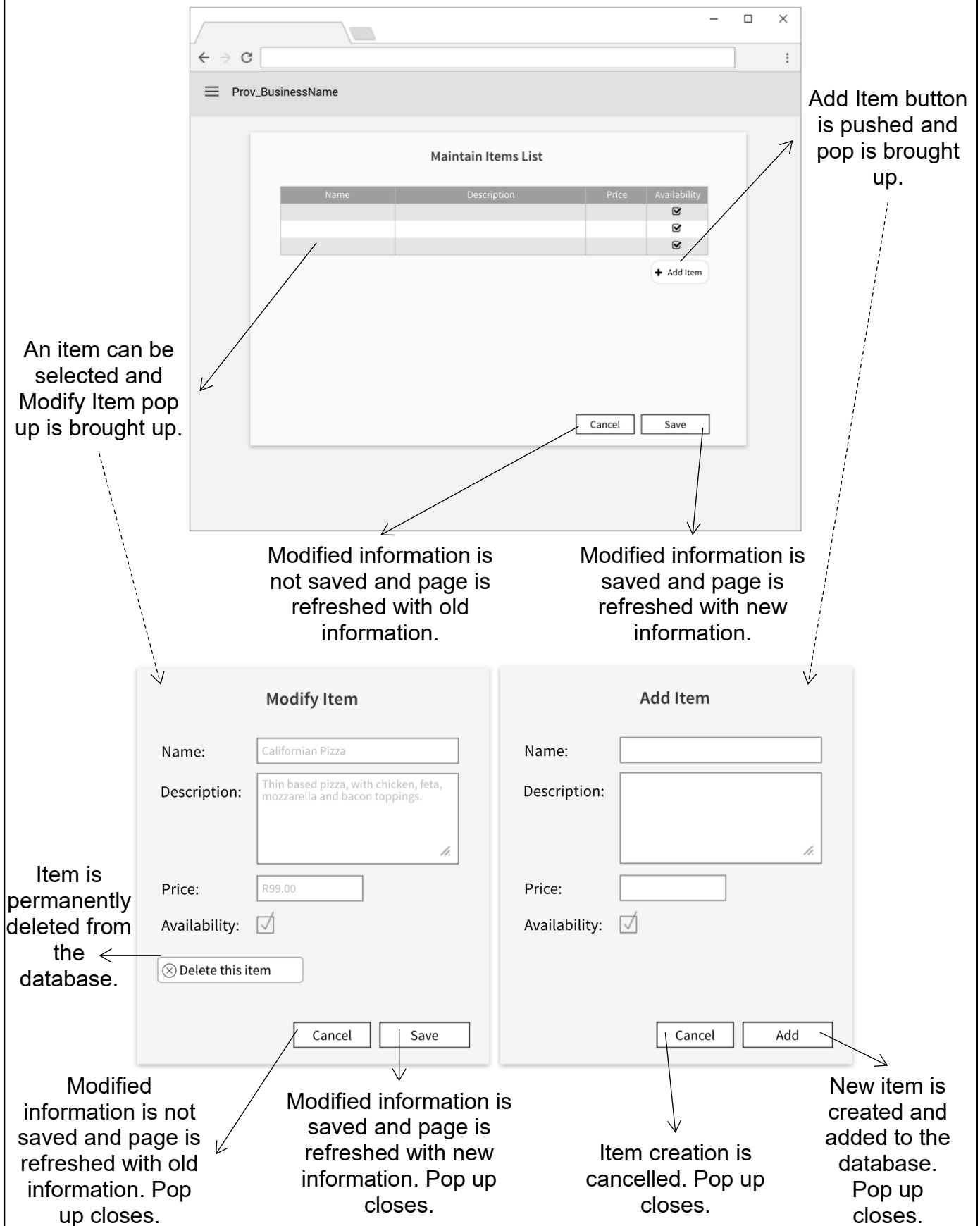
Provider's ratings are shown in order of latest date.

View Ratings

Current Rating: ★★★★★

Date	Description	Rating
		★★★★★
		★★★★★
		★★★★★

## C0700 Maintain Food Items



## C0400 Maintain Food Items

Modify Category/  
Subcategory/  
button is pushed and  
relevant pop  
is brought up  
(see pop up  
below).

Add Item  
button is  
pushed and  
pop is  
brought up.

Modified  
information is  
saved and page  
is refreshed with  
new information.

Add Category  
button is pushed and pop is  
brought up (see pop  
up below).

Add Subcategory  
button is pushed and  
pop is brought up  
(see pop up below).

Modified information is  
not saved and page  
is refreshed with old  
information.

Item Name	Availability
	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>

Selected  
subcategory will  
be shown here  
but can be  
changed.

Add Item pop up is  
shown (can be found  
under use case C0700)

Availability is shown  
here but cannot be  
changed.

Adding an item  
is cancelled.  
Pop up closes.

Selected item is added  
to the specified  
subcategory. Pop up  
closes.

## C0400 Maintain Food Items (Pop-ups)

### Add Category

Name:

Description:

Cancel

Add

Category is not created. Pop up is closed.

Category is created. Pop up is closed.

### Add SubCategory

Name:

Description:

Category:

Cancel

Add

Subcategory is not created. Pop up is closed.

Subcategory is created. Pop up is closed.

### Modify Category

Name:

Desserts

Description:

All desserts come with ice-cream or cream.

⊗ Delete category

Cancel

Save

Modified information is not saved. Pop up is closed.

Modified information is saved. Pop up is closed.

Category/Subcategory is permanently deleted from the database.

### Modify SubCategory

Name:

From the Grill

Description:

Meals come with chips, rice or salad and your choice of sauce.

Category:

⊗ Delete subcategory

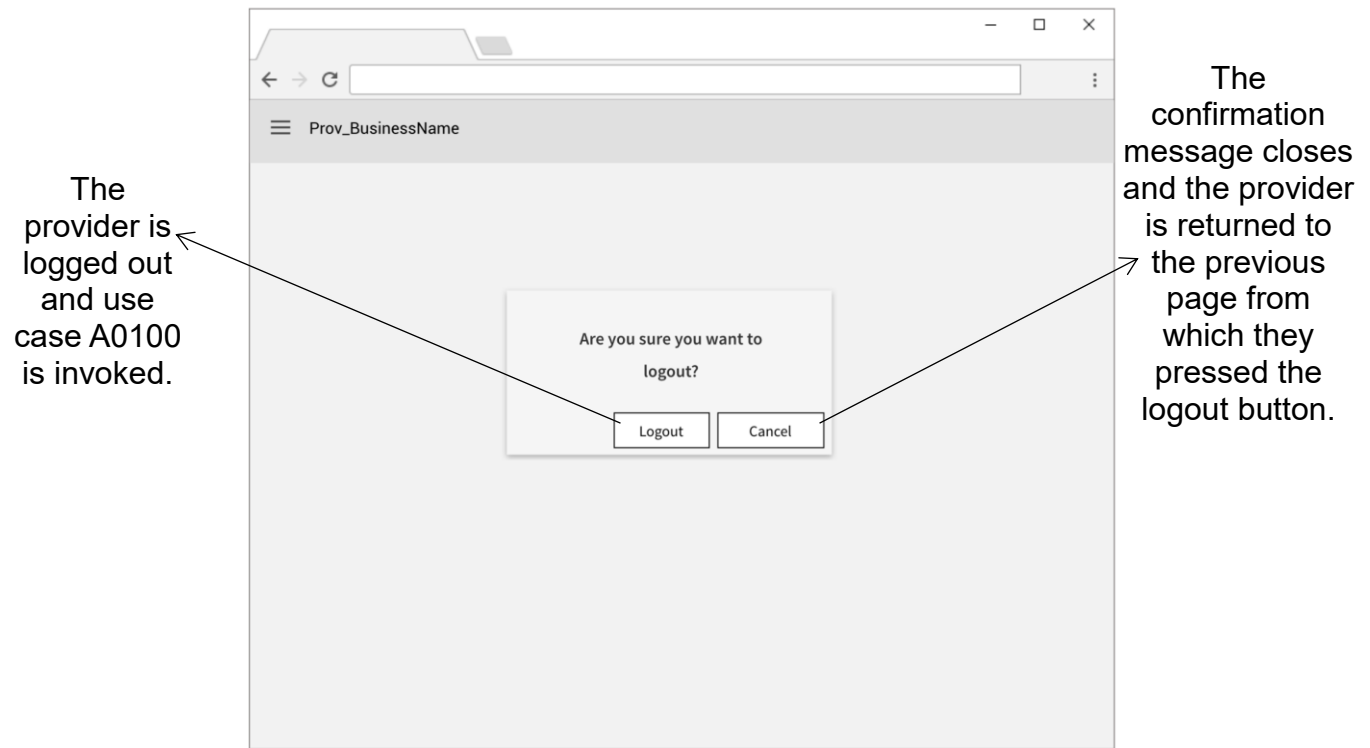
Cancel

Save

Modified information is not saved. Pop up is closed.

Modified information is saved. Pop up is closed.

## A0200 Logout (Provider)



## C0100 Create Provider Account

The screenshot shows a web browser window displaying the 'F.O.C.U.S. Create Account' form. The form includes the following fields: Business Name, Address (with sub-fields for Address Line 1, Address Line 2, Suburb, City, and Country), Email, Phone Number, Password, Confirm Password, Admin Password, and Confirm Admin Password. At the bottom are 'Cancel' and 'Create' buttons. Annotations with arrows point to specific parts of the form: one points to the Address sub-fields with the text 'Provider can select their location on Google maps and their address will be filled in automatically. This information can be edited.'; another points to the Password, Confirm Password, Admin Password, and Confirm Admin Password fields with the text 'The provider inputs the appropriate details. All details are required.'; a third points to the 'Cancel' button with the text 'All information is cleared and use case A0100 is invoked.'; and a fourth points to the 'Create' button with the text 'The provider's account is created and use case A0100 is invoked.'

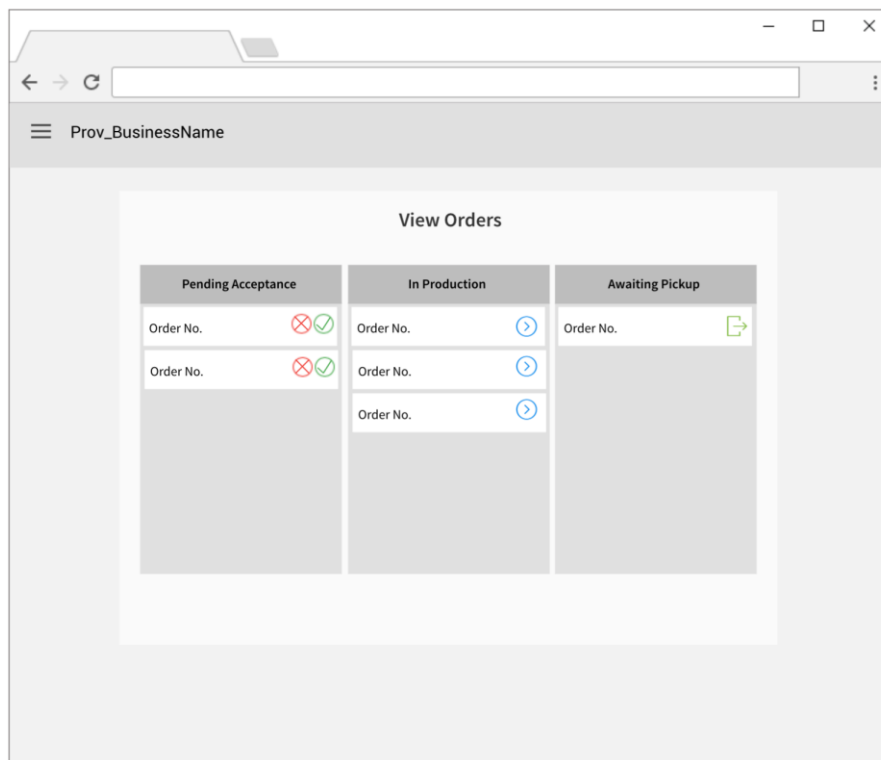
Provider can select their location on Google maps and their address will be filled in automatically. This information can be edited.

The provider inputs the appropriate details. All details are required.

All information is cleared and use case A0100 is invoked.

The provider's account is created and use case A0100 is invoked.

## C0500 View Orders



The provider is provided with a list view of all current order. The orders are grouped based on their current phase. Pressing one of the buttons invokes use case C0300.



## C0300 Maintain Order

An order can be declined by the provider. The provider is asked to confirm the deletion.

An order's details can be viewed by pressing on the order's number.

An order can be moved to the next phase by the push of the button. A confirmation message popup appears.

An order can be accepted and moved to the next phase by the push of the button. A confirmation message popup appears.

Prov\_BusinessName

View Orders

Pending Acceptance In Production Awaiting Pickup

Order No. Order No. Order No.

Item Name	Quantity	Total Price

Order Comment:  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc maximus, nulla ut commodo sagittis, sapien dui mattis dui, non pulvinar lorem felis nec erat

Total: R0.00

### Estimate Time Of Completion:

20 min

Cancel

Okay

Closes the popup and the order's phase remains unchanged.

Closes the popup and moves the order to the "In Production" phase. The estimated time of completion is sent as a notification to the consumer.

### Confirm move of order number x?

Cancel

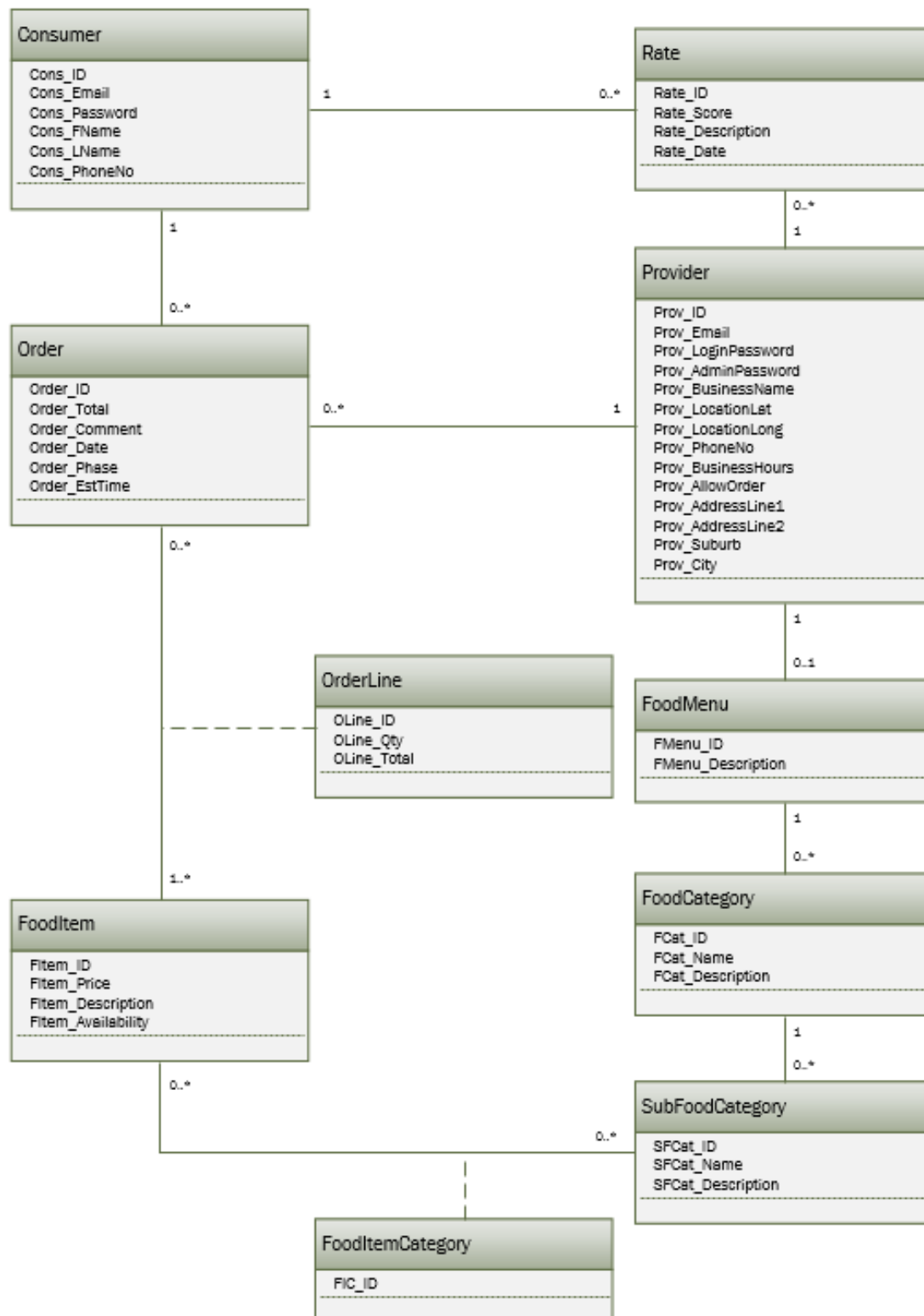
Yes

Closes the popup and the order's phase remains unchanged.

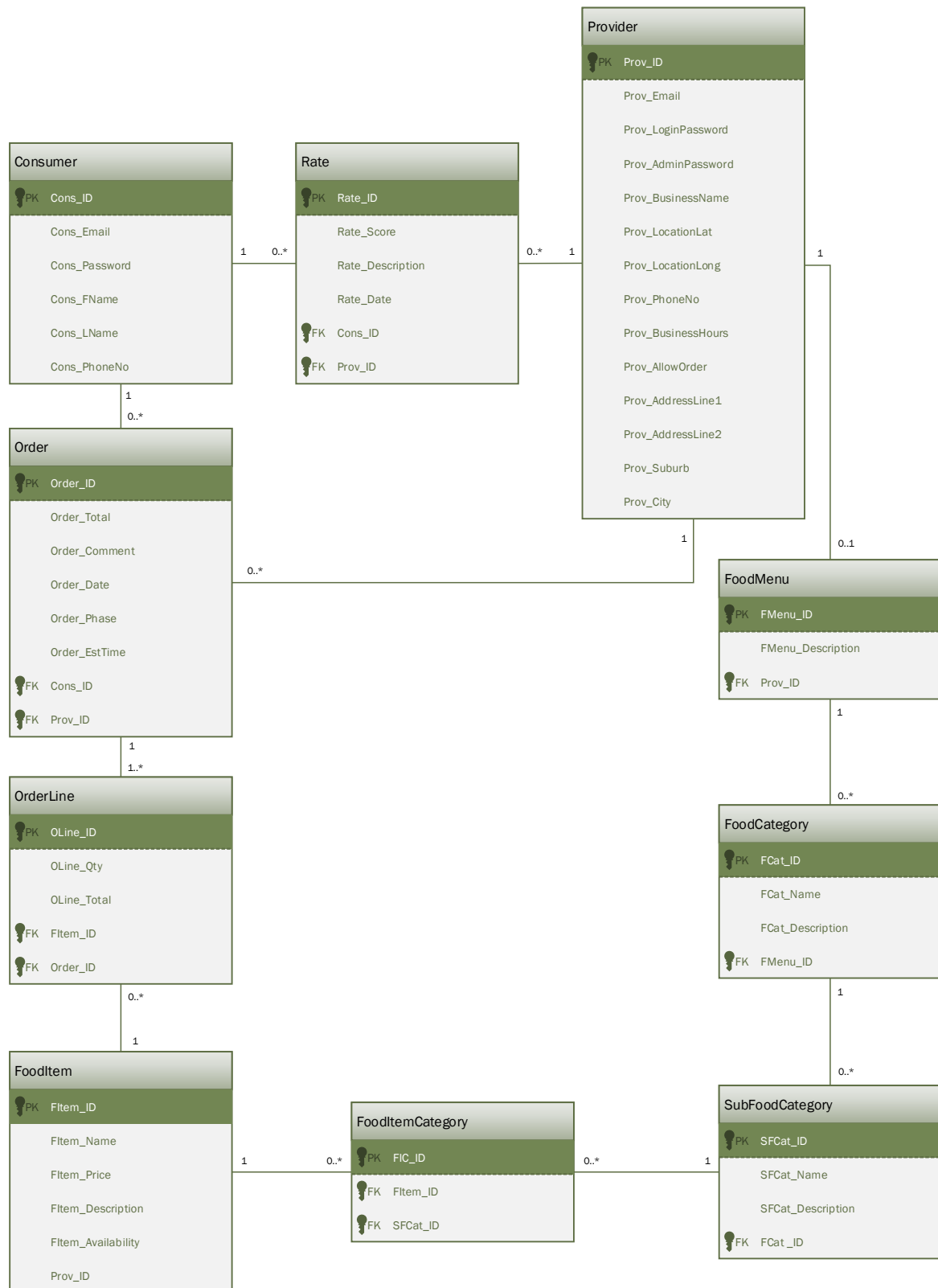
Closes the popup and moves the order to the next phase. If the order was in the "Awaiting Pickup" phase, the order is removed from the View Order screen.

### 3 DATA REQUIREMENTS

#### 3.1 Domain Class Diagram



## 3.2 Implementation Ready Class Diagram



Note: The Prov\_ID attribute in FoodItem is only there to speed up queries and is not a foreign key.