# Business Requirements V0.02

## Core

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| BR # | Description |
| Cor01 | As a user of the airCanteen website, I need to get a feeling that the website is a single page application. |
| Cor02 | As a user of the airCanteen website, I need to be able to received real time notifications for a variety of events.  These events can range from   * new food items that have been added by Chef’s in my prior orders * as other people like food items that I am currently viewing * as orders are being placed for food items that I am currently viewing * when food order status has change (e.g. being delivered) * when the available potion count for a given food item is getting below a threshold (2)   To enable these notifications, a push to browser mechanism needs to be implemented.  In the future, once mobile apps are also built, the notifications may be enhanced by mobile app notifications. |
| Cor03 | As a user of the airCanteen website, I must experience a responsive behaviour from the website so that the content will be displayed with the most optimal UI configuration to target the device I am using (e.g. mobile, tablet, desktop). |
| Cor04 | As an owner of the airCanteen website, I should be able to plug in other application delivery methods (e.g. mobile, tablet, desktop etc) without having to rebuild the backend business logic required.  This would require some form of api such as a REST based api.  This api can then be used for future mobile phone application development.  I must be confident that application logic will be uniformly applied across all such delivery methods. |
| Cor05 | As an owner of the airCanteen website, I should be able to plug in other themes so that the look and feel can be changed if required.  The application does not need to support multiple look and feels within the same application instance. I must however be confident that the application when deployed multiple times, can be operated with different themes on each deployment. |

## Security

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| BR # | Description |
| Sec01 | As an anonymous user, when I access the airCanteen url, the system should display the airCanteen landing page.  If I access any unsecured pages, then the requested page should be displayed. |
| Sec02 | As an anonymous user, when I access any secure url within the airCanteen hostname, I should be redirected to the login page. I should not be able to access any secure pages/resources/data unless I have logged in and my security profile grants me access.  I should never be able to see information that are related to others unless I have been granted permission to do so. |
| Sec03 | To be able to login, I must create a profile within airCanteen or login via Live/Office 365, Facebook, Twitter or Google.  To create a profile within airCanteen, the minimum set of information I must be provided at signup are:  Email address  Full name  Password  The email address must be unique in the system.  The system should save the details in the database and then send an activation notification email containing a unique encrypted link to the nominated email address. |
| Sec04 | When accessing a security related page such as the:  Signup page  Login page  Password reset page  I must prove to the system that I am a human (Recaptcha). |
| Sec05 | Any personal information I entered into the system should be secure and only accessible by myself or by persons/clients that have been authorised by me to access my details.  The only other group of people that may access my personal information are authorised airCanteen personnel for routine maintenance purposes. |
| Sec06 | To be able to use my newly created profile, as a user who has signed up, I must first activate my profile by validating my email address.  When the system sends me an activation email, I will need to access my email and click the activation link. |
| Sec07 | To be able to login using an airCanteen user profile, I need to enter my  Email address  Password  and validate these against the profile stored in the database.  If the details match an activated unrestricted profile, the system should allow me to access the secured page.  If the details match but the profile has not been activated, then the system should resend an activation email. |
| Sec08 | If I have forgotten my password, I should be able to access a page that will allow me to reset the password that is associated with my email address only. |
| Sec09 | When on the login screen, an anonymous user should be able to use the following methods to login to the application.   * Live/Office 365 * Google * Facebook * Twitter |

## Product Ordering

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| BR # | Description |
| Ord01 | To be able to take part in the ordering process, the user must be logged in. However, there are many functions that anonymous users can perform. Logging in is enforced only when progressing further without a user profile does not make sense. |
| Ord02 | The airCanteen ordering process will have 3 main actors.  Customers will search for food, place food requests and orders  Chefs will post food that is available for sale, cook the food and facilitate pickup/delivery.  airCanteen staff will engaged in maintenance tasks.  The ordering process mainly, although not limited to, the interaction a Customer would be having with airCanteen. |
| Ord03 | As an anonymous/logged in Customer, when the airCanteen url is accessed within a browser, the default landing page will be displayed.  The landing page will allow me to:  Search for a food items  Display many pre-packaged lists of items that fall into various categories (e.g. Thai, Aztec, Russian foods).  Each pre-packaged list of food items will show 4 food items and a more link. Each food item displayed will function like search results.  A menu will allow me to view   * Canteen - Food items I am willing to sell * Orders - Food items I have ordered * Signup/Login |
| Ord04 | As an anonymous/logged in Customer, I will be able to search for food that I would like to purchase.  The search will accept text and will search all details of the food and display the most relevant food items. When determining the relevance, aspects such as Popularity, review quality, review count, location proximity, delivery options, cost, negative review, purchase history, search behaviour, wish list will be used. This algorithm is yet to be finalised.  For the searching, an approximate location based on IP address etc will need to be used.  A change location button must allow changing of the current location.  Results can be sorted by cost, proximity, popularity.  Only active food items must be displayed in the search results.  Results will be displayed in a lazy load and infinite scroll manner.  Search results displayed will contain the following:   * Primary photograph * Title * Price for a potion * Name of Chef * Date created * Summary of the food * Prescribed tags * Distance from current Customer location to the Chef * Popular (heart) image * A menu of icons   The menu of icons will allow me to   * Add to cart * View reviews * Available location * Phone the chef * Email the chef * Share |
| Ord05 | As an anonymous/logged in Customer, clicking on the “Change location” button will show a modal dialog with a search box.  It should accept text such as:   * SomeCity * SomeCity, State * Some Street, SomeCity, State * 1/547 Some Street, SomeCity, State   Entering any of the text above should search for locations and display them as a look-a-head dropdown for selection. Once selected, the location will be set for the current Customer session.  If the Customer is logged in, in addition to the above search, the previously used 4 locations must be displayed so that the customer can select. Once selected, the location will be set for the current Customer session. |
| Ord06 | As an anonymous/logged in Customer, when I click on a search result, more details about the selected food item needs to be displayed.   * A collection of photographs (where available) as a photo carousel * Title * Price for a potion * Potion size * Name of Chef * Date created * Availability location * Pickup / delivery options * Special conditions (i.e. buy 2 to get 20% off) * Summary of the food * Prescribed tags * Popular (heart) image with the average review score (out of 10) * A menu of icons (Add to cart, Phone the chef, Email the chef, Available location & Share) * Review comments from Customers (max 3 + more) * Other food available from the same Chef (max 3 + more) * Similar foods available from different nearby Chefs (max 3 + more) * What others who have bought this food item have also bought (max 3 + more) |
| Ord07 | As an anonymous Customer, when I click on any of the following menu icons, I should be directed towards the signup/login page.   * Signup/Login * Add to my cart * Phone the Chef * Email the Chef |
| Ord08 | As an anonymous/logged in Customer, clicking on the more link within Review Comments or on the “View reviews” button will show a modal dialog with the reviews.  Each review will consist of a review score out of 10, comment, name of the commenter and the comment date and time.  Results will be displayed in a lazy load and infinite scroll manner so that I don’t lose my web page context.  A context aware search box will allow me to filter out the reviews. |
| Ord09 | As an anonymous/logged in Customer, when I click on the more link in either of the following lists:   * Pre-packaged food item lists * Other food available from the same Chef list * Similar foods available from different nearby Chefs * What others who have bought this food item have also bought   A modal dialog with more food items will be displayed.  Results will be displayed in a lazy load and infinite scroll manner so that I don’t lose my web page context.  A context aware search box will allow me to filter out the reviews.  Clicking on a pre-packaged list food item will have the same behaviour as clicking on a search result.  Only active food items must be displayed in the results. |
| Ord10 | As a logged in Customer, clicking on the “Add to cart” or “Reorder” icon will add one potion of the selected food item to my shopping cart.  If this is the first food item added to the cart for the current session, then the contents of the shopping cart should be displayed on the side as an unobtrusive popup.  The shopping cart popup must display a confirmation of addition message which will disappear within a few seconds.  Clicking again on the “Add to cart” icon must add another potion to the existing cart line item, again displaying the addition confirmation message which will disappear within a few seconds. |
| Ord11 | As a logged in Customer, once atleast 1 food item has been added to the shopping cart and the shopping cart popup is visible, then the popup must appear on all visited pages from then on and follow the Customer as they scroll up and down any visited page.  The shopping cart popup must only be displayed when the first food item is added to the cart. The shopping cart must be displayed on the side as an unobtrusive popup.  The shopping cart will display the following:   * Title of the food item * Potions ordered * Total cost per line item * Name and suburb of the Chef * Pickup/delivery method * Taxes (There might be 1 or more taxes that need to be applied in different jurisdictions) * Grand total * Checkout button   Next to each line item would be three buttons that will allow:   * Add an extra potion * Remove a potion * Remove the food item completely   Clicking on the above line item buttons will instantly update the shopping cart and display a confirmation message. The message will disappear within a few seconds. |
| Ord12 | As a logged in Customer, clicking on the “Phone the chef” icon will display the Chef’s phone number if available.  The “Phone the chef” button must be visible only for logged in Customers and if the Chef has provided a phone number. The button will not be visible for anonymous Customers. |
| Ord13 | As a logged in Customer, clicking on the “Email the chef” icon will display the Chef’s email address.  Since email address is a mandatory field, the “Email the chef” button will always be visible to logged in users. The button will not be visible for anonymous Customers. |
| Ord14 | As an anonymous/logged in Customer, clicking on the “Available location” button will show a modal dialog with a Google map type map with an appropriate zoom level to show the surrounding vicinity of where the food is located. |
| Ord15 | As a logged in Customer who has added food items to the shopping cart, clicking on the “Checkout button” will display the Payment and collection page.  This page will not display the shopping cart popup.  This page will display the following:   * The contents of the shopping cart similar to how the shopping cart popup displays * A form to capture the delivery details if delivery is an option (delivery address, required by date and time) * A form to capture the pickup details if pickup is an option (pickup date and time) * Button to link to the payment service provider of choice to process payment. * Once payment has been processed, control will be passed back to airCanteen to display the payment reference number and confirmation.   An order confirmation and payment receipt will be emailed to the Customer & Chef. |
| Ord16 | As a logged in Customer, clicking on the Orders button will display my prior orders.  Each order displayed will consist of:   * A list of food items purchased * Name of the Chef and location * Total cost * Date the purchase was made   Results will be displayed in a lazy load and infinite scroll manner so that I don’t lose my web page context.  A context aware search box will allow me to filter out the orders.  Clicking on an order will display the order details. |
| Ord17 | As a logged in Customer, when I click on a prior order then the order page will be displayed.  This page will display the following:   * The contents of the order similar to how the shopping cart popup displays * The delivery details if delivery was an option (delivery address, required by date and time) * The pickup details if pickup was an option (pickup date and time) * The payments that have been made including reference numbers   If any of the line items are currently available for sale by the same Chef, then the line item will have an “Reorder” button. |
| Ord18 | As a logged in airCanteen maintenance person, I should be able to perform routine maintenance tasks.  These have not been defined as yet and for the moment will be out of scope. |
| Ord19 | As a logged in Chef, clicking on the Orders button will display orders made by Customers for me to fulfil.  Each order displayed will consist of:   * A list of food items purchased * Name of the Customer and location * Total cost * Date the purchase was made and required fulfilment date * Selected delivery option   Results will be sorted by default on the required fulfilment date, earliest first.  Results will be displayed in a lazy load and infinite scroll manner so that I don’t lose my web page context.  A context aware search box will allow me to filter out the orders.  Clicking on an order will display the order details.  I can also click on a “My orders” icon to view orders placed by me as a Customer rather than a Chef. This will display the orders page as if I was a Customer, showing orders that I have placed for other Chef’s to fulfil. This button will only appear if I am a Chef. |
| Ord20 | As a logged in Chef, when I click on a Customer order then the order page will be displayed.  This page will display the following:   * The contents of the order similar to how the shopping cart popup displays * The delivery details if delivery was an option (delivery address, required by date and time) * The pickup details if pickup was an option (pickup date and time) * The payments that have been made including reference numbers * A menu of icons (Order status, Refund) |
| Ord21 | As a logged in Chef, when I click on the Order status and select a status, the status update must take effect immediately.  The available statuses are In progress, Ready for pickup, Delivering, Cancelled. |
| Ord22 | As a logged in Chef, when I click on the Refund button I will be prompted with a warning dialog stating “The order ‘order number’ from customer ‘customer name’ will be cancelled and the payment refunded back to the customer. Are you sure?”.  Clicking on a confirm button will set the Order status to refunded and trigger the refund process with the payment service provider (if original payment was taken via credit card). No order data will be physically removed from the database.  Clicking on a cancel button will return to the original calling page. |

## Product Inventory

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| BR # | Description |
| Inv01 | To be able to take part in the inventory process, the user must be logged in. |
| Inv02 | The airCanteen inventory process will have 2 main actors.  Chefs will post food that is available for sale, cook the food and facilitate pickup/delivery.  airCanteen staff will engaged in maintenance tasks.  The product inventory process, although not limited to, covers mainly the interaction a Chef would be having with airCanteen. |
| Inv03 | As an anonymous/logged in Chef, when the airCanteen url is accessed within a browser, the default landing page will be displayed.  The landing page will look, feel and behave the same as the landing page described in the Ordering process. |
| Inv04 | As a logged in Chef, clicking on the Canteen button will display the list of food items that I am willing to cook and sell.  No food items that are in a Removed state will be displayed in this view.  The Canteen button will be visible to only those users who are logged in.  Each food item displayed will consist of:   * Primary photograph * Title * Price for a potion * Potion size * Popular (heart) image with the average review score (out of 10) * Total number of orders received in the last 3 month * Total earned * Date the last purchase was made * Status * A menu of icons (Edit, Active/inactive, Purchase history)   Results will be displayed in a lazy load and infinite scroll manner so that I don’t lose my web page context.  A context aware search box will allow me to filter out the food items.  Clicking on a food item will display the food item details.  In addition, an Add icon will be displayed to create new food items. |
| Inv05 | As a logged in Chef, when I click on a food item on the Canteen page, more details about the selected food item needs to be displayed similar to that displayed when a Customer clicks the search results.  If the food item is not in a Removed state, then in addition to the details displayed the following must be displayed.  The menu of icons will include Edit, Active/inactive, Purchase history and Delete. |
| Inv06 | As a logged in Chef, when I click on the Add button an empty form needs to be displayed so that details about the food item can be entered.  At a minimum the following fields are needed.   * Title * Price for a potion * Potion size * Availability locations * Pickup / delivery options (e.g. Pickup, Pickup after hours, deliver) * Payment options (e.g. Credit card, cash of delivery?) * Delivery radius and cost * Special conditions (i.e. buy 2 to get 20% off, buy 1 get one free, free delivery etc) * Summary of the food * Prescribed tags * Status (e.g. Active/Inactive) – default to Inactive   I must be able to upload one or more photographs, remove already uploaded photographs and select the default photo.  I must be able to select from a set of pre-defined Pickup/delivery options, Delivery costs and Special conditions. In addition, I should be able to enter one or more locations where this food item will be available from. These selections will affect how pricing is calculated. These options are yet to be finalised.  Setting the Status to Inactive will result in this food item not appearing in any search results.  Clicking on the Save button will save the details.  All the above fields and the need to upload atleast one photograph are mandatory. If the Save button is clicked prior to entering in all details, a friendly error message must be displayed and the errored field must be focused. |
| Inv07 | As a logged in Chef, when I click on the Edit button the details of the food item must be displayed in an editable form similar to that which is shown for Add.  All food item details must be pre-filled and available for editing.  Clicking on the Save button will save the details. |
| Inv08 | As a logged in Chef, when I click on the Active/Inactive button will update the status of the food item to either Active or Inactive.  Setting the Status to Inactive will result in this food item not appearing in any search results. Setting the Status to Active will result in this food item appearing in search results.  If updating from the Add or Edit food item pages, then the Save button must be clicked for the change to take effect.  If updating from the Canteen page, then the change must take effect immediately since there is no Save button. |
| Inv09 | As a logged in Chef, when I click on the Delete button I will be prompted with a warning dialog stating “The product ‘product name’ will be permanently deleted. Are you sure?”.  Clicking on a confirm button will set the status of the food item to Removed. No data including uploaded photographs will be physically removed from the database.  Clicking on a cancel button will return to the original calling page. |
| Inv10 | As a logged in Chef, when I click on the Purchase history button an itemised list of purchases for the selected food item must be displayed.  The page will state the food item’s title and for each purchase, the following:   * Customer name * Customer contact details * Price for a potion * Potion size * Number of potions ordered * Pickup / delivery option used * Payment option used * Delivery radius and cost * Special conditions applied * Total cost for the lineitem vs total cost for the order * Menu of icons (Edit, Inactive/active, Order details, Delete)   Results will be displayed in a lazy load and infinite scroll manner so that I don’t lose my web page context.  A context aware search box will allow me to filter out the food items. The list can also be filtered by purchase date range. |