Design Specification Document

Arrakis - Spice Emporium

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9/18/2015

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1 Introduction

1.1 Purpose of the document

This document describes and defines the system architecture, system design and GUI design as a guide for the development and design phases. Its purpose is to enable designer and developer to have an understanding of the project. The intended audience are the project manager, development team and design team. Some portions of this document such as the GUI may on occasion be shared with the client/user, and other stakeholder.

1.2 Scope of the project

The scope of the project is limited to the requirements formally identified in the User Requirements Document. 1

Inclusions

The system should include the following main functionalities:

- Different login for general public and hospitality professionals (private and commercial).
- Admin user login and reporting facility.
- Perform product search.
- Shopping Cart functionality.
- Wish list functionality.
- Discount for professional account holders on the total of the purchase.
- The website should process payments via PayPal.

Exclusions

The system will not include the following functionalities:

- Registration/Login before purchase: login will be required for users to be able to add products to the shopping cart.
- Social media login.
- Multilingual translation.
- Live chat support.

¹ User Requirement Document version 2.0 of 22-08-2015, author Susanna Zanatta

- User reviews and product rating facility.
- Blog facility.

Pages to be developed

- Registration page
- Login page
- About page
- Product categories pages
- Product details page
- Shopping cart page
- Payment page
- Privacy Policy page
- Terms and Conditions page
- FAQs page
- Contact page
- Admin area

1.3 Definitions and acronyms

	User with administrator permission	
Admin		
SEO	Search Engine Optimisation	
GUI	Graphic User Interface	
System	The "Arrakis – Spice Emporium" Website	
URD	User Requirements Document	
UC	Use case	

1.4 References

- 1. **ISO/IEC 19501:2005** Information technology -- Open Distributed Processing -- Unified Modelling Language (UML) Version 1.4.2
- 2. Project Proposal document, 24 July 2015.
- 3. User Requirement Document version 2.0 of 22-08-2015, author Susanna Zanatta.

- 4. Dynamic Web Application Development using PHP and MySQL, Chapter 2, Simon Stobart and David Parsons, Cengage Learning 2008.
- 5. Requirements Analysis and System Design, 2nd ed., Chapter 1, Addison Wesley and Harlow England, Maciaszek, L.A. 2005.

1.5 Overview of the document

This document is structured according to the industry standards.

The first section of the present document gives a brief overview of the project and includes references and definitions. The second section explains the methodology and analyses the use cases. The third section of the document gives an overview of the look and feel of the application and shows the class diagram. For references, definitions and acronyms please refer to Section 1.

2 General Description

2.1 Use case diagram

Arrakis – Spice Emporium is an E-commerce website targeted to high-end general public and hospitality professionals mostly from fine dining. The product range mainly includes spices and other fine culinary ingredients.

The following diagram shows the main use cases for the web application.

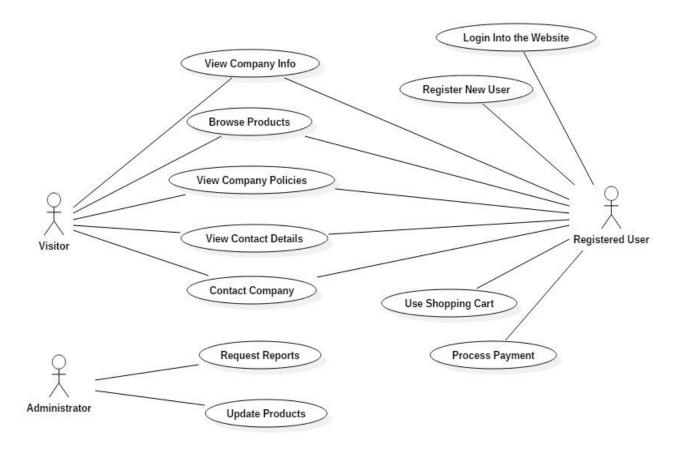


Figure 1 Use case diagram showing the actors interacting with the system and the main use cases.

2.2 Methodology

The design and development of the application follows an iterative and incremental process based on Agile/Scrum approach and evolutionary prototyping. The application development uses Unified Modelling Language (UML) for modelling.

The implementation of the website is test driven and it is based on 6 iterations, details of each iteration phase are covered in the following page.

The following diagram illustrates the flow of evolutionary prototyping applied to the project development phases.

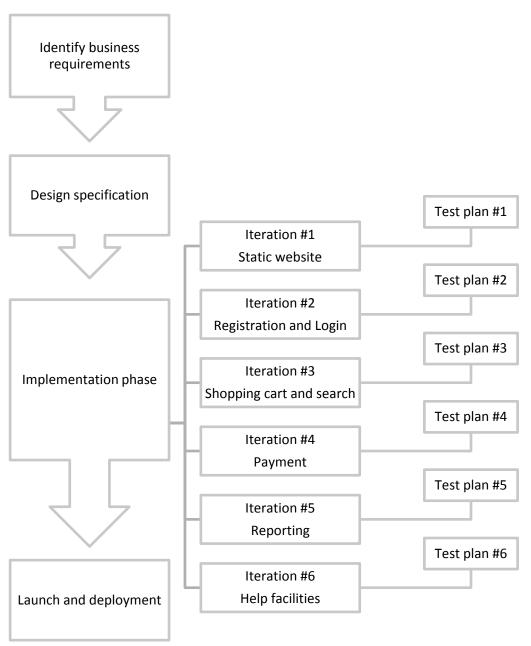


Figure 2 Methodology adopted for the design and development of the system

Implementation phase iterations

Each iteration phase includes a test plan that the application must pass in order to satisfy the user requirements. All iteration will be conducted with under the assistance of Swaminathan Ekambareshwar, Helen Palombo and Paul Payne.

Iterations will be conducted as follows:

- Iteration #1
 - Static web pages and navigation. Iteration duration: one week.
- Iteration #2

User and admin login, new user registration and mailing list with subscription to newsletter. Iteration duration: two weeks.

- Iteration #3
 - Shopping cart and search functionality. Iteration duration: two weeks.
- Iteration #4
 - Payment processing. Iteration duration: two weeks.
- Iteration #5
 - Amin reporting facilities. Iteration duration: one week.
- Iteration #6
 - Help facilities. Iteration duration: one week.

2.3 Website design lifecycle

The design and development phases of the web application will follow the software development lifecycle as represented in the diagram below.

Due the nature of the project, maintenance will not be performed.

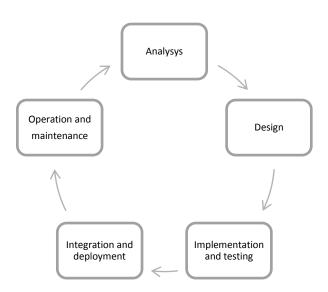


Figure 3 Website lifecycle

Use case descriptions

UC-1. Register New User

Actors: Registered user

Use Case Description:

To register a new user and obtain login details.

UC-2. Login into the website

Actors: Registered User

Use Case Description:

To sign in and have access to the full application functionalities.

UC-3. View company info

Actors: Visitor / Registered User

Use Case Description:

To visit the "About" page and view company history and details.

UC-4. Browse products

Actors: Visitor / Registered User

Use Case Description:

To browse the products listed in the website and view product details.

UC-5. Use shopping Cart

Actors: Registered User

Use Case Description:

To select and purchase products.

UC-6. Process payment

Actors: Registered User

Use Case Description:

To pay for the selected products and obtain an invoice.

UC-7. View company policy

Actors: Visitor, Registered User

Use Case Description:

To visit policy page and terms and condition page.

UC-8. View company details

Actors: Visitor / Registered user

Use Case Description:

To visit the contact page and view company details.

UC-9. Contact Company

Actors: Visitor / Registered User

Use Case Description:

To send an enquiry to the company by using a contact form.

UC-10. Update products
Actors: Administrator
Use Case Description:

To update categories and product listings.

UC-11. Request reports Actors: Administrator Use Case Description:

To obtain reports from the database.

User Characteristics

The actors interacting with the system are: visitor, registered user and administrator.

Visitor

A visitor is a non-registered user. Visitors will be able to visit the website and view the content. Visitors can view company info, company policies, browse through product categories, view product details. Visitors are also able to view company details and enquiry using the contact form provided.

Registered user

A registered user is a user that has registered and therefore can access the entire site content after logging in. Registered users can perform all operations available to visitors. Registered users can also use the shopping cart and the wish-list functionalities, purchase products, view and edit their account details and view order history. Registered user can have a private or a professional account.

A new user registering the website is considered a registered user.

Administrator

The administrator is a user that has full access to the back-end functionalities. An administrator can update product details, request reports and view orders.

2.4 Sequence diagrams

The following diagrams show the interaction between the user and the interface (boundary class). The use cases where the user interaction is limited to visiting a web page are not represented (ex. view company info). For clarity reasons, more articulated use cases have been broken into sub-use cases.

UC-1 - REGISTER NEW USER

START PAGE: REGISTRATION PAGE

ACTOR: REGISTERED USER (a visitor at the moment of registration is considered as registered user)

In order to access the full website functionalities, users must be registered and logged in. All mandatory fields must be properly filled in for the registration to be successful. If the user is already registered the system displays a message to notify the user.

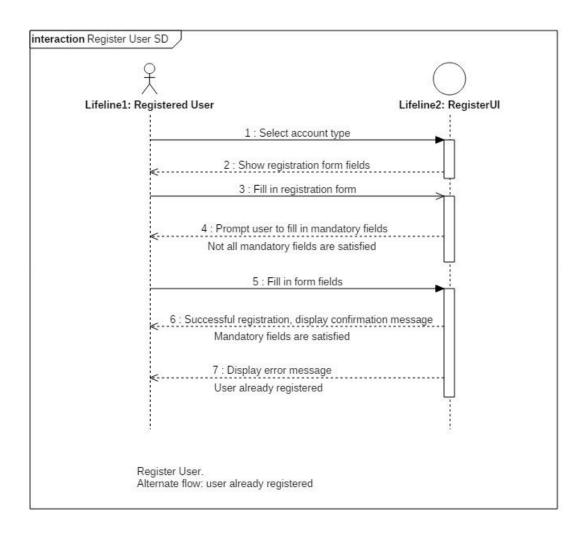


Figure 4 Sequence diagram for UC-1: register new user

UC-2 - LOG INTO THE WEBSITE

START PAGE: LOGIN PAGE ACTOR: REGISTERED USER

In order to access the full website functionalities and to purchase products, the user must be logged in. If the user types in the wrong login details for more than 5 times the system locks the account and the user must contact the administrator in order to unlock it.

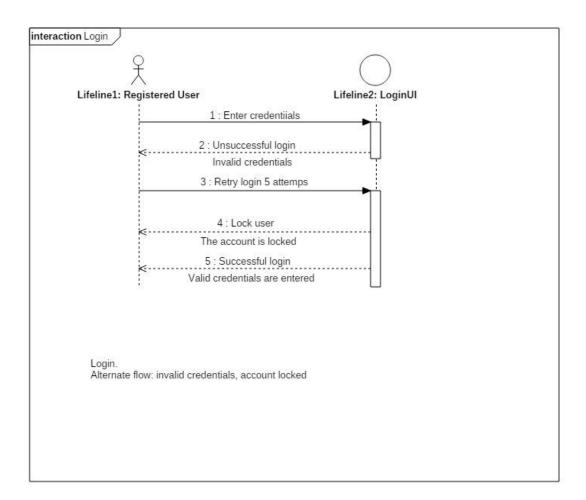


Figure 5 Sequence diagram for the UC-2: log into the website

UC-4.1 – BROWSE PRODUCTS

START PAGE: HOME PAGE

ACTOR: VISITOR

All users are able to browse through products. From the homepage menu, when a user selects a product category, the system displays the products within the same category. When a user selects a particular product, the system displays the product details page.

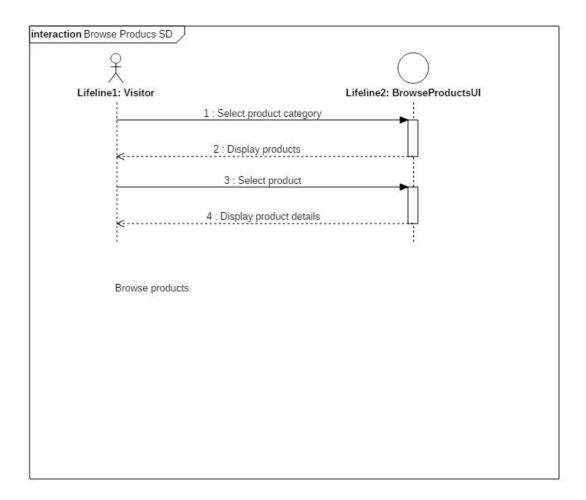


Figure 6 Sequence diagram for the UC-4.1: browse products

UC-4.2 – BROWSE PRODUCTS > SEARCH PRODUCTS

START PAGE: HOME PAGE

ACTOR: VISITOR

All users are able to search for a particular product. When the user enters the keywords in the search field the system displays all the results associated with the search. If no results are produced, the system displays a message.

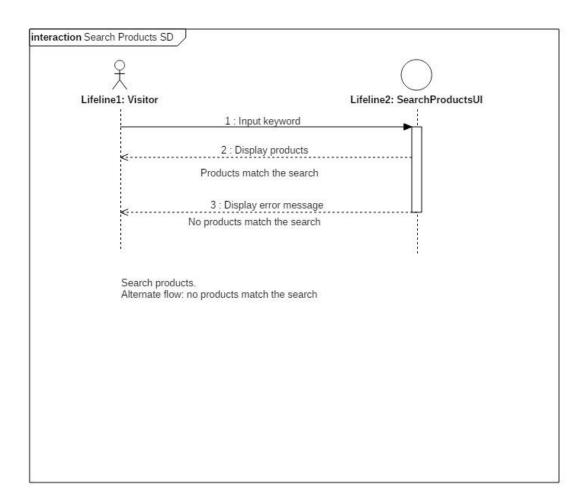


Figure 7 Sequence diagram for UC-4.2: search products

UC-5.1 – USE SHOPPING CART > ADD PRODUCT TO CART

START PAGE: PRODUCT PAGE ACTOR: REGISTERED USER

When a user clicks on the *Add to cart* button, the product is added to the shopping cart. If a user is not logged in, the system will prompt the user to log in in order to add the product to cart. A product that is out of stock cannot be added to the shopping cart. A quantity must be specified in order to add a product to the shopping cart.

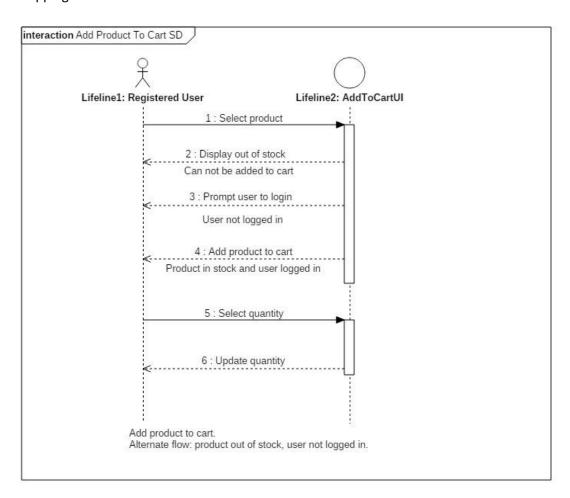


Figure 8 Sequence diagram for UC-5.1; add product to carr

UC-5.2 - USE SHOPPING CART > EDIT CART

START PAGE: ANY

ACTOR: REGISTERED USER

Registered users can view and edit the shopping cart content by selecting the *Cart* button. Users can edit quantities and delete products from cart. The user can also save the shopping cart and resume the shopping session the in the future.

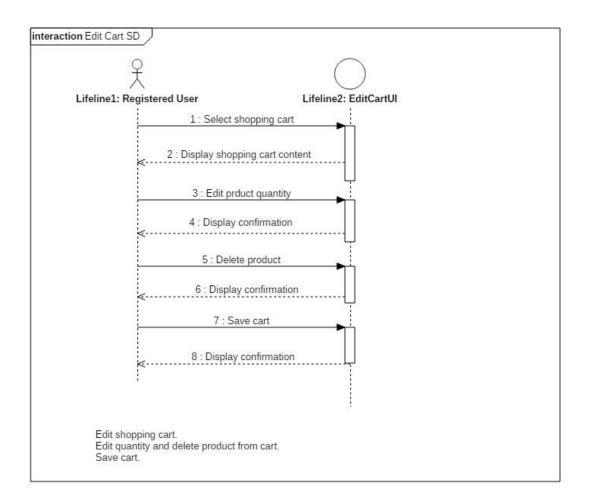


Figure 9 Sequence diagram for UC-5.2: edit cart

UC-6 – PROCESS PAYMENT

START PAGE: SHOPPING CART PAGE

ACTOR: REGISTERED USER

When a user confirms the order form the shopping cart page the systems loads the payment page. The user is required to fill in all mandatory form fields related to billing and shipping information. After details are entered and confirmed, the system loads the payment details page. When the user enters details and confirms, the system displays a last order summary. This is the last confirmation that is required before payment is processed. When the user confirms, the system validates the payment and if successful displays confirmation and generates invoice.

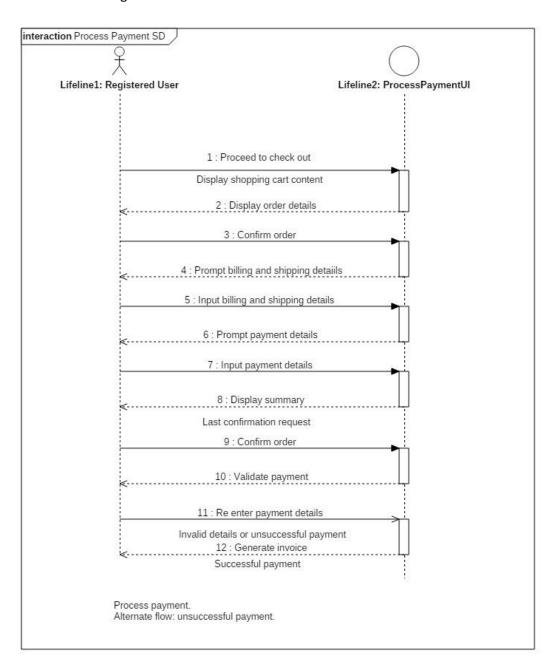


Figure 10 Sequence diagram for UC-6: process paymen

UC-9 – CONTACT COMPANY

START PAGE: CONTACT PAGE

ACTOR: VISITOR

All users can contact the company by using the contact form in the contact page. When a user fills in the form and hits *Send*, a message is sent to the company. All mandatory fields must be completed.

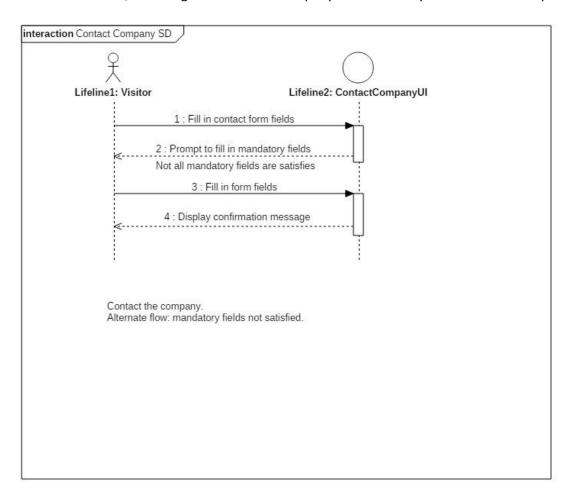


Figure 11 Sequence diagram for UC-9: contact company

UC-10 – UPDATE PRODUCTS

START PAGE: ANY ACTOR: ADMIN

When a user with admin privileges logs in, the system loads in the admin area. Admin users can edit product categories and products listings. Every time an update is made the system displays a confirmation message.

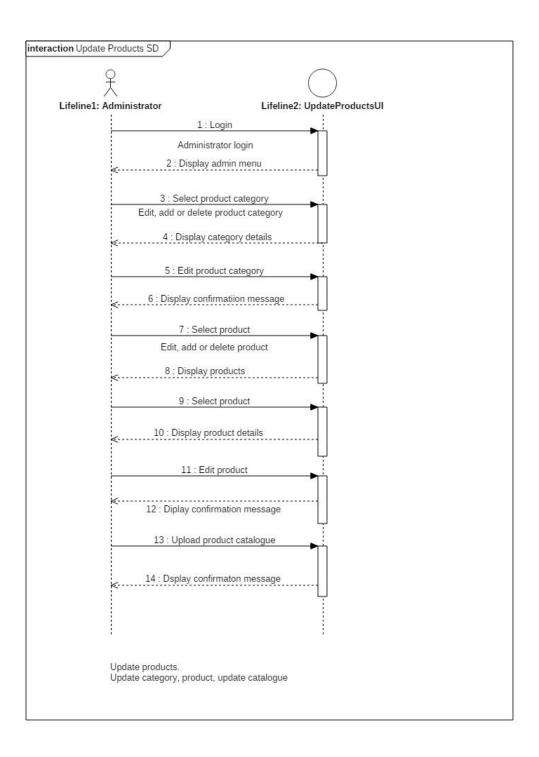


Figure 12 Sequence diagram for UC-10: update products

UC-11 – REQUEST REPORTS

START PAGE: ANY ACTOR: ADMIN

When a user with admin privileges logs in, the system loads in the admin area. Admin users can select the reporting facility and chose the filters to be applied to the results. A report is generated by the system.

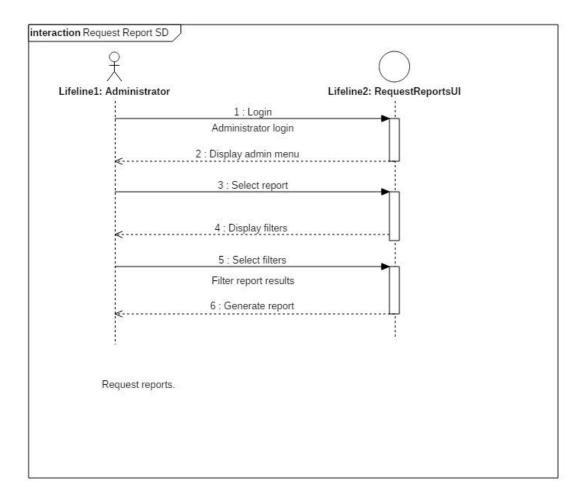


Figure 13 Sequence diagram for UC-11: request reports

3 Application feature design

3.1 Navigation diagram

All main pages must be reachable from the top menu and/or footer areas. All of them must be available at any time during the navigation and reachable within 4 clicks.

Top menu: About (view company info), Shop (browse products), Contact (view company details and contact company), Register, Login, Shopping cart.

Footer: Policies (privacy policy and terms and conditions), FAQ (Help facilities).

A breadcrumb must also be included to provide a reference point to the user during the exploration of the website.

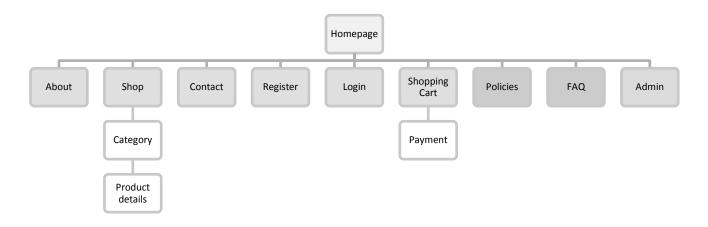


Figure 14 Navigation diagram

3.2 Class diagram

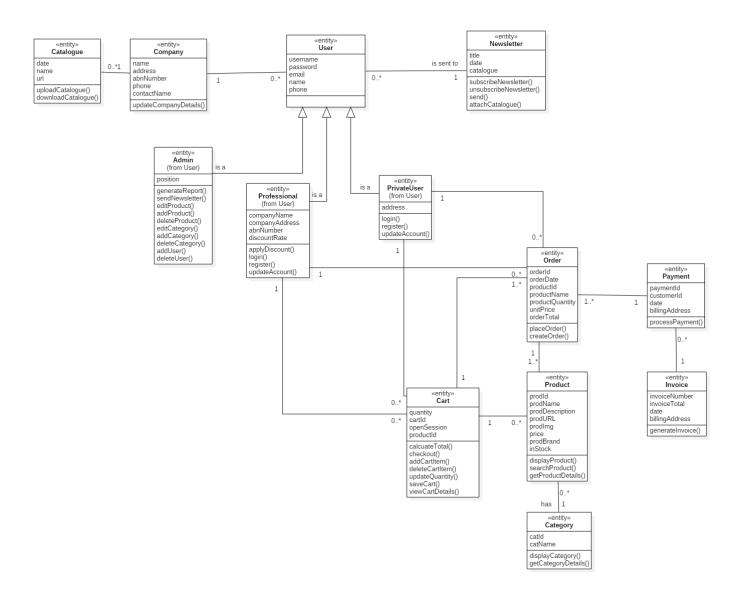


Figure 15 Class diagram

3.3 Main screen

The GUI of the application will be implemented according to the following wireframes, for the main pages a medium-fidelity colour mockup is also included.

The proposed colour scheme for the web application is represented in the image below. The colour palette can be subject to change during the design phase according to product images and accessibility issues.



Main menu

The following mockup represents the main navigation along with a dropdown menu functionality that will be applied to all pages. The Arrakis logo in the nav bar must point to the homepage.



Figure 16 Drop down menu

3.3.1 Home page

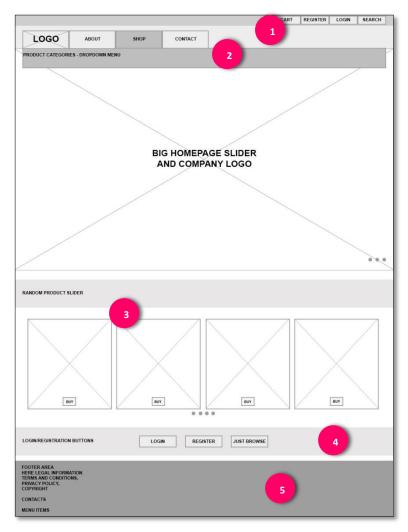


Figure 17 Homepage wireframe

- 1. Menu extras: shopping cart, login and registration.
- 2. Dropdown menu showing product categories.
- 3. Product slider.
- 4. Alert the user that login is necessary for purchasing products and link to registration, login and product pages.
- Footer linking to legal pages,FAQs and main navigation menu.



3.3.2 Registration page

This page allows new users to register. Users can choose between a private and a professional account. If a professional account is requested, the system will require further details to prove that the user is an industry professional. When registering, users must be able to opt-in the newsletter subscription and view Privacy Policy.

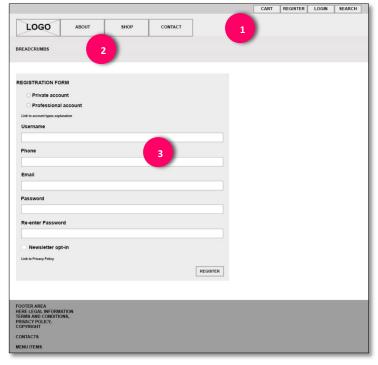
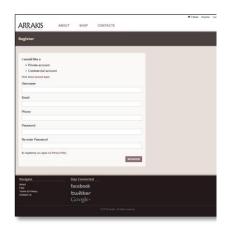


Figure 18 Registration page wireframe

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.
- 3. Registration form. Extra fields appear if user selects commercial account.



3.3.3 Login page

Users can sign in using their credentials and use all functionalities once logged in.



Figure 19 Login page wireframe

Legend

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.
- 3. Login form.



3.3.4 About page

This page displays details of the company structure and company history.

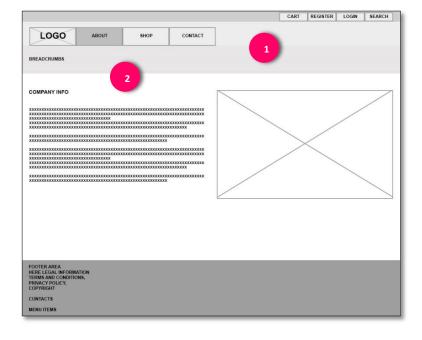


Figure 20 About page wireframe

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.

3.3.5 Product page

Products are displayed within the products page and grouped into different categories. When a product category is selected, the system displays all the products that are included in the category. The user will then be able to browse through the products and view their details by selecting them.

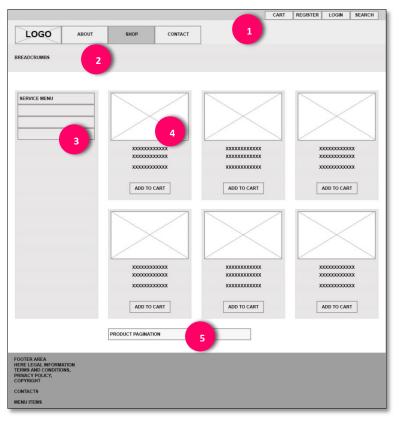


Figure 21 Product page wireframe

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.
- 3. Service menu and search field.
- 4. Product.
- 5. Pagination bar.



3.3.6 Product details

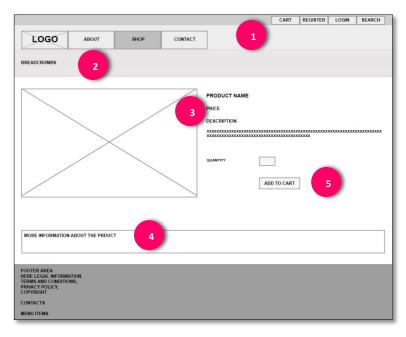
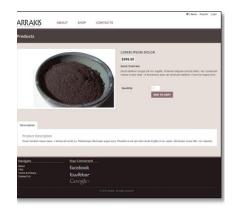


Figure 22 Product details page wireframe

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.
- 3. Product image and details.
- 4. More product details if needed.
- 5. *Add to cart* button.



3.3.7 Shopping cart

Registered users will be able to access the shopping cart at any time and view its content. Users will be able to edit the cart, delete products from the cart or save the cart for later use. The shopping cart will also allow users to continue shopping or proceed to the order confirmation and payment page. This page and its functionalities will only be accessible to logged in registered users.

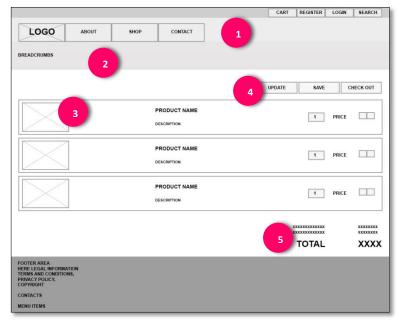
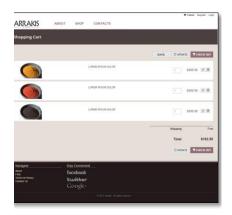


Figure 23 Shopping cart wireframe

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.
- 3. Item image, description, quantity and price and edit button.
- 4. *Update cart, save cart, check out* buttons.
- 5. Total.



3.3.8 Policies page

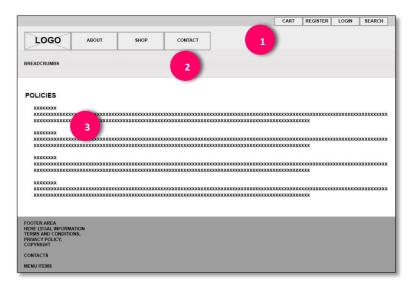


Figure 24 Policy page wireframe

Legend

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.
- 3. Company policy.

3.3.9 FAQs

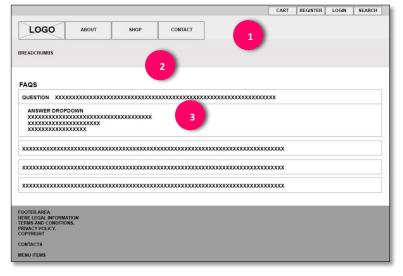


Figure 25 FAQs page wireframe

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.
- 3.FAQ question with dropdown answer.

3.3.10 Contact

This page displays company contact details and features a contact form from which users will be able to send enquiries.

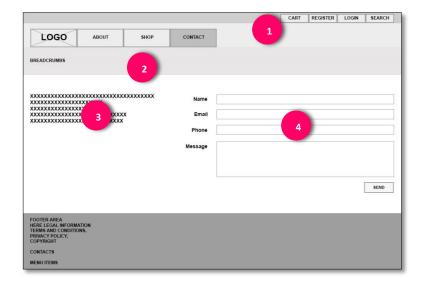


Figure 26 Contact page wireframe

- 1. Navigation and footer same as homepage.
- 2. Breadcrumbs.
- 3. Company contact details.
- 4. Contact form.

3.3.11 Admin area

This page is available to users with administrator permission after login. The administrator interface allows the user to query the database in order to generate reports, add/delete products, edit product listings, and add/delete categories.

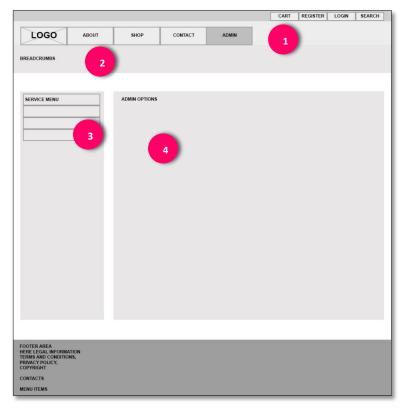


Figure 27 Admin area wireframe

- 1. Navigation shows extra items when the admin is logged in.
- 2. Breadcrumbs.
- 3. Service menu.
- 4. Admin section.

3.4 Storyboard

Register new user

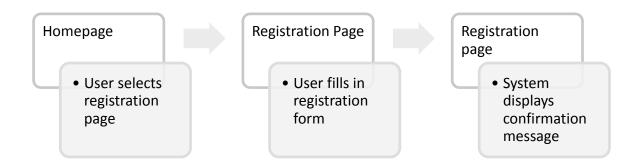


Figure 28 Storyboard for Register New User

Alternate flow:

- Not all mandatory fields are completed \rightarrow the system is unable to process the registration and prompts the user to fill in mandatory fields.
- View privacy policy \rightarrow The user clicks on the link to the policy page that is made available in the registration form and the page opens in a new tab.
- The user is already registered →The system displays an error message.

Login Page

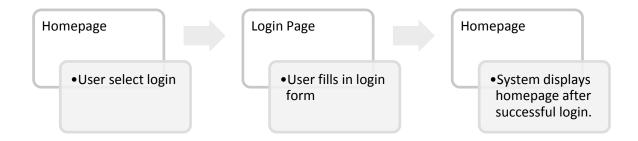


Figure 29 Storyboard for Login into the Website

Alternate flow:

- The user enters wrong credentials → The system prompts the user to re-enter credentials.
- 5 failed login attempts → The system locks the user account and displays message.

Browse products

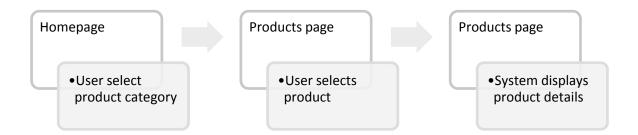


Figure 30 Storyboard for Browse products

Alternate flow:

- The user performs a search \rightarrow The system displays products that match the search.
- No products match the search \rightarrow The system displays message.

Add product to shopping cart

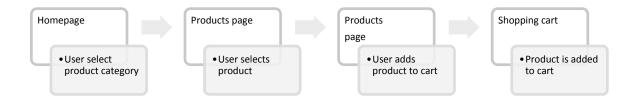


Figure 31 Storyboard for Add Product to Shopping Cart

Alternate flow:

Product out of stock \rightarrow The system does not allow the user to add product to cart.

No quantity selected \rightarrow The minimum quantity is added by default.

Edit shopping cart



Figure 32 Storyboard for Edit Shopping Cart

Process payment

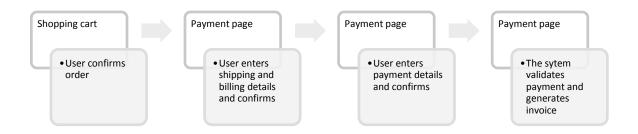


Figure 33 Storyboard for process payment

Alternate flow:

- Mandatory fields not completed \rightarrow The system does not process payment until all mandatory field are completed and prompts the user to do so.
- View terms and conditions \rightarrow The user clicks on the link to the policy page that is made available upon order confirmation and the page opens in a new tab.
- Payment unsuccessful →The system displays message and prompts the user to re-enter payment details.

Contact Company

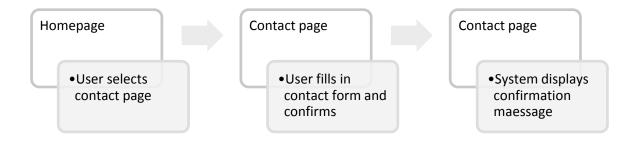


Figure 34 Storyboard for Contact Company

Alternate flow:

- Mandatory fields not completed or invalid details \rightarrow The system does not process payment until all mandatory field are completed and prompts the user to fill in required fields.

4 Traceability matrix

The following table shows the requirements as part of use cases. The same unique ID number identifies the requirement and the use case number can be referenced at page 8 of the present document.

UR-ID	Requirement description	Use Case	Use Case Step	Comments
URD - 01.01	A new user shall obtain login details when creating an account.	UC - 1	3	A customer should receive confirmation when the account is created.
URD - 01.02	A new user shall select the account type (private or commercial) at registration.	UC - 1	1	Customer selects account type.
URD - 01.03	Name, username, email and phone number must be compulsory fields for private accounts.	UC - 1	2	Mandatory fields for registering private accounts.
URD - 01.04	Name, username, email, phone number, ABN Number, Company Name and Company address must be compulsory fields for commercial accounts.	UC - 1	2	Mandatory fields for registering commercial accounts.
URD - 01.05	A user must be able to opt in the newsletter at registration.	UC - 1	2	Customer can opt in the newsletter at registration.
URD - 01.06	A user must agree company privacy policy when creating an account.	UC - 1	2	Customer agrees privacy policy at registration.
URD - 01.07	A user must be able to view the company privacy policy when creating an account.	UC - 1	2	Link to privacy policy is provided.
URD - 01.08	A user shall perform login to access full website content.	UC -2	1	Customer enters email and password and selects login.
URD - 01.09	A user shall login using their email address and password.	UC -2	1	Customer enters email and password and selects login.
URD - 01.10	The password must contain letters, number and symbols.	UC -2	1	Customer enters email and password and selects login.
URD - 01.11	The password must contain at least 1 number.	UC -2	1	Customer enters email and password and selects login.
URD - 01.12	The password must not contain more than 2 consecutive identical characters.	UC -2	1	Customer enters email and password and selects login.
URD - 01.13	The password must be 6 or more character long.	UC -2	1	Customer enters email and password and selects login.
URD - 01.14	More than 5 consecutive failed logon attempts will lock out the account and display a message to contact the administrator.	UC -2	2	Login locked out after 5 attempts.

		1	Ta	T
URD - 01.15	A user must be able to change password.	UC -2	2	Unlimited password changes allowed.
URD - 01.16	A user must be able to edit account	UC -2	2	Customer updates details
01120	details.	00 2	_	and preferences.
URD - 01.17	A user must be able to edit	UC -2	2	Customer updates details
	newsletter opt in preferences.			and preferences.
URD - 01.18	A user with administrator login	UC -2	1	Admin login from the
	must be able to access the admin			homepage.
	area of the website from the			
	homepage.			
URD - 02.01	A user shall be able to obtain	UC -3	1	Customers and visitors
	information about the company.			obtain information about
				the company
URD - 02.02	A user must be able to reach the	UC -3	1	Customers and visitors
	about page from the homepage.			obtain information about
			_	the company
URD - 03.01	A user must be able to find the	UC -4	1	SEO friendly
	website in search engines.		 	1000
URD - 03.02	A user must be able to browse	UC -4	1	Visitors and customers
	through products.		_	view products
URD - 03.03	A user shall be able to select a	UC -4	2	Visitors and customers
	product category and browse			view products
URD - 03.04	through its content. A user shall be able to select a	UC -4	3	Visitors and customers
UKD - 03.04	particular product and display	00 -4	3	view products
	information about the same			view products
	product.			
URD - 03.05	A user must be able to view product	UC -4	3	Visitors and customers
	name, price and description and			view products
	product image of a product.			·
URD - 03.06	Product description must contain	UC -4	3	Visitors and customers
	product image.			view products
URD - 03.07	Product description must display	UC -4	3	Visitors and customers
	price.			view products
URD - 03.08	Product details must include	UC -4	3	Visitors and customers
	product availability.			view products
URD - 03.09	A user must be able to perform a	UC -4	1	Visitors and customers
	search to find a particular product.			view products
URD - 03.10	A user should be able to save	UC -4	4	Customers can use wish list
	products into a wish list.			
URD - 03.11	A user should be able to save out of	UC -4	4	Customers can use wish list
	stock products into a wish list.			
URD - 03.12	A user should be notified when out	UC -4	5	Customers can use wish list
	of stock products added to the wish			
	list become available.			
URD - 03.13	A user should be able to view wish	UC -4	4	Customers can use wish list
	list content.			
URD - 03.14	A user should be able to add to cart	UC -4	5	Customers can use wish list
	products from the wish list.			

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URD - 03.15	A user should be able to delete products from the wish list.	UC -4	4	Customers can use wish list
URD - 04.01	A user must be able to add products to a virtual shopping cart for purchase.	UC -5	1	Customer adds product to cart for purchase
URD - 04.02	A user must select product quantity in order to add product to the shopping cart.	UC -5	1	Customer adds product to cart for purchase
URD - 04.03	The system must prevent users from adding non-available products to cart.	UC -5	1	Customer adds product to cart for purchase
URD - 04.04	A user must be able to view the content of the shopping cart.	UC -5	2	Customer views shopping cart content
URD - 04.05	A user must be able to edit the quantity of items added to the shopping cart.	UC -5	3	Customer edits shopping cart content
URD - 04.06	A user must be able to delete items from the shopping cart.	UC -5	3	Customer edits shopping cart content
URD - 04.07	A user must be able to save cart for later use.	UC -5	4	Customer saves shopping cart
URD - 04.08	A user must be able to view shipping cost.	UC -5	2	Customer views shopping cart content
URD - 04.09	GST must be separately calculated.	UC -5	2	Customer views shopping cart content
URD - 04.10	A user should obtain free shipping for large orders	UC -5	2	Customer views shopping cart content
URD - 04.11	A user must be able to continue shopping from shopping cart page.	UC -5	2	Customer views shopping cart content
URD - 04.12	A user must confirm shopping cart content in order to proceed to payment.	UC -5	4	Customer proceeds to payment
URD - 04.13	A user must be able to view order history.	UC -5	5	Customer views order history
URD - 04.14	A user with commercial account must have a discount on the total of the order.	UC -5	4	Customer proceeds to payment
URD - 04.15	A user with private account should be able to generate gift vouchers.	UC -5	1	Customer adds product to cart for purchase
URD - 04.16	A commercial user must not be able to purchase gift vouchers at a discounted rate.	UC -5	1	Customer adds product to cart for purchase
URD - 05.01	The system shall prevent users from accidental purchases.	UC -6	1	Customer confirms purchase
URD - 05.02	A user shall be able to check order details before payment confirmation.	UC -6	1	Customer confirms purchase
URD - 05.03	A user must agree company policies in order to proceed with payment.	UC -6	2	Customer agrees terms and conditions

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URD - 05.04	A user must be able to view company policies at terms and	UC -6	2	Customer agrees terms and conditions
	conditions acceptance.			
URD - 05.05	Terms and conditions page must open in a new page.	UC -6	2	Link to terms and conditions is provided
URD - 05.06	A user shall input invoicing and shipping details in order to proceed with payment.	UC -6	3	Customer enters details and confirms payment
URD - 05.07	Mandatory fields must be satisfied in order to proceed with payment.	UC -6	3	Customer enters details and confirms payment
URD - 05.08	Payment method must be secured.	UC -6	4	System processes payment
URD - 05.09	The system must process payments via PayPal.	UC -6	4	System processes payment
URD - 06.01	A user shall be able to view company's return and refund policy.	UC -7	1	Visitors and customers view policies
URD - 06.02	A user shall be able to view company's privacy policy.	UC -7	1	Visitors and customers view policies
URD - 07.01	A user shall be able to view company's contact details.	UC -8	1	Visitors and customers view company details
URD - 07.02	A user must be able to view a list of Frequently Asked Questions for help.	UC -8	1	Visitors and customers view FAQ
URD - 07.03	A user shall be able to send enquiries to the company by using a form.	UC -9	1	Visitors and customers fill in contact form and send enquiry
URD - 07.03	Name and email must be mandatory fields in the contact form.	UC -9	1	Visitors and customers fill in contact form and send enquiry
URD - 08.01	Admin user must be able to update product listings.	UC -10	1	Administrator updates products
URD - 08.02	Admin user must be able to edit prices.	UC -10	1	Administrator updates products
URD - 08.03	Admin user must be able to add a product category.	UC -10	1	Administrator updates products
URD - 08.04	Admin user must be able to remove a product category.	UC -10	1	Administrator updates products
URD - 08.05	Admin user must be able to add a new product.	UC -10	1	Administrator updates products
URD - 08.06	Admin user must be able to remove a product.	UC -10	1	Administrator updates products
URD - 08.07	Admin user must be able to upload a product catalogue.	UC -10	1	Administrator updates products
URD - 08.08	Admin user must be able to generate reports.	UC -11	1	Administrator requests report
URD - 08.09	Admin user must be able to display a list of all open orders.	UC -11	1	Administrator requests report

URD - 08.10	Admin user must be able to display details for each order.	UC -11	1	Administrator requests report
URD - 08.11	Admin user must be able to view customer details.	UC -11	1	Administrator requests report
URD - 08.12	Admin user must be able to add/delete user accounts.	UC -11	2	Manages accounts
URD - 08.13	Admin user must be able to view customer wish list items.	UC -11	1	Administrator requests report