**Software Design Specification**

**for**

Abella Scent’z Web Application

Version 1.0

Prepared by

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Revisions

| Version | Primary Author(s) | Description of Version | Date Completed |
| --- | --- | --- | --- |
|  |  |  |  |

# Introduction

## Purpose

The purpose of this SDS is to present the product plan for Abella Scent’z Web Application. It will provide the high-level overview of the architecture and low-level structure for our web application. The SDS will be heavily affected by the design of the overall web application which features, functionality, imperatives, and the interfaces of the framework.

## System Overview

Diagram

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Figure 1: System Architecture of Abella Scent'z Web Application

Our client, Abella Scent’z requires a system whereby they can manage and receive any order for their product online. As per request from the Abella Scent’z management, our team decided to develop a system where an online web app is to be proposed and designed to fulfil their request and desire where Abella Scent’z Web App is. This system will have a goal to help Abella Scent’z with their daily sales and marketing, with hope to elevate their sales to another level. Customer’s order will be sorted in a more orderly manner compared to the old method of sales through a medium like WhatsApp and TikTok. With the web application system, the customer would be able to access all the Abella Scent’z products with their details which includes the price and description of the product, making it easier for the customers to decide what they want in a product. This web application would also help Abella Scent’z to move to the more conventional of business now, thereby creating an official e-commerce website for the company.

The Abella Scent’z Web Application is accessible to customers via devices such as laptops, computers or even their mobile phone if there is a usable web browser and stable internet connection. The web application contains numerous products by Abella Scent’z whereby they can choose from the catalogue, place an order, input their personal information for the necessary billing information, select delivery option offered and proceed to the required payment using the supported online payment gateway such as Online Banking FPX. For the management side, the Abella Scent’z committee will be able to see the order through the system whereby the administrator can use the system in a way to manage product, view orders and view payment as well to check whether the customer has proceeded to pay to proceed with their order.

## Definitions, Acronyms and Abbreviations

**Definitions**

|  |  |
| --- | --- |
| · Selling team | - Comprise of agents, dropship agents and stockist |
| · Dropship | - People who act as our client’s marketers, promote, and sell their products on their behalf but do not keep any stock. |
| · Stockist | - A retailer who keeps stocks of our client’s products. |

**Acronyms and Abbreviations**

|  |  |
| --- | --- |
| · CSS | - Cascading Style Sheets |
| · HTML | - Hypertext Mark-up Language |
| · IEEE | - Institute of Electrical and Electronic Engineers |
| · PHP | - Hypertext Pre-processor |
| · SRS | - Software Requirements Specifications |
| · UI | - User Interface |
| · XAMPP | - Cross-platform, Apache, MySQL, PHP, and Perl |

## Supporting Materials

Editor. (2019, September 18). Web Application Architecture: How the Web Works. AltexSoft. https://www.altexsoft.com/blog/engineering/web-application-architecture-how-the-web-works/

Mirenda, P., Dr. (2006, March 17). Software Design Specification Document. Retrieved January 12, 2021, from<https://lostclouds.com/2Communicate/project/SDS.pdf>

## Document Overview

This document has 5 sections including the introduction. The next section of the document provides the architectural design of the Abella Scent’z Web Application. It shows the overview of the web application such as the user interface for the system and the services that it provides. In section three, which is the high-level design, it further describes the web application in more detail by illustrating the dynamic behaviour of the web application. In section four, which is the low-level design, it describes the components from the high-level design as modules. It shows the specifications of the module along with the interface specifications. Finally, the final section shows the appendix of the document.

# Architecture

This section provides a high-level overview of the structural and functional decomposition. The architecture provides a top-level design view of a system and provides a basis for more detailed design work. Most web applications are developed by separating its main functions into layers, or tiers. Therefore, Abella Scent’z Web Application can be architecturally divided into three tiers:

* Interface layer
* Application layer
* Data access layer

The interface layer is accessible to users via a browser and consists of user interface components and UI process components that support interaction with the application. It is developed using core technologies which are HTML, CSS, JavaScript and PHP. The logic and rules for data storage in the data access layer will be related to the application layer since it will store the data based on the user inputs and how they interact with it. This is the layer whereby it will be accessible to manage the data files and databases.

Diagram

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Figure 2: High-level Component Diagram of Abella Scent’z Web Application System

The workflows by which the data and requests travel through the back end are encoded in a business layer. Section 2.2 explains the components in detail where it should work in the system. Next section includes the description of the components of the system.

## Overview

The components of the system are:

* Customer
* Staff
* Administrator
* Main Page
* Order
* Payment
* Report Summary
* Dashboard
* Login
* Logout

## Component 1..n

### Customer

Customer UI (User interface) part represents the graphical interface for the customer’s use. It offers the graphical interface for any end-users. In the web application, the user can search the menu, pick an order, find information on the company, location of the company, and make payments when they want to purchase an order.

### Staff

Staff UI (User interface) will represent the graphical interface same as any other user-end does except there are a few things that may differ from what the basic users (customers) see. For instance, if an agent wants to restock a product, they can buy the products with cheaper prices as they will buy them in bulk.

### Administrator

Administrator UI (User interface) provides a graphical interface of an administrator which they can control how the business runs and how the application works. The framework offers a GUI (graphical user interface) that allows the administrator to monitor the sales, view current orders, and view dashboard.

### Main Page

The main page component is designed to allow users and customers to navigate to the main menu, view products, to view the company’s contacts, and even to make payments. A well-designed main page will also attract customers where it will be much easier for them to navigate through the web application.

### Order

The order feature is programmed to allow the customer to place the requested products in the shopping cart. They will also be able to remove any unwanted products or add products of their choice.

### Payment

Payment feature allows the staff and the customers to make a transaction. When they are ready to proceed to the checkout, they will need to insert their details such as name, address, email and phone numbers. Once they have made the purchase, the web application will notify the administrator regarding the orders have been made.

### Report Summary

Report summary feature is formed to ensure admin to display the orders have been made, the number of user logins, sales by dates, and even the performance of the staff. Administrators can generate a report based on any dates which they want to view. In the database, the sales data and customer accounts are collected, and the program must modify data to form the appropriate information.

### Dashboard

The dashboard feature is only accessible by the administrator of the web application. In the dashboard, administrators can view a graphical summary of any product sales, view staff details and performances, and even edit the system of the web application according to their likeness.

### Login

The login component is designed to allow administrators and admin to login into the application. As for the administrator, the login is required for them to use all the features that are made to change any settings for the web application such as adding an item in the catalogue or even edit any information regarding the company. As for the staff, login is required if they want to receive a discounted price when they buy products.

### Logout

The logout feature allows the web application users to terminate the session by logging out of the application.

### AbellaDB

AbellaDB database feature is a database which holds and stores all the metadata needed and required for the system to function well.

# High Level Design

The architecture that would be used for developing a software product is explained by high-level design (HLD). An overview of an entire system is provided in the architecture diagram, identifying the main components that would be developed for the product and their interfaces. Customer and Admin state charts are used to illustrate Abella Scent'z Web Application system's dynamic behaviour. Within the perspective of client and administrator entities, both state charts outline behaviour. The overall Abella Scent'z Web Application system through the corresponding entity is outlined in Figure 3 and Figure 4. The system is hosted on the Internet on a live server and can be publicly accessed using its web address.

![Diagram

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHN5ZWQAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzMQAAkpIAAgAAAAMzMQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 3: Customer state chart: overall view of Abella Scent’z Web Application system using state chart diagram through the customer entity.**

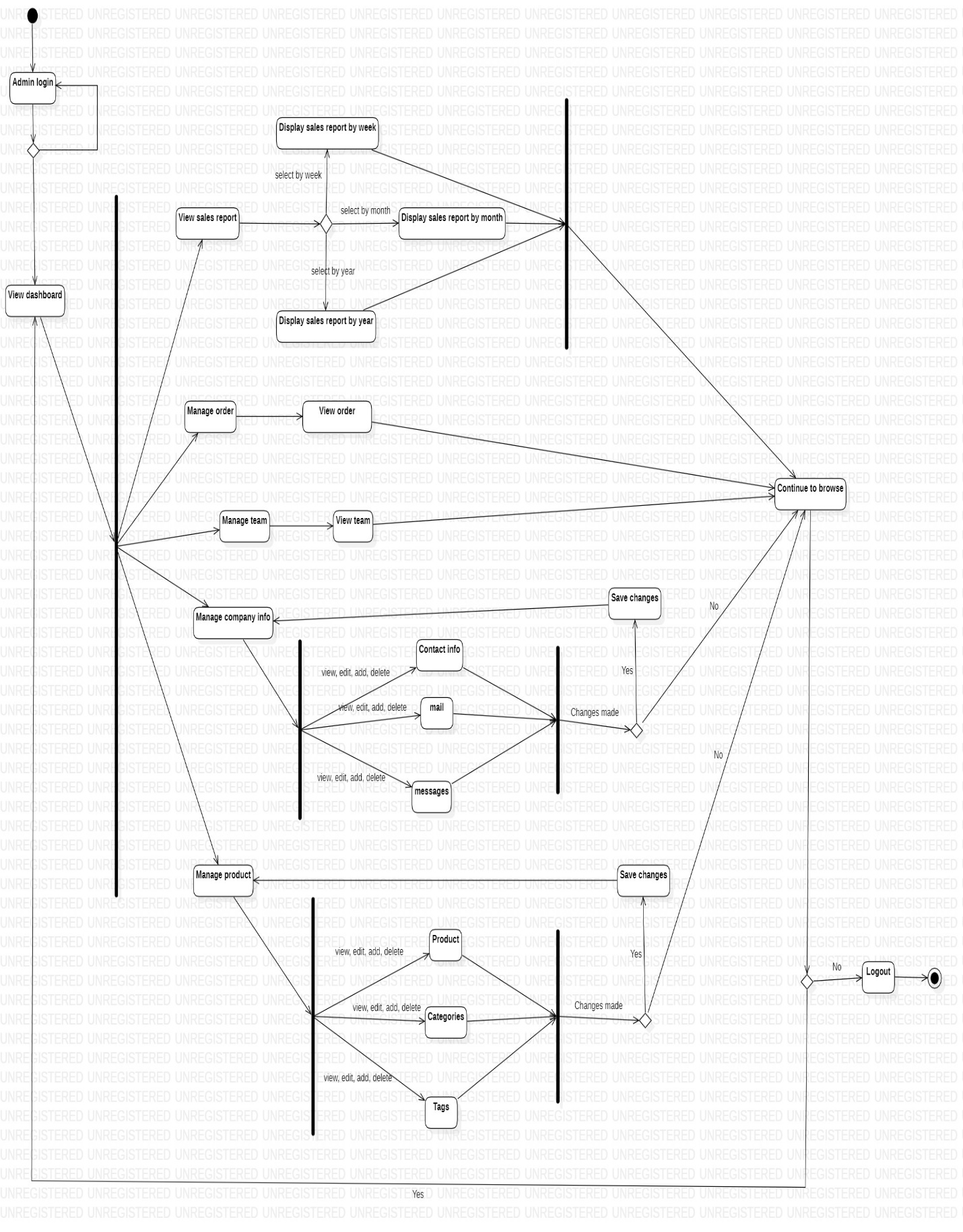
On the event of a user is able to enter the Abella Scent’z website (customer side), there are few events that can be triggered:

1. The user can browse through the menu and view the products sold. The user can add the product to their shopping cart if they wish to purchase it.

1. The user can view or update the shopping cart if a product is already in their shopping cart. The user can review product, remove product, or add a different product in the shopping cart.

1. If the user decides to purchase the product, the user can proceed to the checkout event.

On the event of the user is ready to checkout the shopping cart, the user will be required to fill in their billing details and payment details to proceed to the payment. If the payment is accepted by the administrator, the system will automatically issue an invoice and send an email notification for the product order. The user is able to print the order invoice. The product is considered purchased then the shopping cart is reset. The user is able to leave the website within any events except doing the payment.



**Figure 4: Admin state chart: overall view of Abella Scent’z Web Application system using state chart diagram through the administrator link.**

If the administrator has successfully landed on the Abella Scent'z Web Application admin tab, before moving to the admin dashboard, the administrator must log in first for verification. The admin will be guided to the dashboard page after signing in successfully. Little events can be triggered:

1. The administrator can view sales reports by weeks, months, or year.
2. The administrator can manage orders by viewing the customer order.
3. The administrator can manage the team by viewing team details.
4. The administrator can manage basic company info that appeared in the customer side website using CRUD operation.
5. Using CRUD operation, the administrator may handle items that appear on the customer-side website.

Any changes made will be saved to the database and changed to the dashboard page for activities that use CRUD operations. The device would successfully be terminated if the user signed out from the admin list.

## View / Model Component 1..n

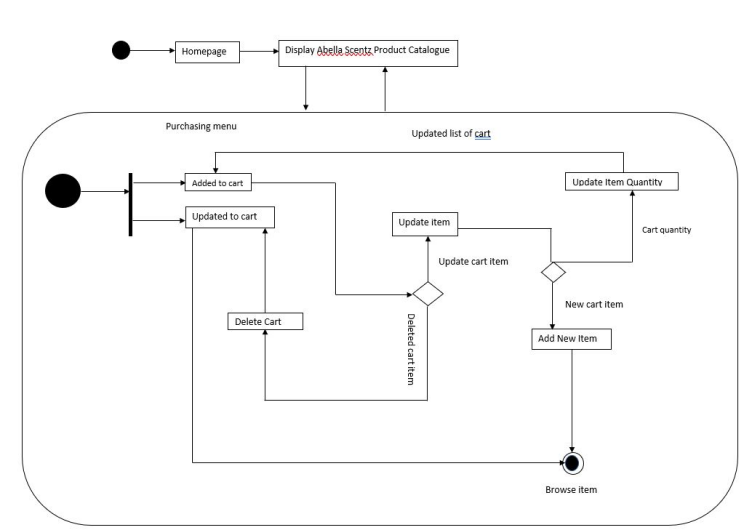


Figure 5: Order state chart model component

On the event of a user successfully landing to the Abella Scent’z web application (customer view), customers can choose from the catalogue. There are a few events that can be triggered:

1.      The customer can browse through the catalogue and view a particular item.

2.  The customer can add new items and update item quantities from their cart.

3.  The customer can delete items from their cart.

4.      The customer can proceed to payment.

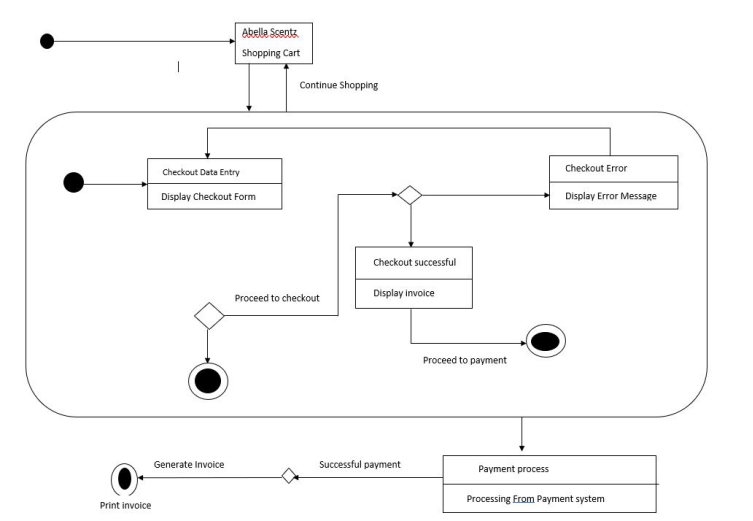


Figure 6: Checkout state chart model component

In the event of a user successfully landing to the Abella Scent’z website (customer side), then deciding to proceed to checkout, customers are to proceed to payment. These are few events that can be triggered:

1. The customer are to fill in the checkout form which consist of their billing details and payment information.

2.  Customer can proceed to payment.

3.  The website will display payment invoice to customer.

4.      Customers can print invoices.

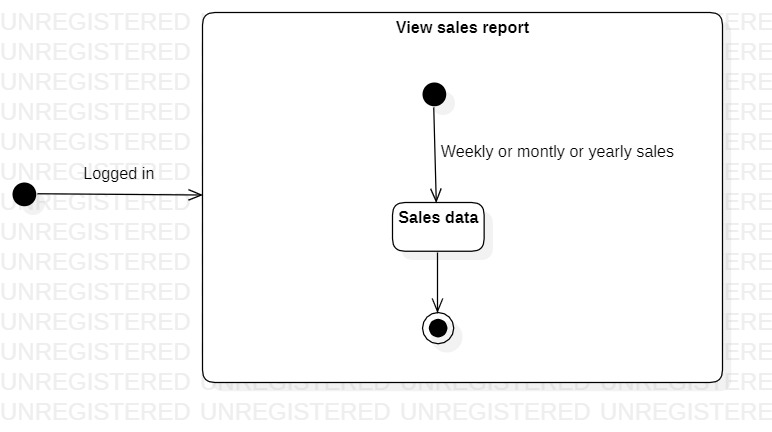


Figure 7: Sales report state chart model component

The administrator will access the dashboard in the event of a user successfully landing on the Abella Scent'z website (administrator view). Little events can be triggered:

1. The administrator can view weekly/monthly/yearly sales data.

Diagram

Description automatically generated

Figure 8: Order state chart model component

The administrator will access the dashboard in the event of a user successfully landing on the Abella Scent'z website (administrator view). Little events can be triggered:

1. The administrator can view order history.

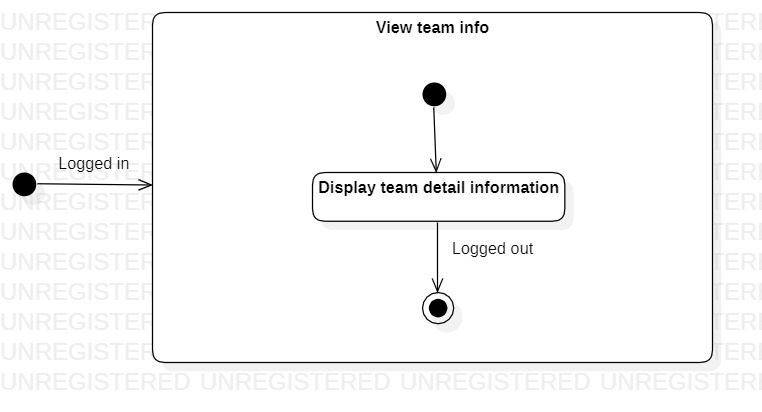


Figure 9: Team state chart model component

The administrator will access the dashboard in the event of a user successfully landing on the Abella Scent'z website (administrator view). Little events can be triggered:

1. The administrator can view detail teaminformation.

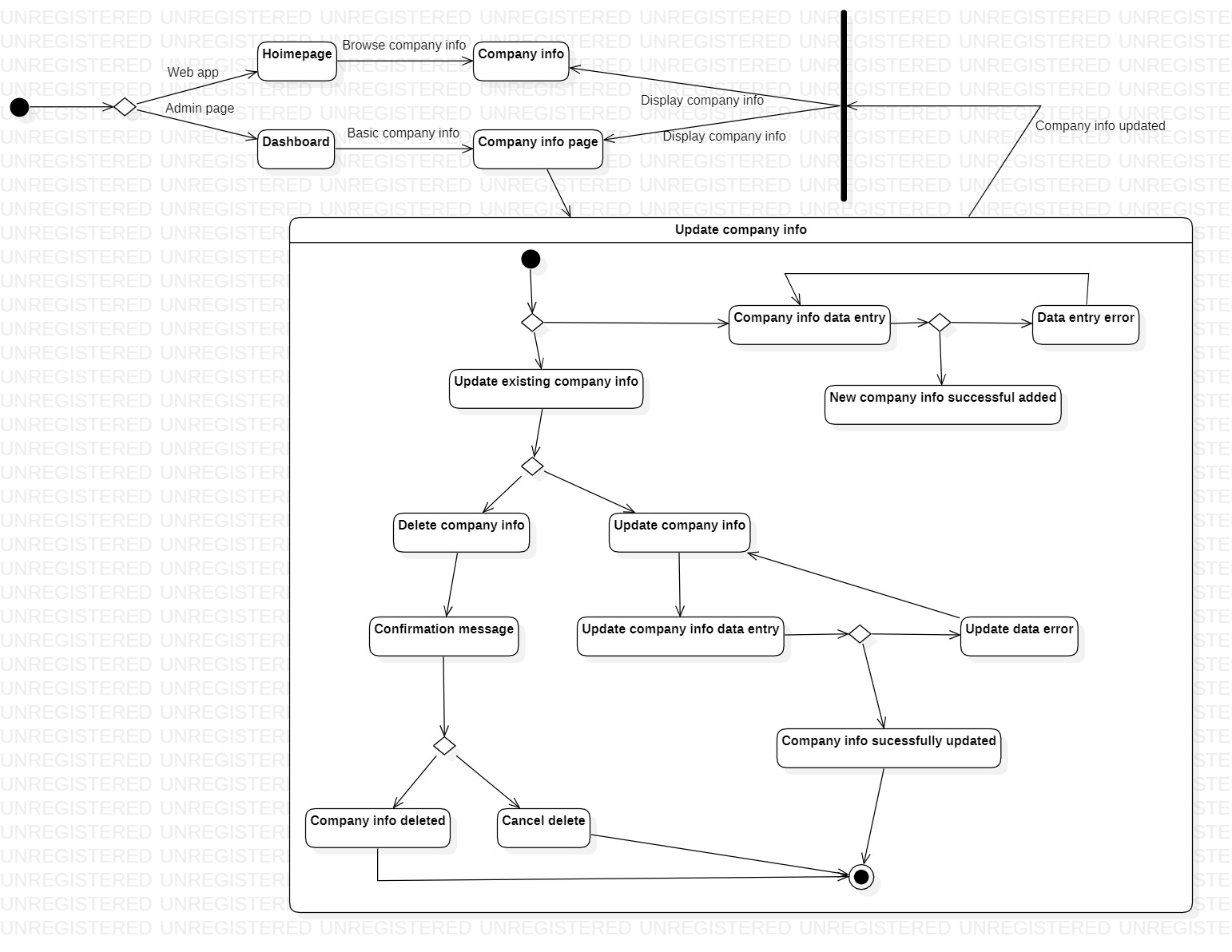


Figure 10: Company info state chart model component

Customers will search Abella Scent'z items in the event of a consumer landing successfully on the Abella Scent'z website (customer view). Little events can be triggered:

1. The customer can browse the company info.

If the administrator has successfully landed on the website of Abella Scent'z (admin page), the administrator will handle the items of Abella Scent’z. Little events can be triggered:

1. The administrator can add a new company info.

2. The administrator can edit from existing company info.

3. The administrators can delete existing company info.

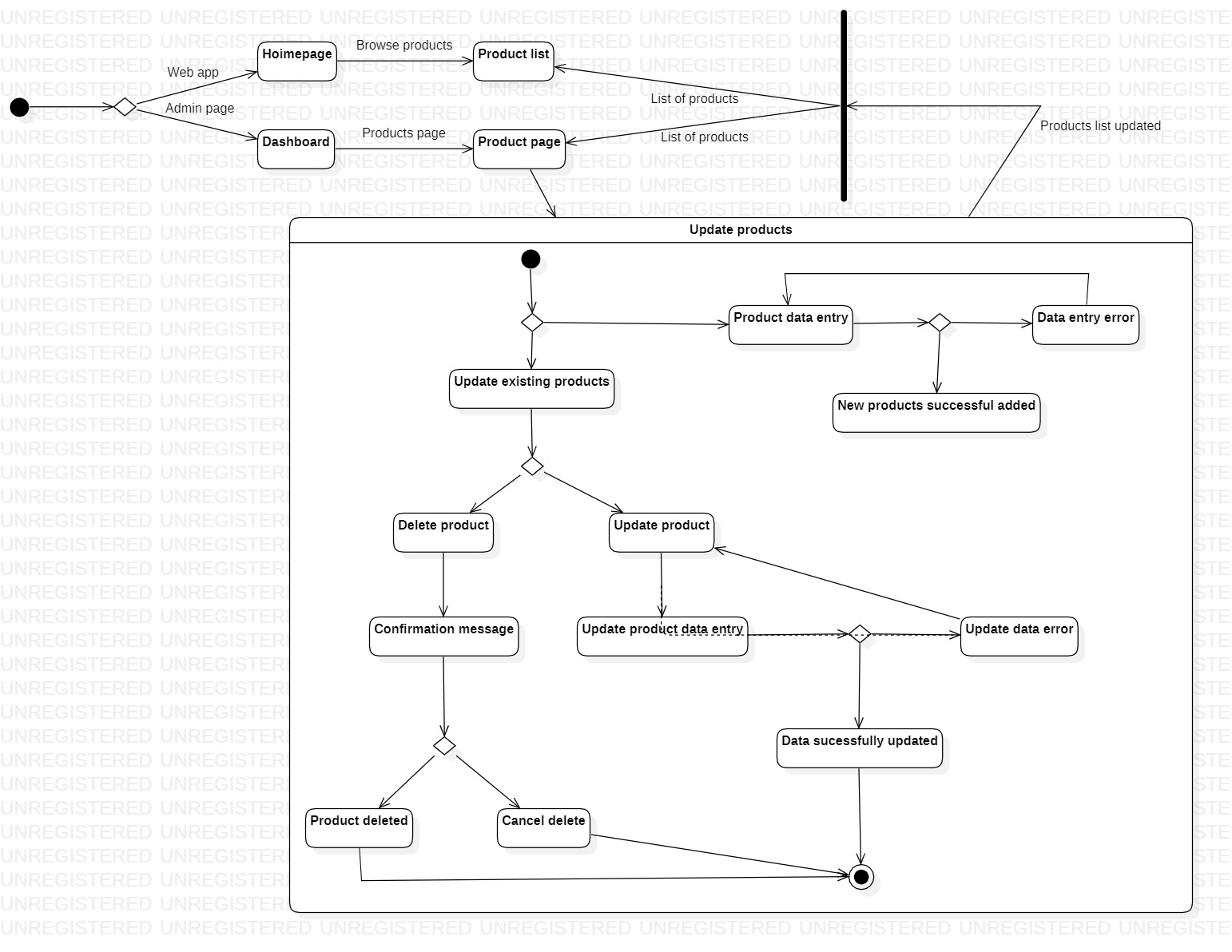


Figure 11: Product state chart model component

Customers will search Abella Scent'z items in the event of a consumer landing successfully on the Abella Scent'z website (customer view). Little events can be triggered:

1. The customer can browse the products and view a particular product.

If the administrator has successfully landed on the website of Abella Scent'z (admin page), the administrator will handle the items of Abella Scent’z. Little events can be triggered:

1. The administrator can add a new product.

2. The administrator can edit from existing product information.

3. The administrators can delete existing products.

Appendix A – Group Log

Please include here all the minutes from your group meetings, your group activities, and any other relevant information that will assist the Teaching Assistant to determine the effort put forth to produce this document