



Epoka University
Faculty of Engineering and Architecture
Department of Computer Engineering
CEN302 – Software Engineering

PMS Requirements Specification

June 09, 2023

Requirements Specification

Version 3

June 09, 2023

Prepared by:

Xhensila Hoxha
Xhim Valisi
Klaudia Voka
Klea Karaj
Klea Vreto
Ksenia Muho
Era Alcani
Elison Gramo

Received by: Msc. Ari Gjerazi

PMS Documentation

Epoka University	1
1. Executive Summary	4
1.1 Project Overview	4
1.2 Purpose and Scope of this Specification	4
2. Product/Service Description	5
2.1 Product Context	5
2.2 User Characteristics	6
2.3 Assumptions:	7
2.4 Constraints:	8
2.5 Dependencies:	9
3. Requirements	11
3.1 Functional Requirements	11
3.2 Non-Functional Requirements	16
3.2.1 Product Requirements	16
3.2.1.1 <i>User Interface Requirements</i>	16
3.2.1.2 <i>Learnability</i>	17
3.2.1.3 <i>Accessibility</i>	17
3.2.1.4 <i>Efficiency</i>	17
3.2.1.5 <i>Memorability</i>	17
3.2.1.6 <i>Errors</i>	18
3.2.1.7 <i>Satisfaction</i>	18
3.2.2 Organizational Requirements	18
3.2.2.1 <i>Availability</i>	18
3.2.2.2 <i>Latency</i>	19
3.2.2.3 <i>Monitoring</i>	19
3.2.2.4 <i>Maintenance</i>	19
3.2.2.5 <i>Operations</i>	19
3.2.2.6 <i>Standards Compliance</i>	20
3.2.2.7 <i>Portability</i>	20
3.2.3 External Requirements	20
3.2.3.1 <i>Security</i>	20
3.2.3.2 <i>Protection</i>	20
3.2.3.3 <i>Authorization and Authentication</i>	21
3.3 Domain Requirements	21
3.4 User Stories	21
4. SOFTWARE DIAGRAMS / DIAGRAMS	22
4.1 Requirements Analysis	22
4.1.1 User Scenarios	22
4.1.1.1 <i>User Scenarios List</i>	22
4.1.1.1.1 <i>User Scenarios Extended</i>	24
4.1.1.1.2 <i>User Cases List</i>	29
4.2 Behavioral Diagrams	45
4.2.1 Use Case Diagrams	45

PMS Documentation

4.2.2 Activity Diagrams	50
4.3.3 State Diagrams	80
4.4.4 Sequence Diagrams	84
4.4.5 Collaboration Diagrams	88
4.3 Data Flow Diagrams	89
4.4 Entity Relation	92
4.4.1 Database Shema Design	92
4.4.2 Entity Relation Diagram	93
4.5 Structural Diagrams	94
4.5.1 Class Diagram	94
4.5.3 Component Diagram	96
4.5.4 Deployment Diagram	97
5 Implementation Technology	98
5.1 Implementation	98
a) Website structure	99
b) Admin Panel Structure	114
c) Supplier Panel Structure	124
6. Project Planning	127
Network Analysis	127
Network	128
Gantt Chart	129
7. Appendix	129
Appendix A	129
Appendix B	130
Appendix C	130

1. Executive Summary

1.1 Project Overview

Nowadays, technology has brought a significant change in almost every aspect of our lives, and the pastry industry is no exception. With the introduction of modern technology, pastry shops are able to enhance the quality of their products and streamline their operations.

One of the primary ways the technology is revolutionizing the pastry industry is through automated baking equipment. Advanced ovens, mixers, and other baking equipment can help pastry chefs achieve consistent results while minimizing human error. Additionally, many pastry shops are implementing software programs to manage inventory, track sales, and optimize pricing. These programs provide real time data and analytics that can help owners and managers make informed decisions about their businesses.

Moreover, technology has also enabled pastry shops to connect with customers in new and innovative ways. Many pastry shops are leveraging social media platforms to showcase their products, engage with customers, and receive feedback. Online ordering systems and mobile apps are also becoming increasingly popular, allowing customers to easily place orders and track their deliveries.

Despite these advancements, some pastry shops still rely on traditional methods for record-keeping and customer management. In many cases, customer information is stored manually, making it difficult to track purchasing habits and preferences. By transitioning to digital record-keeping systems, pastry shops can streamline their operations and better understand their customers' needs.

Overall, the integration of technology in the pastry industry is creating new opportunities for businesses to improve their products, connect with customers, and optimize their operations. As technology continues to evolve, we can expect to see even more innovative solutions emerge in the world of pastry.

1.2 Purpose and Scope of this Specification

The purpose of this specification is to clearly define the requirements and expectations for a particular project or product. It serves as a reference document that outlines the features, functionality, performance, and other critical aspects of the project or product.

The scope of this specification outlines the boundaries of the project or product and describes what is included and excluded. It provides a clear understanding of the limitations and constraints of the project or product, including any technical or resource-related constraints.

In addition to defining the requirements and scope of the project or product, this specification also serves as a communication tool between stakeholders, including the project team, clients, and other interested parties. It ensures that everyone involved in the project has a common understanding of what is expected, what the project will deliver, and what limitations or constraints exist.

Overall, this specification plays a vital role in ensuring that the project or product is delivered on time, within budget, and meets the expectations of all stakeholders. It provides a clear roadmap for the project team to follow and helps to minimize misunderstandings and confusion that can lead to project delays or failure.

2. Product/Service Description

Our pastry project is an exquisite and indulgent venture dedicated to satisfying the sweet cravings of our valued customers. We specialize in meticulously handcrafting top-tier pastries using the finest and freshest ingredients at our disposal. From traditional French croissants to innovative and one-of-a-kind creations, our pastries promise to enchant and delight your taste buds.

At our pastry shop, we prioritize the use of only the freshest and highest-quality ingredients. We take great pride in sourcing our ingredients from local suppliers, ensuring that our pastries not only deliver exceptional taste but also contribute to a sustainable and eco-friendly approach.

To enhance convenience for our cherished customers, we are currently in the process of developing a user-friendly web platform. Through this platform, you will be able to effortlessly browse our menu, place orders for our delectable pastries online, and have them conveniently delivered right to your doorstep. Additionally, our platform will enable you to request custom orders tailored to your preferences and provide valuable feedback on your overall experience with us.

The development of a web platform for your pastry shop offers a multitude of advantages. It grants increased visibility and accessibility to your customers, streamlines the ordering and payment processes, and allows you to showcase your remarkable products and services in an engaging and visually captivating manner.

When embarking on the journey of creating a web platform for your esteemed pastry project, there are several crucial factors to consider. Firstly, you must determine the type of platform that best suits your needs. This could entail developing a simple yet informative website, setting up an efficient e-commerce site for seamless online ordering, or even crafting a tailor-made platform that seamlessly integrates with your existing systems and processes.

2.1 Product Context

Finally, it's important to consider ongoing maintenance and support for your web platform. This may include regular updates to your site's content and functionality, as well as technical support and troubleshooting as needed.

Overall, developing a web platform for your pastry project can be an excellent way to expand your reach and grow your business in today's digital landscape. By carefully considering your goals and needs, and working with experienced developers and designers, you can create a platform that is both effective and engaging for your customers.

2.2 User Characteristics

The online pastry management system will cater to various users involved in pastry operations and management. The user characteristics can be categorized as follows:

Admin - Pastry Owner and Manager:

- The admin, as the pastry owner and manager, has privileged access to the system for efficiently managing overall bakery operations.
- The admin can utilize various features and functionalities across multiple modules to monitor and control business processes effectively.
- Inventory levels can be tracked by the admin, who can also manage stock and generate reports on ingredient usage and waste.
- Recording sales transactions, generating receipts, and tracking sales by product, customer, or date are tasks handled by the admin.
- The admin has the ability to create and edit recipes, store ingredient lists, and calculate ingredient costs and yields.
- Managing staff schedules, recording attendance and time off, processing payroll, and conducting performance evaluations are part of the admin's responsibilities using the system.
- Financial reports can be accessed by the admin to monitor expenses and revenues, manage budgets, and handle accounts payable and receivable.
- The admin can create and manage customer accounts, implement loyalty programs and discounts, and collect and respond to customer feedback and reviews.

Furnitor - Staff and Employee:

- Furnitor, as a staff member or employee, can use the system for recording attendance, managing schedules, and accessing work-related information.
- Furnitor will have access to relevant modules based on their specific roles and responsibilities within the bakery.

Customers:

- Interact with the system indirectly through features like loyalty programs, discounts, and feedback submission
- Provide feedback and reviews, which can be accessed and responded to by bakery owners and managers

PMS Documentation

- It is important to note that the specific user characteristics and access privileges within the system may vary depending on the roles and permissions assigned by the bakery owners and managers.

2.3 Assumptions:

In developing the online pastry management system, certain assumptions are made based on the information provided:

1) Technological Assumptions:

- It is assumed that the target pastries have access to the necessary technological infrastructure, such as computers, internet connectivity, and compatible devices (smartphones, tablets, etc.).
- The assumption is made that the pastries have the technical proficiency to use and navigate the online pastry management system effectively, or they are willing to invest in training their staff accordingly.

2) Data Security and Privacy Assumptions:

- It is assumed that appropriate security measures will be implemented to protect sensitive data, such as customer information, financial records, and employee data.
- The assumption is made that the pastry owners and managers understand the importance of data security and privacy and will adhere to best practices in safeguarding confidential information.

3) Integration Assumptions:

- It is assumed that the online pastry management system may need to integrate with existing systems, such as accounting software or payment gateways, to streamline operations.
- The assumption is made that the necessary integration interfaces and protocols are available or can be developed to ensure smooth communication between the online pastry management system and other relevant systems.

4) User Adoption Assumptions:

- It is assumed that the users, including pastry owners, managers, staff, and customers, will embrace and adopt the online pastry management system as a tool to enhance their bakery operations.
- The assumption is made that sufficient training, support, and documentation will be provided to facilitate user understanding and acceptance of the system.

5) Customization Assumptions:

- It is assumed that the online pastry management system will offer customizable features and modules to cater to the specific needs of each bakery.
- The assumption is made that the system will be flexible enough to accommodate variations in workflows, recipes, pricing structures, and other bakery-specific requirements.

These assumptions serve as a basis for planning and development, but it is important to validate them during the implementation process and make adjustments as necessary to align with the unique circumstances of each bakery.

2.4 Constraints:

In the development and implementation of the online pastry management system, certain constraints may be present. These constraints can impact the design, functionality, and deployment of the system. Some common constraints to consider include:

1. Budgetary Constraints:

- The availability of financial resources may impose limitations on the scope of development, customization, and ongoing maintenance of the online pastry management system.
- Budget constraints may impact the selection of technologies, the level of system scalability, and the extent of features and functionalities that can be included.

2. Time Constraints:

- Project timelines and deadlines may impose restrictions on the development and deployment of the system.
- Time constraints may impact the ability to conduct comprehensive testing, implement all desired features, or accommodate changes or modifications requested during the development process.

3. Resource Constraints:

- Availability of skilled development resources, such as developers, designers, and project managers, may be limited, potentially impacting the speed and quality of system development.
- Limited hardware resources or infrastructure may impact system performance, scalability, or availability.

4. Compatibility Constraints:

- The online pastry management system may need to be compatible with existing hardware, software, or systems already in use by the bakery.
- Compatibility constraints may require additional efforts for integration, data migration, or customization to ensure seamless operations.

5. Regulatory Constraints:

- Compliance with industry-specific regulations and standards, such as data protection laws or financial regulations, may impose constraints on system design and functionality.

PMS Documentation

- Regulatory constraints may require additional security measures, data handling procedures, or reporting capabilities to ensure compliance.

6. User Skill and Adoption Constraints:

- The proficiency level and familiarity of bakery owners, managers, and staff with technology may impose limitations on the complexity and usability of the system.
- User skill and adoption constraints may require intuitive interfaces, user-friendly documentation, and training programs to facilitate system understanding and usage.

7. Scalability Constraints:

- The system should be designed and implemented in a way that allows for future scalability and growth of the bakery.
- Scalability constraints may require consideration of factors such as increasing data volumes, expanding customer base, or adding new bakery locations.

It is important to identify and address these constraints during the planning and development phases to ensure the successful implementation and utilization of the online pastry management system within the given limitations.

2.5 Dependencies:

In the development and implementation of the online pastry management system, there may be dependencies on various factors and components. These dependencies can impact the timeline, functionality, and success of the system. Some common dependencies to consider include

1) Technology Dependencies:

- The online pastry management system may rely on specific technologies, frameworks, or programming languages for its development and functionality.
- Dependencies on technology may include compatibility with certain operating systems, databases, web servers, or other software components.

2) Data Dependencies:

- The system may depend on accurate and up-to-date data to perform its functions effectively.
- Data dependencies may include integration with external data sources, synchronization with inventory or sales data, or data input and management by bakery staff.

3) Integration Dependencies:

- The online pastry management system may need to integrate with other existing systems or third-party applications used by the bakery.
- Integration dependencies may include payment gateways, online ordering platforms, accounting software, or customer relationship management (CRM) systems.

4) External Service Dependencies:

- The system may depend on external services or APIs (Application Programming Interfaces) to provide specific functionality or data.
- External service dependencies may include geolocation services, email delivery services, SMS gateways, or cloud storage services.

5) Resource Dependencies:

- The development and implementation of the system may require the availability of specific resources, such as hardware, software licenses, development tools, or testing environments.
- Resource dependencies may impact the progress and quality of the system development, as well as ongoing maintenance and support.

6) Stakeholder Dependencies:

- The system may have dependencies on stakeholders, such as bakery owners, managers, or staff, who need to provide input, feedback, or approvals during the development process.
- Stakeholder dependencies may influence the system's design, functionality, and usability based on their specific requirements and preferences.

7) Regulatory or Legal Dependencies:

- The system's development and implementation may be subject to regulatory or legal requirements, such as data privacy laws, consumer protection regulations, or industry-specific guidelines.
- Compliance with regulatory or legal dependencies may require additional development efforts, security measures, or documentation.

Identifying and managing these dependencies is crucial to ensure a smooth development and implementation process for the online pastry management system. Proper coordination, communication, and planning are necessary to address these dependencies and ensure that the system functions effectively and meets.

3. Requirements

3.1 Functional Requirements

Req#	Requirement	Comments	Priority	Date	Reviewed/Approved
FR_01	The software should have different views for different user levels.	The view for admin, customer and supplier will be different.	2	16/04/2023	Era Alcani / Xhensila Hoxha
FR_02	An admin panel could include functions for managing user accounts, such as creating new accounts, editing user profiles, resetting passwords, and deleting user accounts.	These functions would allow admins to efficiently manage user accounts, ensuring smooth user interactions and proper data protection measures.	1	16/04/2023	Era Alcani/ Ksenia Muho
FR_03	Admins could have the ability to add, edit, and delete products on the website.	This could include features like adding product descriptions, images, pricing, and managing inventory.	1	16/04/2023	Era Alcani/ Ksenia Muho
FR_04	Admins could have access to order management functions, including viewing and managing orders placed by customers.	This could involve features like updating order statuses, managing shipments, and cancellations.	1	16/04/2023	Era Alcani/ Ksenia Muho
FR_05	Admins could have features for managing customer communication and support, such as managing customer inquiries, responding to customer feedback, and review.	It is important to maintain good customer relations, provide prompt support, and ensure customer satisfaction.	2	16/04/2023	Era Alcani/ Ksenia Muho

PMS Documentation

FR_06	Admins could have the ability to configure website settings, such as managing payment gateways, shipping methods, and other general website settings.	These settings allow admins to customize the website's functionality and performance to meet the needs of the business and provide a seamless experience for customers.	1	16/04/2023	Era Alcani/ Ksenia Muho
FR_07	Admins are responsible for managing pastry shop or customer accounts on the platform.	This includes verifying their information, and managing their profiles, menu items, and other details.	1	16/04/2023	Era Alcani/ Ksenia Muho
FR_08	Admins are responsible for implementing and maintaining proper security measures to protect user data.	It is important to prevent unauthorized access, and ensure compliance with data protection regulations.	1	16/04/2023	Era Alcani/ Ksenia Muho
FR_09	Customers can browse the menu, select pastry items, customize orders, and place orders for their desired food items.	It is important that the website must be understandable from the customer view	1	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_10	Customers can create an account, edit their profile information and manage their order history.	This allows customers to have a convenient and personalized experience by easily managing their profile information and tracking their order history within their account on the food ordering website	1	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_11	Customers can securely provide payment information, such as credit card details or use other payment methods available on the platform, to complete their orders and process payments.	They can enter their payment information during the checkout process, and the website securely processes the payment using the chosen payment methods.	1	16/04/2023	Era Alcani/ Xhensila Hoxha

PMS Documentation

FR_12	Customers can track the status of their orders, receive updates on order progress and view estimated delivery.	This can help customers stay informed about the progress of their orders, manage their expectations, and plan accordingly.	2	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_13	Customers can provide feedback on their orders, and leave reviews to help other customers make decisions.	This allows them to share their experience with other customers, help them make decisions, and provide valuable feedback to the restaurant or delivery service.	3	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_14	Customers can contact customer support for inquiries, issues, or complaints related to their orders, payments, or other aspects of the food ordering process.	This typically involves contacting the customer support team through various channels.	1	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_15	Suppliers can add, edit, and manage their products or menu items on the website, including descriptions, images, prices, and other relevant information.	They may also have the ability to set availability, update pricing, and manage product variations, such as size or customization options.	1	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_16	Suppliers may have the ability to manage their inventory levels, update stock availability, and receive information when items are out of stock.	This allows them to ensure that they can fulfill orders based on their available inventory.	1	16/04/2023	Era Alcani/ Xhensila Hoxha, Ksenia Muho
FR_17	Suppliers can view incoming orders, including order details, and customer preferences.	They may have the ability to accept or decline orders.	1	16/04/2023	Era Alcani/ Xhensila Hoxha, Ksenia Muho
FR_18	The ability for users to create accounts, register, and login to the website to access	This enables users to have a personalized experience and manage their account settings	1	16/04/2023	Era Alcani/ Xhensila Hoxha

PMS Documentation

	personalized features such as order history, and account settings.	efficiently.			
FR_19	The user accounts have to be secured by passwords.	The security will be maintained by hashing the password before saving them in database.	1	02/05/2023	Era Alcani/ Xhensila Hoxha, Ksenia Muho
FR_20	The information entered by the user while creating an account should be first validated.	It is important that all the information entered is accurate.	1	02/05/2023	Era Alcani/ Xhensila Hoxha, Ksenia Muho
FR_21	A clear and comprehensive menu or product listings with detailed information, including images, descriptions, prices, and customization options	It enhances the user experience and helps users to understand the offerings of the website clearly.	1	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_22	A seamless and user-friendly ordering and checkout process that allows users to add items to their cart, provide payment information, and complete the order.	It should be intuitive, efficient, and secure, allowing users to confidently place their orders and complete the checkout process smoothly.	1	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_23	Secure and reliable payment processing capabilities that support various payment. (PayPal, Credit Card)	It instills trust in users, enhances the website's credibility for a positive user experience.	1	16/04/2023	Era Alcani/ Xhensila Hoxha, Ksenia Muho
FR_24	The ability for users to provide feedback on their orders and leave reviews to help other users make informed decisions.	These reviews help other users make informed decisions when placing their orders and also provide valuable feedback to the website admin for continuous improvement.	2	16/04/2023	Era Alcani/ Xhensila Hoxha

FR_25	The user can update the number of his products directly from the cart.	It is not necessary for the user to turn back in the shop page to update the product quantity.	2	02/05/2023	Era Alcani/ Ksenia Muho
FR_26	Search and filtering capabilities that allow users to quickly find specific menu items or products based on their preferences, dietary restrictions, or other criteria.	This enhances user convenience, saves time, and provides a better user experience on the food website.	2	16/04/2023	Era Alcani/ Xhensila Hoxha
FR_27	Related products will be displayed for a customer when he views a chosen product in the website.	After choosing a product, the customer will be able to choose similar products.	2	02/05/2023	Era Alcani/ Xhensila Hoxha, Ksenia Muho
FR_28	A new user should accept the terms and conditions before being registered.	A new user should accept the terms and conditions before being registered.	3	02/05/2023	Era Alcani/ Xhensila Hoxha
FR_29	Integration with social media platforms to enable sharing, promotions, and engagement with users.	This can include social sharing buttons, social media login options, and features that allow users to share their orders, reviews, or promotions on their social media profiles.	3	16/04/2023	Era Alcani/ Xhensila Hoxha

Table 1. Functional Requirements

3.2 Non-Functional Requirements

3.2.1 Product Requirements

3.2.1.1 User Interface Requirements

The user interface for the web applications should be compatible to any browser in order for the user to access it from Desktop or Mobile.

In addition to functions required, we are going to describe the characteristics of each interface which are supported from the sketches attached at the Appendix D.

The User interface could be grouped in 5 main interfaces:

1. Customer/ Main interface Which will contain:

- The header bar containing the navigation bar, the logo of the website “Cake My Day”, shop, account button.
- In the body part will be in the center of the page a quote below it will be shown some information about the pastry shop, then will be a question “Why to choose ‘Cake My Day’?” and some reasons why.
- In categories will be shown buttons of every category of pastry which will lead to the ‘shop’ page.
- The footer bar includes a small information about the pastry shop, links that direct to other pages and contact information like telephone number, email address and social media addresses.

2. Log in interface Which will contain:

- The header bar containing the navigation bar, the logo of the website “Cake My Day” , shop, account button.
- The log in form contains fields <Username> and <Password> and a button <Log In>. When that button is pressed the information is validated and the respective interface is showed to the user(admin/customer/supplier) or an error notification indicating a wrong username or password will be shown.
- The footer bar includes a small information about the pastry shop, links that direct to other pages and contact information like telephone number, email address and social media addresses.

3. Register interface

Which will contain:

- The header bar containing the navigation bar, the logo of the website “Cake My Day” , shop, account button.
- The register form contains fields <Full Name>, <Email>, <Username> , <Password> and <Confirm Password>. It has also a checkbox in order to agree with the Terms & Conditions of the form.
- The footer bar includes a small information about the pastry shop, links that direct to other pages and contact information like telephone number, email address and social media addresses.

4. Supplier interface Which will contain:

- The header bar containing the navigation bar, the logo of the website “Cake My Day” , shop,

account and basket button.

- The body part will contain the products and their quantity and the transaction button. In the left side of the body will be shown the function that are being done.

5. Admin interface Which will contain:

- The header bar containing the navigation bar, the logo of the website “Cake My Day” , shop, account and basket button.
- The admin dashboard will contain product, order, categories which will contain information and will contain options as delete, edit or add which will be controlled by the admin.

3.2.1.2 Learnability

- The system should be easy to use and require minimal training for administrators, customers, and suppliers to become proficient within a few hours.
- The system should be intuitive for customers, eliminating the need for specific training.
- The documentation provided should serve as a user guide for customers and suppliers of the pastry shop.
- In case of errors, the system should display clear and detailed error messages to help users understand the issue.
- Users are responsible for their own actions while using the system.

3.2.1.3 Accessibility

- When users register on the system, they are provided with individual usernames and passwords.
- Both the admin and supplier associated with the pastry shop website have access to the system.
- Registered users have the convenience of accessing the system from anywhere and at any time.

3.2.1.4 Efficiency

- All operations will be quick and processed in real-time.
- Once users are familiar with the system, they will be able to complete each operation efficiently within minutes.

3.2.1.5 Memorability

- The system is user-friendly and intuitive, so even if users only vaguely remember how to use it, it shouldn't be a problem.
- If users return to the system after a period of not using it, they should be able to quickly re-establish

their proficiency within the first hour.

- The user interfaces are designed to be easily understood by users, utilizing pictures, icons, buttons, and descriptions to enhance usability.

3.2.1.6 Errors

- The error rate is lower than the current error rate.
- Each time sensitive data is entered in the system double check procedure is applied where the user confirms the entered data.
- If an error occurs it can be edited and corrected immediately.

3.2.1.7 Satisfaction

- The system is user-friendly and it is very easy to use.

3.2.1.8 Capacity

The application will be developed to fulfill all the requirements of the pastry shop, catering to the needs of the admin, supplier, and customer simultaneously in real-time. Any changes made by one user will be immediately reflected for other users based on their clearance levels.

All users will share the same database, which may result in slight delays if multiple requests are made to the server and form queries. To optimize capacity and minimize such delays, users will be able to make changes locally on their computers before sending them to the database. This approach ensures that users can continue their work even in the presence of any delays.

The application will be hosted on a web server, and it does not require a large amount of storage space for both the application itself and the database to be used.

3.2.2 Organizational Requirements

3.2.2.1 Availability

- The application will be accessible 24/7, allowing users to access it anytime, every day.
- The application will be available to any user with a PC connected to the internet, enabling them to access their data from anywhere.
- The application will be designed to minimize downtime, as the data used by users is sensitive and time-sensitive.
- Scheduled maintenance activities will not impact the functionality of the system, and in case of any unforeseen issues, unscheduled maintenance will not result in more than 1 hour of downtime for the application.

3.2.2.2 Latency

The latency of the web application will be influenced by:

- The strength of the internet connection.
- The size of the database.
- The effectiveness of the algorithms employed for retrieving data from the database.

3.2.2.3 Monitoring

- The system will be developed with a strong emphasis on security and reliability. The user interfaces will be designed to be user-friendly and it is expected that system crashes will be minimal.
- Field validation will be implemented for various operations such as login, adding new customers or suppliers, updating personal information, changing passwords, etc. If the input does not meet the requirements, the system will display specific error messages to inform the user of the issue.
- Informative error messages will be prepared for most possible error scenarios, enabling users to understand and address the problem effectively.

3.2.2.4 Maintenance

- The system will be developed using MySQL for the database and APACHE server. Therefore, these two platforms will be used to maintain the application.
- The application will be developed in modules so it can be easily extended. New modules can be easily added to the application anytime.
- In case of system malfunction, a system restart should help. If that does not help, then maybe the server is down, so the maintenance department should be contacted.
- In case of any software update or bug correction, the users will be informed.

3.2.2.5 Operations

The system will provide various operations to the users, including:

- User login and access to personal information at any time.
- Limited access to the information entered in the system, only for those who require it.
- Adding, updating, and deleting pastry products.
- Viewing available product information.

- Ordering pastry products from the supplier and allowing customers to order from the website.
- Rating the service of the pastry shop.
- Contacting the pastry shop administrator.

The application will be available 24/7, with peak hours expected to be from 8 AM to 11 AM and 4 PM to 7 PM, though these may vary depending on daily fluctuations in visitor requests.

Due to the sensitivity of the information entered into the system, hashed passwords will be used to ensure security.

3.2.2.6 Standards Compliance

Our newly developed application is designed to digitize the order system for our pastry shop. The website includes online payment functionality, which adheres to strict security standards to safeguard cardholder data and ensure secure payment processing. As a responsible pastry shop, we comply with all relevant food safety regulations in our jurisdiction. This includes proper handling, storage, and labeling of food products, as well as adherence to health and safety standards during food preparation and handling. We also obtain all necessary permits, licenses, and certifications required for operating a pastry shop in our country.

3.2.2.7 Portability

- The system will be web-based, ensuring consistent operation across different operating systems.
- Users only require a computer or mobile phone with an internet connection to access the system.

3.2.3 External Requirements

3.2.3.1 Security

To ensure the security of our system, we recognize that the information stored in the database is sensitive and subject to legal regulations. As per the law No.9887, dated 10.03.2008, amended with law No.48/2012, "On the Protection of Personal Data", it is required that the personal information of each user remains private and accessible only to authorized individuals. As a measure to protect this information, hashed passwords are used for secure storage in our system.

3.2.3.2 Protection

To safeguard the system from unauthorized access, modification, disclosure, destruction, or misuse, we will implement the following precautions:

- Encryption of sensitive information, such as passwords, using hashing methods to protect user privacy.
- Maintaining a log of user activity for accountability and tracing any potential issues.

- Placing responsibility on the admin for ensuring the authenticity of user-entered personal data, with the system not being held liable.
- Implementing data validation checks, including special character validation and other specific conditions, before inserting or updating data in the database.
- Using pop-up windows to confirm intentional actions and prevent accidental actions by users.
- Ensuring that each customer only has access to their relevant information, maintaining privacy and data segregation.

3.2.3.3 Authorization and Authentication

The Authorization and Authentication factors:

- User authentication will be based on the use of usernames and passwords.
- Authorization will be determined by the user type, allowing access only to respective information based on their role.
- Sessions will be used to track the currently logged-in user for enhanced security.
- In the event of incorrect login credentials, a notification will be displayed to the user to alert them.

3.3 Domain Requirements

The web application functions as a website for a privately owned pastry shop, with the primary goals of promoting its products and services, engaging with customers, and facilitating online transactions. The website acts as a virtual representation of the pastry shop, providing a platform to connect with potential customers, showcase its offerings, and establish its brand image. To ensure the security of sensitive information, access to the website is restricted to registered users with valid accounts on the software.

3.4 User Stories

1. Customer

As a customer, I want to contact the administrator, so that I can ask for a personalized product.

As a customer, I want to delete the items I don't want from my cart, so I can pay directly.

As a customer, I want to update the quantity of the products I want to buy, in my cart, so I can pay in the next step.

As a customer, I want to leave feedback, so I can share my thoughts on this website.

As a customer, I want to be able to change my personal details or password, so I can have my updated details available in the website.

As a customer, I want to be able to log in, so I can buy products.

As a customer, I want to log out from my account, so that I can come back later for new purchases if I want to.

As a customer, I want to view my transaction history, so that I can be updated with my order's arrival status.

As a customer, I want to view the product's details, so I can be completely informed about a product type and price.

As a customer, I want to be able to buy products, so I can enjoy the pastries.

As a customer, I want to view general information about this website, so I can be sure about their products.

As a customer, I want to view their location, so I can buy in the shop if I want to.

As a customer, I want to learn about the terms and privacy of this page, so I can be sure that my personal data is secure.

As a customer, I want to check the social media feeds, so I can be more in touch with the products.

As a customer, I want to view other customers' views on this website, so that I can mark my general points about the website.

As a customer, I want to pay by different methods, so I can be guaranteed that I can pay either way.

As a customer, I want a success message if the order is placed, so that I can be sure about my money going.

As a customer, I want to navigate different categories, so I can choose the products that fits my needs best.

2. Administrator

As an Administrator, I want to view all other administrators, so that I can create new ones.

As an Administrator, I want to view all suppliers, so that I can create new ones.

As an Administrator, I want to view all suppliers, so that I can delete one or more.

As an Administrator, I want to view all categories so that I can update them.

As an Administrator, I want to view all categories so that I can delete one or more.

As an Administrator, I want to view all categories so that I can create new ones.

As an Administrator, I want to view all products so that I can update their status.

As an Administrator, I want to view all products so that I can delete one or more.

As an Administrator, I want to view all products so that I can create new ones.

As an Administrator, I want to view all orders so that I can delete one or more.

As an Administrator, I want to view all orders so that I can update them.

As an Administrator, I want to view all feedbacks so that I can filter them.

As an Administrator, I want to view all messages so that I can contact back.

3. Supplier

As a Supplier, I want to view all products, so that I can update their price and quantity.

As a Supplier, I want to view all Administrators' emails, so that I can contact them.

4. SOFTWARE DIAGRAMS / DIAGRAMS

4.1 Requirements Analysis

4.1.1 User Scenarios

4.1.1.1 User Scenarios List

Nr	Name	Description
US_01	User logs in	Users: Customer, Administrator, Supplier log in using email and password
US_02	User changes password	Users: Customer, Administrator, Supplier can change their password
US_03	Edit profile details	Customer can edit his profile details: Name, Address, City, Country, Zip Code and Phone Number
US_04	Create a new administrator	Administrator can create new administrators to add them in the system

US_05	Administrators' List	Administrator can view the list of all administrators already in the system
US_06	Create a new category	Administrator can create new categories to add them in the system
US_07	Categories' List	Administrator can view the list of all categories already in the system
US_08	Update a category	Administrator can update a category by changing different fields of it
US_09	Delete a category	Administrator can delete a category from the system
US_10	Create a new product	Administrator can create new products to add them in the system
US_11	Products' List	Administrator can view the list of all products already in the system
US_12	Change product's status	Administrator can change a product's status from available to unavailable and vice versa
US_13	Delete a product	Administrator can delete a product from the system
US_14	Orders' List	Administrator can view the list of all orders made by different customers
US_15	Update an order	Administrator can update information of a specific order made by a customer
US_16	Delete an order	Administrator can delete a specific order made by a customer if needed for various reasons
US_17	View feedback	Administrator can view the feedbacks left by the customers of the website, and filter them by options
US_18	Update product's price	Supplier can update the product's price of a specific product that they supply
US_19	Update product's quantity	Supplier can update the product's quantity of a specific product that they supply
US_20	View product's details	Customer can view the respective information about any of the product they select in the "Shop" page
US_21	Add item to card	Customer can add product items from the "Shop" page in their basket/card
US_22	Delete item from card	Customer can remove product items directly from their basket/card
US_23	Update product's quantity in card.	Customer can update product's quantity directly from their basket/card
US_24	Make an order	Customer can buy products by checking out their basket, and filling out the billing and payment information
US_25	View transactions history	Customer can view the information about their current order and previous orders (if made), in their profile
US_26	Contact	Customer can contact on the website by email, phone number or by sending a message form providing their details
US_27	Leave feedback	Customer can leave feedback about the overall services and offers of the website by filling out a specific form in the website "Feedbacks" page
US_28	User logs out	Administrator, supplier and customer log out from their accounts

4.1.1.1 User Scenarios Extended

US_01 User logs in

- a) User enters his email.
- b) User enters his password.
- c) User clicks “LOG IN” button.
- d) If data is correct, user will be redirected to his home page.
- e) If data is not correct or if a field is empty, an error message will be displayed and user will repeat steps from step a.

US_02 User changes password

- a. User logs in following the steps in US_01.
- b. User clicks “Change Password” button in his respective home page settings.
- c. User enters his old password.
- d. User enters his new password.
- e. User enters his new password again to verify it.
- f. User clicks “Continue”.
- g. If old password is correct and if new password is verified, a message “Password changed successfully” will be displayed.
- h. If the old password is not correct or if the new password is not verified, a message “Password could not be changed. Try again!” will be displayed.

US_03 Edit profile details

- a. Customer logs in following the steps in US_01 and is redirected to his home page.
- b. Customer clicks his name in the navigation bar and a drop-down menu will be shown.
- c. Customer clicks “Settings” from the menu.
- d. Customer may change one of the following fields: Name, Address, City, Country, Zip Code and Phone Number.
- e. Customer clicks “Update” button.
- f. If there are no empty fields, the customer will be redirected to home page and changes have been made successfully.
- g. If there is an empty field or more, an error message will appear and customer will have to repeat steps again from d.

US_04 Create a new Administrator

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Admins” in the side-bar menu.
- c. Administrator clicks “Create Admins” button.
- d. Administrator enter Email, Admin Name and Password.
- e. Administrator clicks “Create” button.
- f. If there are no empty fields, the new admin is created successfully and he will be shown in database as well.
- g. If there is an empty field or more, an error message will appear and the administrator will have to repeat steps again starting from d.

US_05 Administrators' List

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Admins” in the side-bar menu.
- c. Administrator will be able to see a table containing all the information (admin name and email) for all administrators of the system.

US_06 Create a new Category

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Categories” in the side-bar menu.
- c. Administrator clicks “Create Categories” button.
- d. Administrator enters Name, Icon, Description and an Image.
- e. Administrator clicks “Create” button.
- f. If there are no empty fields, the new category is created successfully and it will be shown in database as well.
- g. If there is an empty field or more, an error message will appear and the administrator will have to repeat steps again starting from d.

US_07 Categories' List

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Categories” in the side-bar menu.
- c. Administrator will be able to see a table containing all the information (category name and two buttons: “Update” and “Delete”) for all categories of the system.

US_08 Update Category

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Categories” in the side-bar menu.
- c. Administrator goes to the chosen category and clicks “Update” button.
- d. Administrator can change the name, icon and description of the category.
- e. Administrator clicks “Update” button.
- f. If there are no empty fields, the category is updated and the changes will be shown in database as well.
- g. If there is an empty field or more, administrator will need to repeat steps from d.

US_09 Delete Category

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Categories” in the side-bar menu.
- c. Administrator goes to the chosen category and clicks “Delete” button.
- d. The category will be deleted immediately and it will disappear from the database as well.

US_10 Create a new Product

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Products” in the side-bar menu.
- c. Administrator clicks “Create Products” button.
- d. Administrator enters Title, Price, Description, selects a Category and an Expiration Date and uploads an Image.

- e. Administrator clicks “Create” button.
- f. If there are no empty fields, the new product is created successfully and it will be shown in database as well.
- g. If there is an empty field or more, an error message will appear and the administrator will have to repeat steps again starting from d.

US_11 Products’ List

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Products” in the side-bar menu.
- c. Administrator will be able to see a table containing all the information (product name, price, expiration date and two buttons: one for changing status and one “Delete”) for all products of the system.

US_12 Change Product’s Status

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Products” in the side-bar menu.
- c. Administrator goes to the chosen category and clicks the button under “Status” header.
- d. If the product was “Available”, after clicking it will be “Unavailable”.
- e. If the product was “Unavailable”, after clicking it will be “Available”.
- f. These changes will be visible in database as well.

US_13 Delete Product

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Products” in the side-bar menu.
- c. Administrator goes to the chosen product and clicks “Delete” button.
- d. The product will be deleted immediately and it will disappear from the database as well.

US_14 Orders’ List

- a. Administrator follows the steps in US_01 to log in and is redirected to his home page.
- b. Administrator clicks “Orders” in the side-bar menu.
- c. Administrator will be able to see a table containing all the information (first name, last name, email, country, status, price, date and two buttons: “Update” and “Delete”) for all orders of the system.

US_15 Update an order

- a. Administrator follows the steps in US_14.
- b. Administrator clicks the button “Update” for the specific order.
- c. A dropdown menu in the form filled with current status of the order is shown.
- d. Administrator makes the necessary changes.
- e. Administrator double checks if the data entered is correct.
- f. Administrator clicks the button “Update”.
- g. System validates data according to the specified requirements.
- h. If validation is passed successfully, the new data is saved in the database and is shown the “orders” sub-panel for the current order. The administrator is redirected to the “orders” page.

- i. If validation is not passed successfully, the old data continues to show in “orders” sub-panel for the current order.

US_16 Delete an order

- a. Administrator follows the steps in US_14.
- b. Administrator clicks the button “Delete” for the specific order.
- c. The order is deleted immediately and the respective change is reflected in the database and the order is no longer visible in the Orders’ list.

US_17 View feedback

- a. Administrator logs in following the steps in US_01 and directs in their home page.
- b. Administrator redirects in the “Feedbacks” sub-panel and views the list.
- c. Administrator chooses one of the given options (bad, good, very good, or other).
- d. Administrator views filtered feedback.

US_18 Update product’s price

- a. Supplier follows the steps in US_11 for “supplier”.
- b. Supplier clicks the button “Update Price” for the specific product.
- c. A form is shown with an input field.
- d. Supplier makes the necessary changes.
- e. Supplier double checks if the data entered is correct.
- f. Supplier clicks the button “Update Price”.
- g. System validates data according to the specified requirements.
- h. If validation is passed successfully, the data is saved in the database. An informative message “Price updated successfully!” will be shown and the supplier is redirected to the products page.
- i. If validation is not passed successfully, informative messages will show that there’s a problem, so the supplier can fix it and continue again from step f.

US_19 Update product’s quantity

- a. Supplier follows the steps in US_11 for “supplier”.
- b. Supplier clicks the button “Update Quantity” for the specific product.
- c. A form is shown with an input field.
- d. Supplier makes the necessary changes.
- e. Supplier double checks if the data entered is correct.
- f. Supplier clicks the button “Update Quantity”.
- g. System validates data according to the specified requirements.
- h. If validation is passed successfully, the data is saved in the database. An informative message “The quantity updated successfully!” will be shown and the supplier is redirected to the products page.
- i. If validation is not passed successfully, informative messages will show that there’s a problem, so the supplier can fix it and continue again from step f.

US_20 View product’s details

- a. Customer logs in following the steps in US_01, and directs in the website’s main page.

- b. Customer redirects in the “Shop” page.
- c. Customer chooses a specific category.
- d. Customer chooses a specific product and view its information: overview, picture and price.

US_21 Add item to card

- a. Customer follows the steps in US_20.
- b. Customer adds this product to their card by clicking “Add to card” button.
- c. An informative message is displayed “Product added to card”.
- d. Customer repeats c, d and e steps for several products in different/same category.

US_22 Delete item from card

- a. Customer follows steps in US_21.
- b. Customer views their card.
- c. Customer may remove any of the products from their card by clicking the “Delete” button.
- d. An informative message is displayed “Product deleted successfully”.

US_23 Update product’s quantity in card.

- a. Customer follows the steps in US_21.
- b. The current quantity of the specific product is shown in its text field. Customer may change this quantity by clicking the “Update” button.
- c. An informative message is displayed “Done”.

US_24 Make an order

- a. Customer follows the steps in US_21.
- b. Customer may do necessary changes in their card by following the d step in US_22 or US_23.
- c. Customer clicks the “Checkout” button.
- d. Customer redirects in the “checkout” page and fulfills their billing details and card information. Customer may choose to pay via PayPal or by their card.
- e. System validates data according to the specified requirements.
- f. If validation is passed successfully, the data is saved in the database. An informative message “You can check your order now!” will be shown and a button to redirect to the home page is shown.
- g. If validation is not passed successfully, informative messages will show where the problem is, so the customer can fix it and continue again from step d.

US_25 View transactions history

- a. Customer makes one/several orders following the steps in US_24.
- b. Customer clicks their “username” in the navigation bar.
- c. A dropdown menu is shown and the user chooses “Transactions History” from that list.
- d. The history of his orders will be shown in the respective page with the following fields of information: Name, Date, Total Price in USD, Status.

US_26 Contact

- a. Customer logs in following the steps in US_01 and directs in the website’s main page.

- b. Customer may go to any of the website's page's footer.
- c. Customer may contact by call, email or the customer clicks the contact link that redirects to the "Contact" page.
- d. Customer contacts by call/email in the respective "phone" or "mail" platforms. Otherwise, customer contacts by filling out the form in the "Contact" page.
- e. System validates data according to the specified requirements for the contact form.
- f. If validation is passed successfully, the data is saved in the database. The contact page refreshes.
- g. If validation is not passed successfully, informative messages in respective fields will show that there's a problem, so the customer can fix it and continue again from step d.

US_27 Leave feedback

- a. Customer logs in following the steps in US_01 and directs in the website's main page.
- b. Customer redirects to the "Feedbacks" page.
- c. Customer will complete a form with several questions about the website.
- d. Customer clicks "Leave feedback" button.
- e. Alert: Are you sure you want to leave feedback? YES/ NO.
- f. If NO, do nothing, we stay at the same page.
- g. If YES, the feedback will be saved in the database and will be shown in the admin's "Feedbacks" sub-panel.

US_28 User logs out

- a. User logs in following the steps in US_01, and directs in the website's main page.
- b. User follows some of the scenarios listed above.
- c. User clicks their "username" in the navigation bar.
- d. A dropdown menu is shown and the user chooses "Log out" from that list.
- e. User will be logged out from the system and he will be redirected to the main page of the website (index page).

4.1.1.2 User Cases List

Name	User logs in
Summary	User enters username and password to access his account.
Actor	Customer / Admin / Furnitor
Description	User can use his/her account after giving the right credentials that are required.
Precondition	User must have an existing account.
Alternatives	Each user has its unique credentials and they can have different roles but not two/three at the same time (Customer/ Admin/ Furnitor).
Post Condition	User is logged on his account.

UC_1-US_1-User log in

Name	User Changes Password
Summary	User enters username and password to access his account.
Actor	Customer / Admin / Furnitor
Description	User can use his/her account after giving the right credentials that are required.
Precondition	User must have an existing account.
Alternatives	If the password written does not fulfill the conditions then it must be written again.
Post Condition	User is logged on his account.

**UC_2-US_2-User changes
password**

Name	Edit Profile Details
Summary	User can modify/update their personal information such as name,address,contact or password.
Actor	User
Description	User can change its personal information as he/she wants to if needed.
Precondition	User must have an existing account. User must be logged. The website must have an editable profile section.
Alternatives	If the user feels that his/her password is not safe they can change it.
Post Condition	User's profile detail will be updated in the pastry shop's database.

UC_3-US_3-Edit profile details

Name	Create a new administrator
Summary	Creating a new admin from an existing admin page. Should write all the needed credentials.
Actor	Administrator
Description	A new employee who will have access to the admin dashboard of the pastry shop website needs to have a new account created by the admin.
Precondition	The admin dashboard is accessible to admin. The ability to establish a new admin account is granted to admin.
Alternatives	If the administrator changes his mind and does not want the admin to be added he can just skip clicking the 'add' button.
Post Condition	The database of the pastry store receives a new admin account that has been created.

UC_4-US_4-Create a new admin

Name	Administrators List
Summary	Accessing the list of Administrators.
Actor	Administrator
Description	Admin needs to view the list of admins who have access to the pastry shop website's admin dashboard, along with their roles.
Precondition	Admin has access to the admin dashboard. There must be at least one admin account already created.
Alternatives	Administrators are the only users that can access the administrators list, the other kind of users do not have that permission.
Post Condition	Admin can view the list of admins with their roles and permissions.

UC_5-US_5-Administrators list

Name	Create new category
Summary	The pastry shop website needs to create a new category for the pastries to be displayed on the website.
Actor	Administrator
Description	Admin needs to create a new category to be added to the pastry shop website. This includes filling in the necessary details such as category name, description, image.
Precondition	Admin must be logged in.
Alternatives	After typing all the necessary and required data for adding a new category we just click the button update otherwise we just go back to where we were.
Post Condition	The new category will be displayed on the website along with the other existing categories.

UC_6-US_6-Create a new category

Name	Categories List
Summary	The admin or customer needs to view the list of categories of pastry that are displayed on the pastry shop website's menu.
Actor	Administrator/Customer
Description	The admin or user needs to view the list of categories of pastry that are displayed on the pastry shop website's menu.
Precondition	A user must be logged in. There must be existing categories and pastries already created.
Alternatives	Admins and also customers can access the list of categories of pastries that are in the website.
Post Condition	The user can view all the categories of pastries.

UC_7-US_7-Category list

Name	Update Category
Summary	Admin needs to update an existing category of pastry on the pastry shop website's menu.
Actor	Administrator
Description	Admin needs to update an existing category of pastry on the pastry shop website's menu, such as changing the name or description
Precondition	Admin has access to the admin dashboard. There must be existing categories and pastries already created.
Alternatives	If admin has written all the necessary and required data correctly, he/she should press 'update' otherwise he/she can just go back. If 'update' is pressed then the data is updated and shown on the website.
Post Condition	The category of pastry is updated on the pastry shop website's menu.

UC_8-US_8-Update Category

Name	Delete Category
Summary	Admin needs to delete an existing category of pastry on the pastry shop website's menu.
Actor	Administrator
Description	Admin needs to delete an existing category of pastry on the pastry shop website's menu, such that it won't be displayed anymore.
Precondition	Admin has access to the admin dashboard. There must be existing categories and pastries already created.
Alternatives	If the administrator is sure that he/she wants to delete a category he/she simply presses 'delete'.
Post Condition	The category of pastry is deleted from the pastry shop website's menu.

UC_9-US_9-Delete category

Name	Create new product
Summary	The pastry shop website needs to create a new product to be displayed on the website's menu.
Actor	Administrator
Description	Admin needs to create a new product to be added to the pastry shop website's menu. This includes filling in the necessary details such as product name, description, image, price, and category.
Precondition	Admin has access to the admin dashboard.
Alternatives	After typing all the necessary and required data for adding a new product we just click the button update otherwise we just go back to where we were.
Post Condition	The new product is displayed on the pastry shop website's menu.

UC_10-US_10-Create new product

Name	Product List
Summary	The pastry shop website needs to display a list of all products available on the website's menu.
Actor	Administrator/Customer
Description	Admin/Customer needs to display a list of all products available on the pastry shop website's menu. This includes displaying the product name, image, description, price, and category.
Precondition	Admin has access to the admin dashboard. There must be existing products.
Alternatives	There must be existing products and not only admin but also customer can access the list of products from where he/she can order products.
Post Condition	A list of all products available on the pastry shop website's menu is displayed.

UC_11-US_11-Product List

Name	Change product status.
Summary	The pastry shop website needs to change the status of a product from "available" to "out of stock" or vice versa.
Actor	Administrator
Description	Admin needs to change the status of a product from "available" to "out of stock" or vice versa. This will inform customers whether a product is available for purchase or not.
Precondition	Admin has access to the admin dashboard. There must be existing products that need to be changed.
Alternatives	If a product is no longer available we should change the status to 'out of stock'. If the product comes back to stock we change the product to 'available'.
Post Condition	The product status is updated on the pastry shop website

UC_12-US_12-Change product status

Name	Delete product.
Summary	The pastry shop website needs to delete a product from its menu.
Actor	Administrator
Description	Admin needs to delete a product from the pastry shop website's menu. This is necessary when a product is no longer available or has been discontinued.
Precondition	Admin has access to the admin dashboard. There must be existing products that need to be deleted.
Alternatives	If the admin is sure that the product will no longer be purchased, he/she can delete it. If the product has a chance of coming back to stock then admin must not delete it.
Post Condition	The product is deleted from the pastry shop website's menu. The product is no longer displayed on the website.

UC_13-US_13-Delete product

Name	Orders List
Summary	The pastry shop website needs to display a list of orders that have been placed by customers.
Actor	Administrator
Description	Admin needs to view a list of orders that have been placed on the pastry shop website. This will help them manage the orders, update their status, and prepare them for future plans.
Precondition	Admin has access to the admin dashboard. There must be at least one order that has been placed by a customer.
Alternatives	The list of orders can be accessed only by the admin and not other users.
Post Condition	Admin can view the list of orders that have been placed on the pastry shop website.

UC_14-US_14-Orders List

Name	Update order
Summary	This involves a customer placing an order for pastries at a pastry shop.
Actor	Customer
Description	The actor in this use case is a customer who wants to place an order for pastries on a pastry shop website.
Precondition	The customer has access to the internet, knows the specific types and quantities of pastries they want to order, and has a way to make online payments.
Alternatives	The customer visits the pastry shop's website, selects the pastries they want to order, and makes payment online. Pickup or delivery details can also be specified on the website.
Post Condition	The website receives the order and sends it to the pastry shop staff for preparation.

UC_15 – US_15 – Update order

Name	Delete order
Summary	This involves a customer deleting an order for pastries at a pastry shop.
Actor	Customer
Description	The actor in this use case is a customer who wants to delete an order for pastries on a pastry shop website.
Precondition	The customer has access to the internet, he can delete his order if he does not want to proceed with the order.
Alternatives	The customer visits the pastry shop's website, deletes the order he does not want.
Post Condition	The website receives that the order is deleted and does not proceed with that order.

UC_16 – US_16 – Delete order

Name	View feedback
Summary	The use case involves a customer viewing feedback from other customers about the pastry shop's on the pastry shop's website.
Actor	Customer
Description	The actor in this use case is a customer who wants to view feedback of the pastry shop's website.
Precondition	The customer has access to the internet and navigates to the pastry shop's website.
Alternatives	The pastry shop may choose to display only positive feedback on their website.
Post Condition	The customer has viewed feedback on the pastry shop's website, which may influence their decision to make a purchase from the pastry shop or not.

UC_17 – US_17 – View feedback

Name	Update product's price
Summary	This use case involves a pastry shop administrator updating the price of a product on the pastryshop's website.
Actor	Administrator
Description	The administrator selects the product they want to update the price for, enters the new price for the selected product. The website updates the price for the selected product.
Precondition	The administrator is logged in to the pastry shop's website as an authorized user.
Alternatives	The admin may need to update the price in case of an increased price of the product in the market.
Post Condition	The price for the selected product has been updated on the pastry shop's website, and customers can now see the new price.

UC_18 – US_18– Update product's price

Name	Update product's quantity
Summary	This use case involves a pastry shop supplier updating the quantity of a product on the pastry shop's website.
Actor	Supplier
Description	The supplier selects the product they want to update the quantity for, enters the new quantity for the selected product. The website updates the quantity for the selected product.
Precondition	The supplier is logged in to the pastry shop's website as an authorized user.
Alternatives	The supplier may need to seek approval from a admin before updating the quantity.
Post Condition	The quantity for the selected product has been updated on the pastry shop's website, and customers can now see the new quantity.

UC_19 – US_19– Update product's quantity

Name	Buy a product
Summary	This use case involves a customer buying a product from the pastry shop's website.
Actor	Customer
Description	<p>The customer navigates to the product they want to buy on the pastry shop's website. The customer adds the product to their cart, proceeds to the checkout page and confirms the order details, including the product, quantity, and price.</p> <p>Then selects their payment method and enters their payment information. The website processes the payment and confirms the order.</p>
Precondition	The customer is logged in to their account on the pastry shop's website and has a valid payment method associated with their account.
Alternatives	If the product is out of stock, the customer may see that the product is available and will be unable to complete the purchase.
Post Condition	The customer has successfully bought the selected product from the pastry shop's website and the payment is processed.

UC_20 – US_20– Buy a product

Name	Add item to cart
Summary	This use case involves a customer adding an item to their cart on the pastry shop's website.
Actor	Supplier
Description	The customer navigates to the product they want to buy on the pastry shop's website. The customer selects the desired quantity of the product. The customer clicks the "Add to Cart" button. The website updates the customer's shopping cart with the selected product and quantity.
Precondition	The customer is logged in to their account on the pastry shop's website.
Alternatives	The customer may be prompted to log in or create an account if they have not done so already.
Post Condition	<p>The selected product and quantity have been added to the customer's shopping cart on the pastry shop's website. The customer can continue browsing and adding more items to their cart or proceed to checkout to complete the purchase.</p> <p>The website updates the cart information as items are added or removed.</p>

UC_21 – US_21– Add item to cart

Name	Delete item to cart
Summary	This use case involves a customer deleting an item from their cart on the pastry shop's website.
Actor	Customer
Description	The customer navigates to their shopping cart on the pastry shop's website, identifies the item they want to delete from their cart, clicks the "Delete" button next to the item in the cart. The website updates the customer's shopping cart by deleting the selected item.
Precondition	The customer is logged in to their account on the pastry shop's website and has items in their shopping cart.
Alternatives	The customer may be prompted to confirm that they want to delete the item from their cart.
Post Condition	The selected item has been successfully deleted from the customer's shopping cart on the pastry shop's website. The customer can continue browsing through the website.

UC_22 – US_22– Delete item to cart

Name	View transaction history
Summary	This use case involves a customer viewing their transaction history on the pastry shop's website.
Actor	Customer
Description	The customer navigates to their account settings or profile page on the pastry shop's website, selects the "Transaction History" option. The website displays a list of the customer's past transactions.
Precondition	The customer is logged in to their account on the pastry shop's website and has made at least one purchase.
Alternatives	The website may provide different views or sorting options for the transaction history, such as by date, price, or status.
Post Condition	The customer can view their transaction history on the pastry shop's website, which includes details about their past purchases.

UC_23 – US_23 – View transaction history

Name	Update product's quantity on cart
Summary	This use case involves a customer updating the quantity of a product in their shopping cart on the pastry shop's website.
Actor	Customer
Description	The customer navigates to their shopping cart on the pastry shop's website, identifies the product they want to update the quantity for. The customer updates the quantity field for the product in the cart. The website updates the customer's shopping cart by changing the quantity of the selected product.
Precondition	The customer is logged in to their account on the pastry shop's website and has added at least one item to their shopping cart.
Alternatives	The website may limit the quantity of a product that a customer can order based on inventory levels or other factors.
Post Condition	The quantity of the selected product in the customer's shopping cart on the pastry shop's website has been successfully updated. The customer can continue browsing and adding more items to their cart or proceed to checkout to complete the purchase.

UC_24 – US_24 – Update product's quantity on cart

Name	Contact us
Summary	This use case involves a customer sending a message to the pastry shop through the "Contact Us" feature on their website.
Actor	Customer
Description	The customer navigates to the "Contact Us" page on the pastry shop's website. There are shown every way of contacting the pastry shop.
Precondition	The customer is on the pastry shop's website and has accessed the "Contact Us" page.
Alternatives	The website may offer alternative contact methods, such as a phone number or physical address.
Post Condition	The pastry shop can then review the messages from the various ways of contact and respond accordingly, either by email or using an alternative contact method.

UC_25 – US_25– Contact us

Name	Leave feedback
Summary	This use case involves a customer leaving feedback for the pastry shop through the "Leave Feedback" feature on their website.
Actor	Customer
Description	The customer navigates to the "Leave Feedback" page on the pastry shop's website, fills out the feedback form with their name, email address, feedback type and their message. The customer submits the form. The website sends the feedback to the pastry shop's and stores it in a database.
Precondition	The customer is on the pastry shop's website and has accessed the "Leave Feedback" page.
Alternatives	The website may offer alternative feedback methods, such as a phone number for feedback.
Post Condition	The pastry shop can then review the feedback. If the feedback is positive, the pastry shop may use it for marketing purposes.

UC_26 – US_26– Leave feedback

Name	View product's details
Summary	This use case involves a customer viewing the details of a specific pastry product on the pastry shop's website.
Actor	Customer
Description	<p>The customer navigates to the product page that contains the desired pastry product, clicks on the specific pastry product to access its detail page. The website displays the product detail page, which includes information such as the product name, description, price, ingredients, and any additional information the pastry shop wants to provide.</p> <p>The customer can scroll through the detail page and view all the relevant information about the product.</p>
Precondition	The customer is on the pastry shop's website and has accessed the product page that contains the desired pastry product.
Alternatives	The website may include images of the product to give the customer a better idea of its appearance.
Post Condition	The customer has successfully viewed the details of the desired pastry product on the pastry shop's website. The customer can choose to add the product to their cart or navigate back to the product page to view other products.

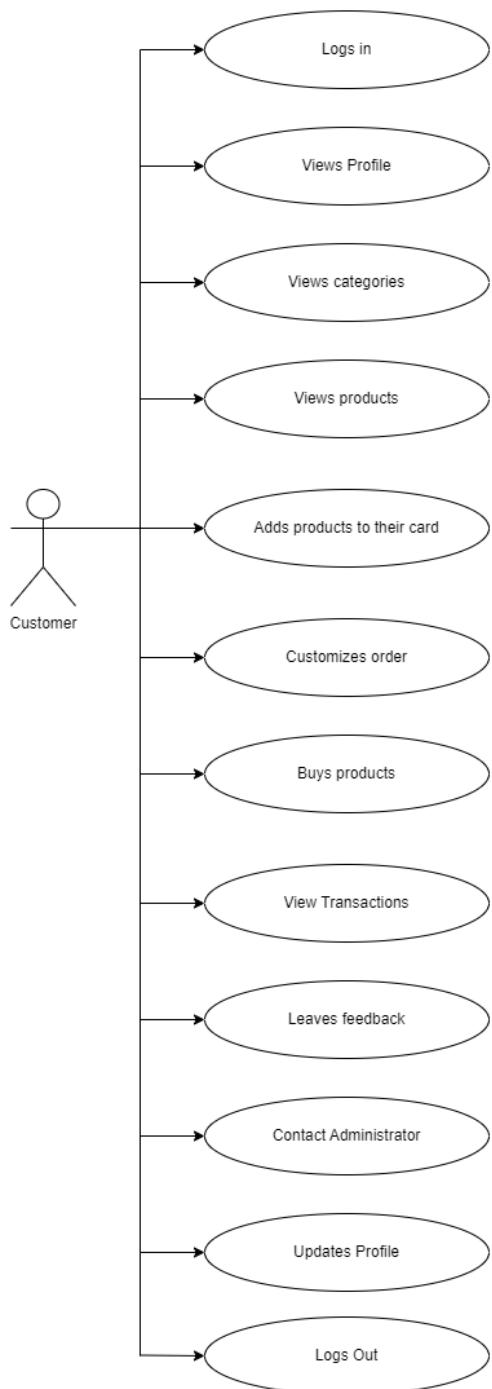
UC_27 – US_27– View product's details

Name	User log out
Summary	This use case involves a user logging out of their account on the pastry shop's website.
Actor	User (Customer, Admin, Supplier)
Description	The user navigates to the account or profile page on the website. The website displays the user's account information. The user clicks on the "Log Out" button. The website logs the user out of their account and redirects them to the login or homepage.
Precondition	The user is currently logged in to their account on the pastry shop's website.
Alternatives	The website may redirect the user to a "Logged Out" page or display a message confirming that they have been logged out of their account.
Post Condition	The user has successfully logged out of their account on the pastry shop's website. The user is no longer able to access their account information or make purchases without logging back in.

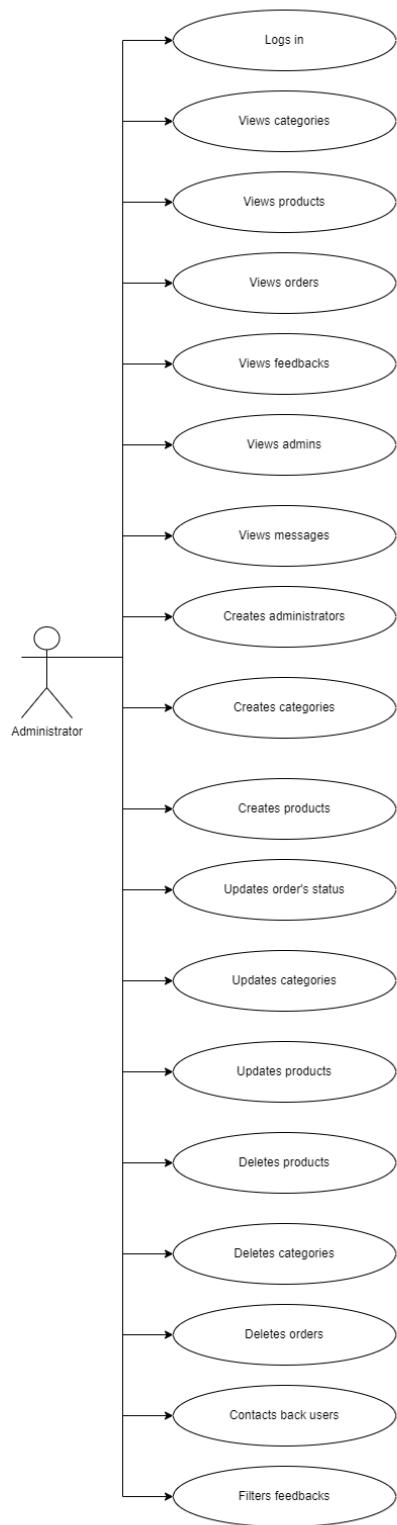
UC_28 – US_28– User log out

4.2 Behavioral Diagrams

4.2.1 Use Case Diagrams

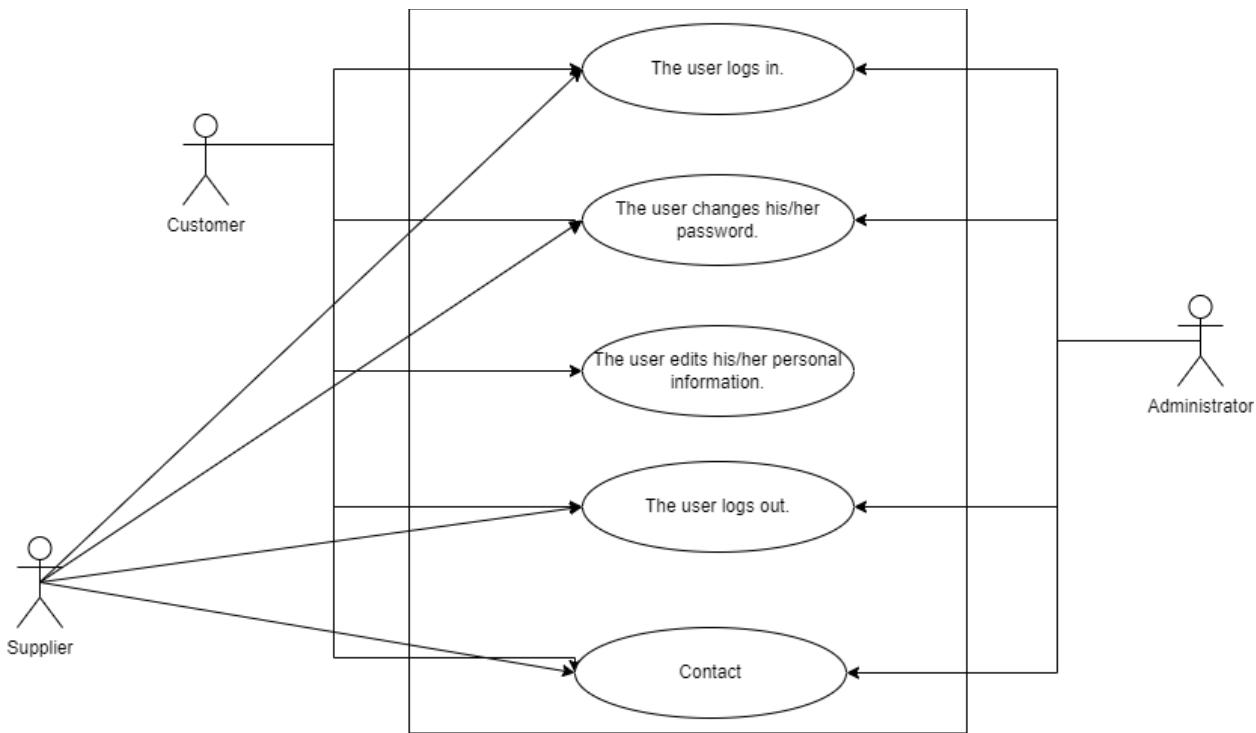


UC_01 - Customer

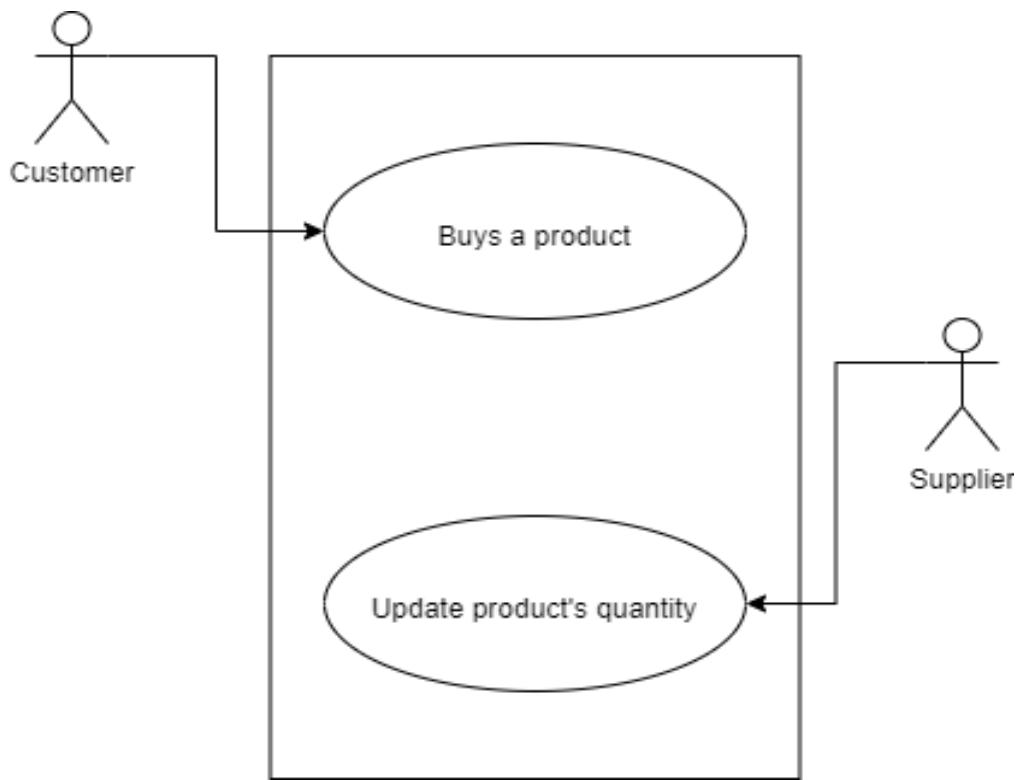


UC_02 Administrator

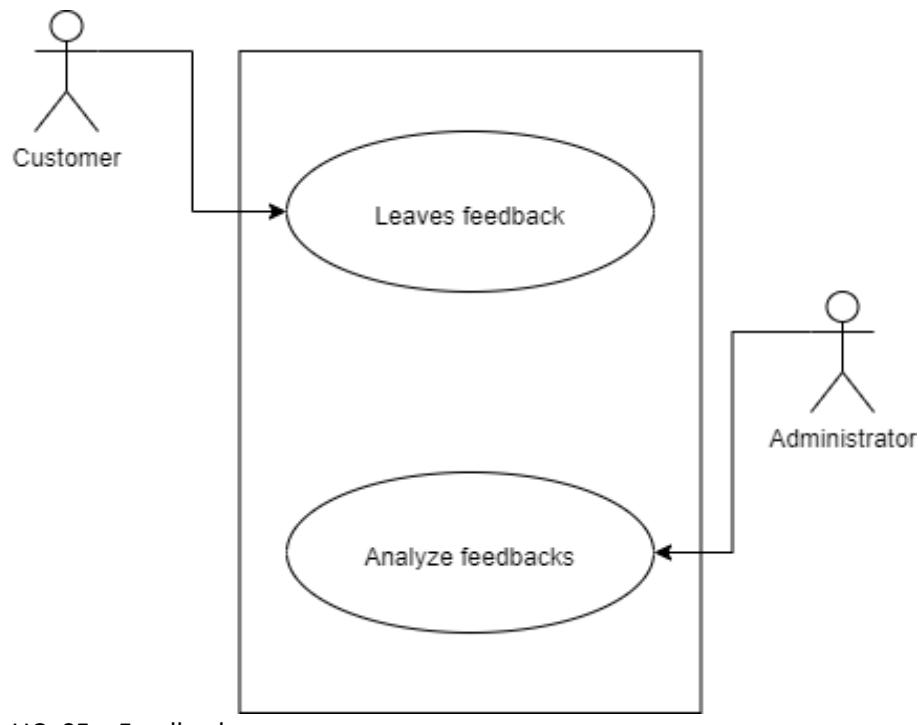
PMS Documentation



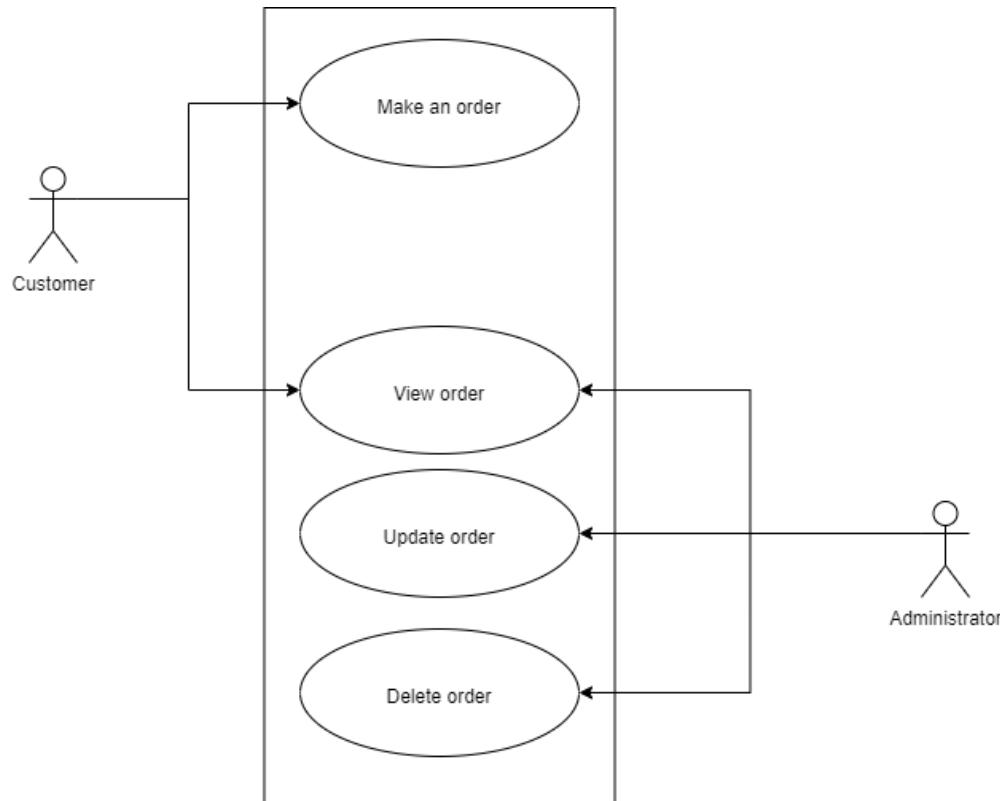
UC_03 – Basic Operations



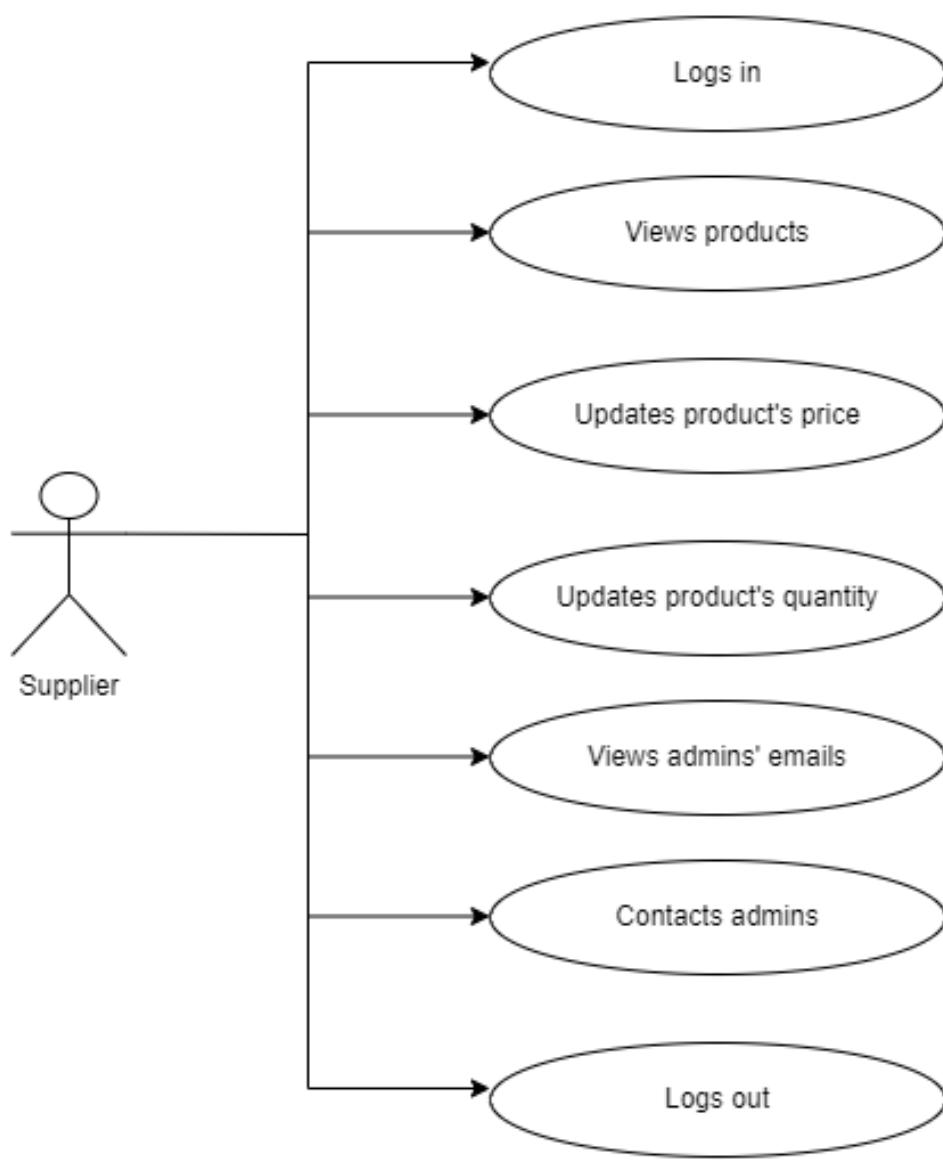
UC_04 – Buy a product



UC_05 – Feedbacks

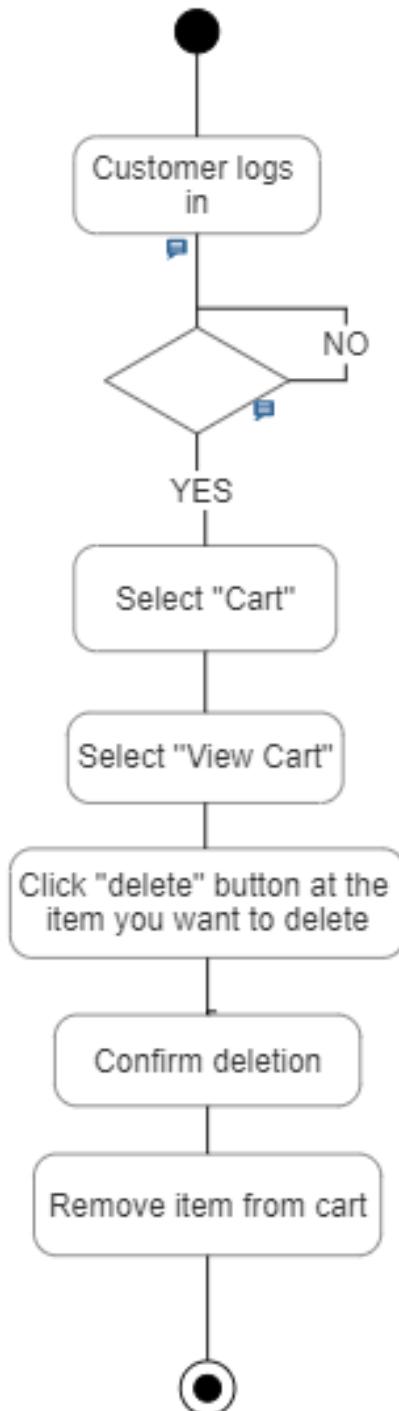


UC_06 Orders

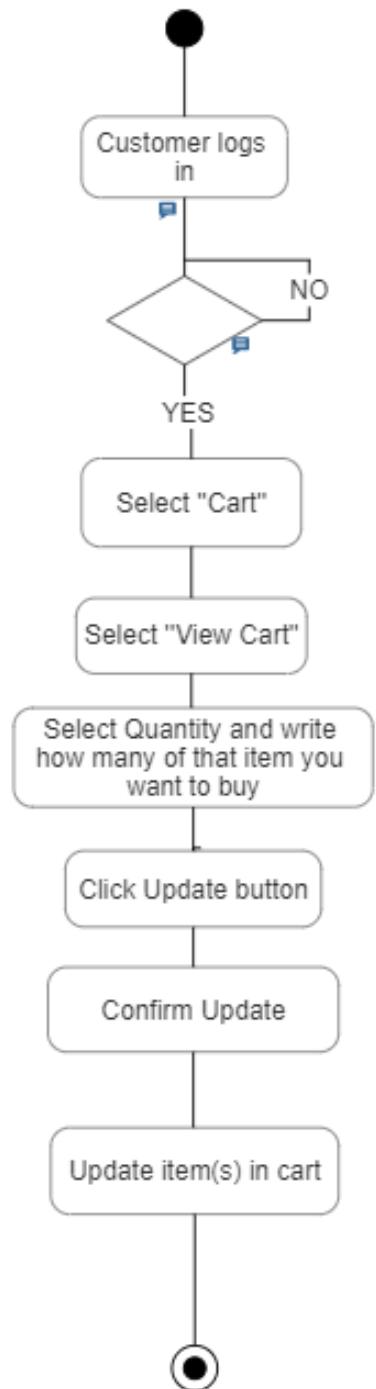


UC_07 Supplier

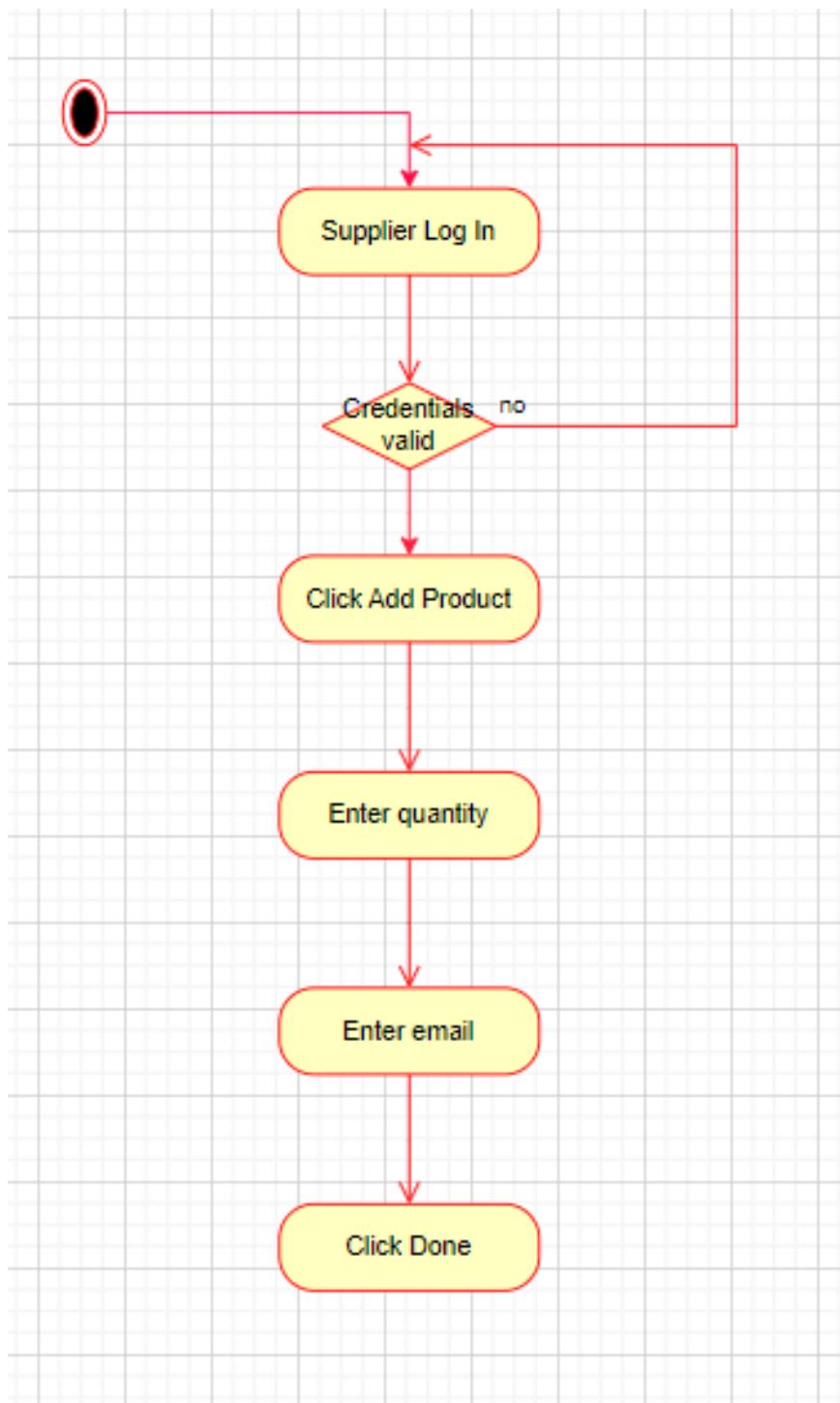
4.2.2 Activity Diagrams



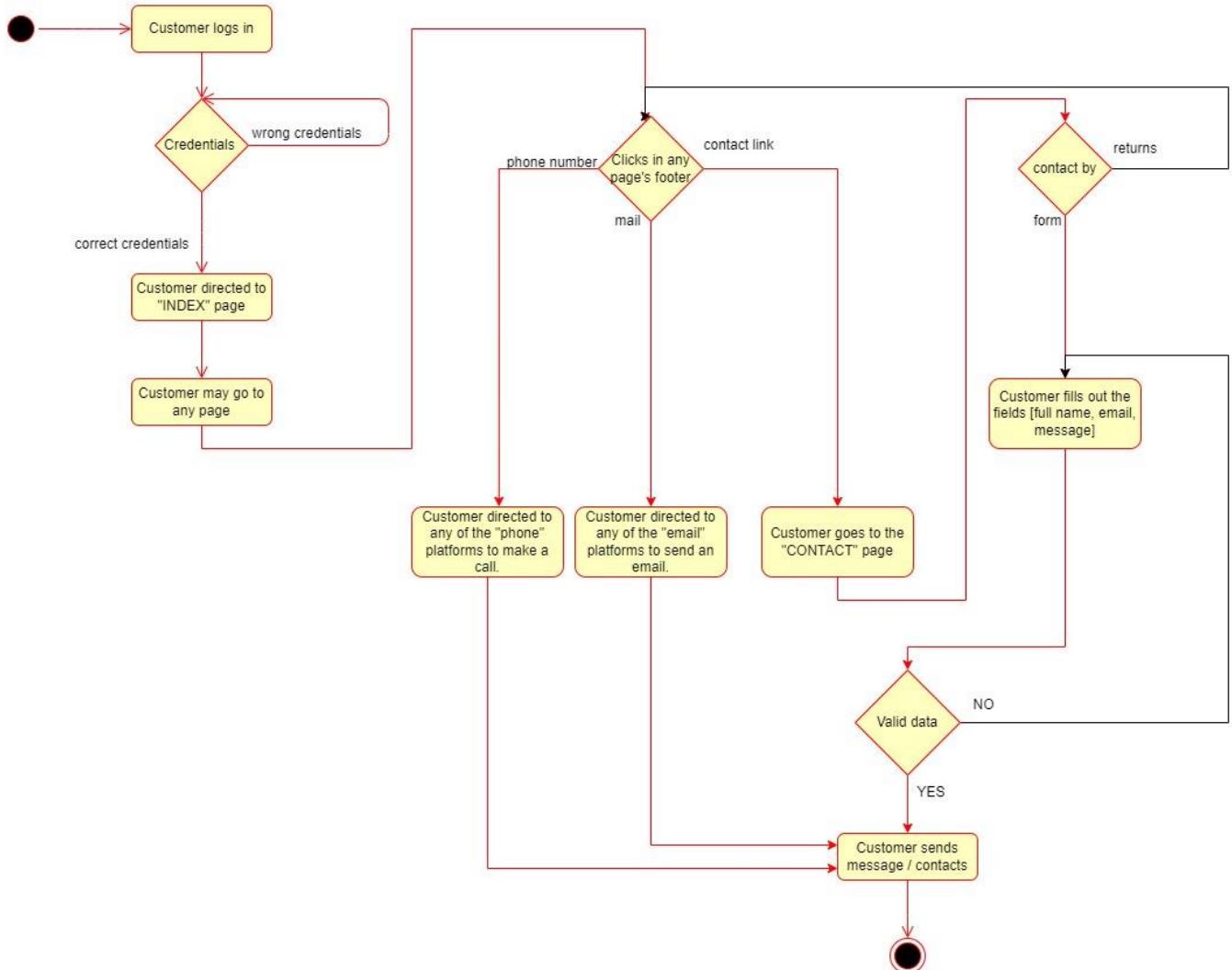
AD_01 Delete an item from cart

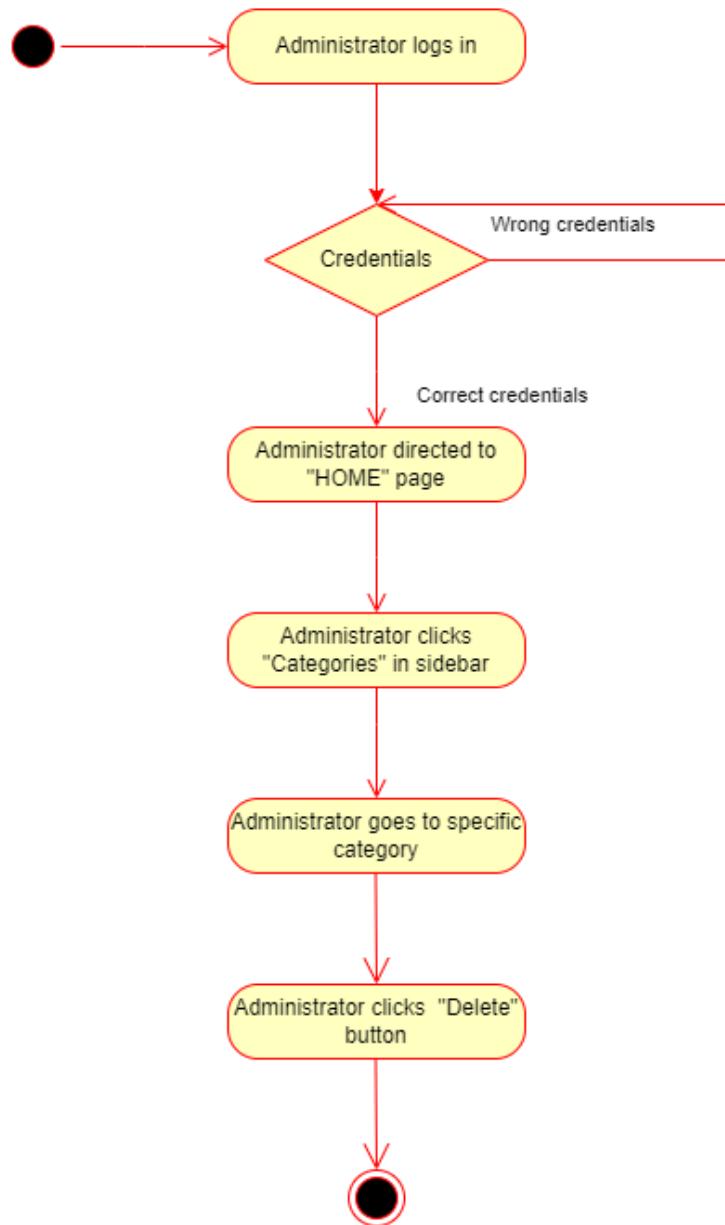


AD_02 Update quantity of product

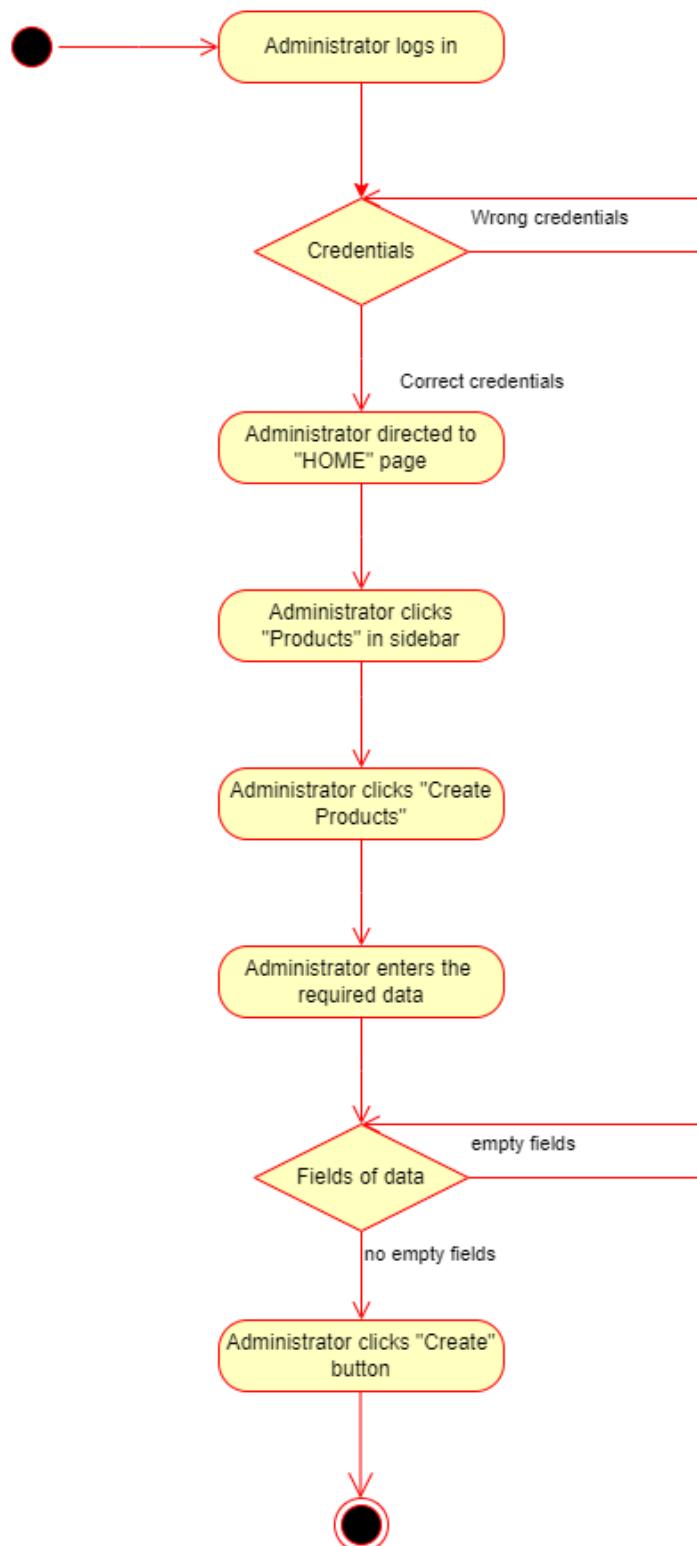


AD_03 Add new product

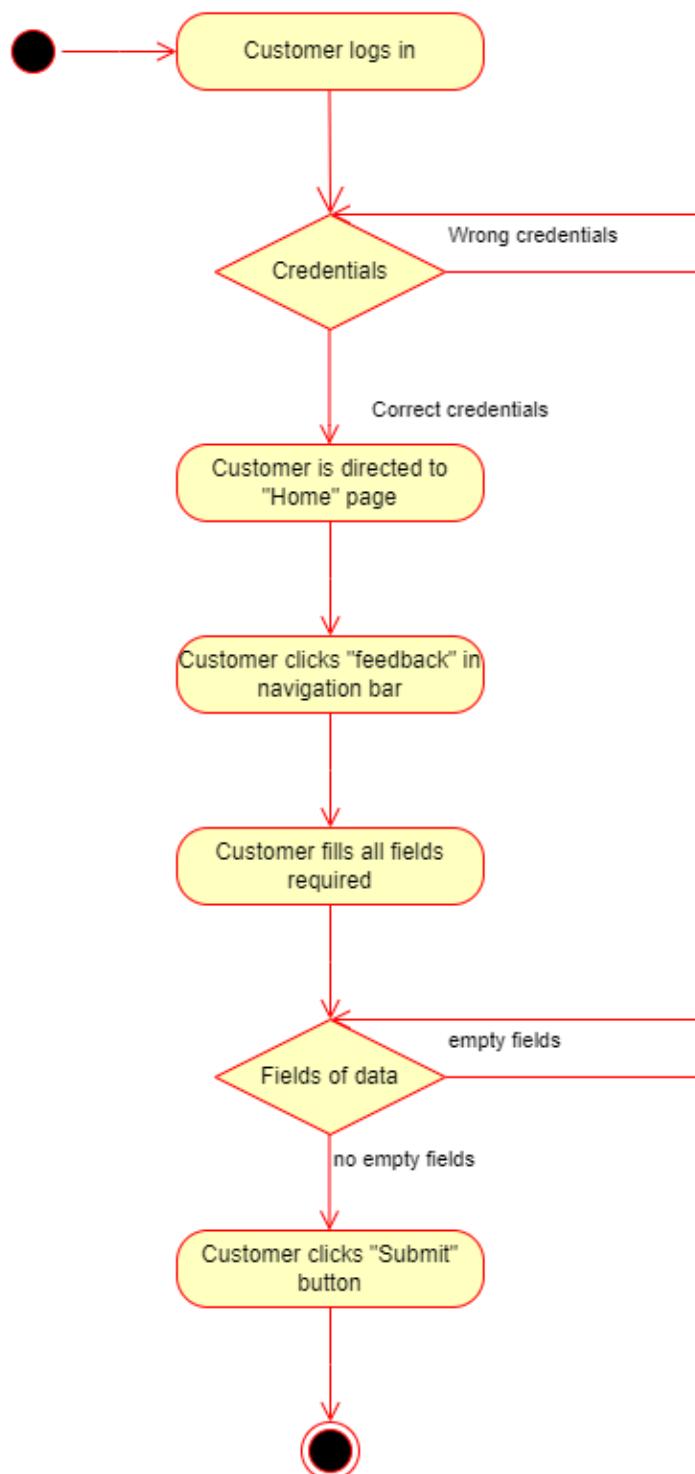




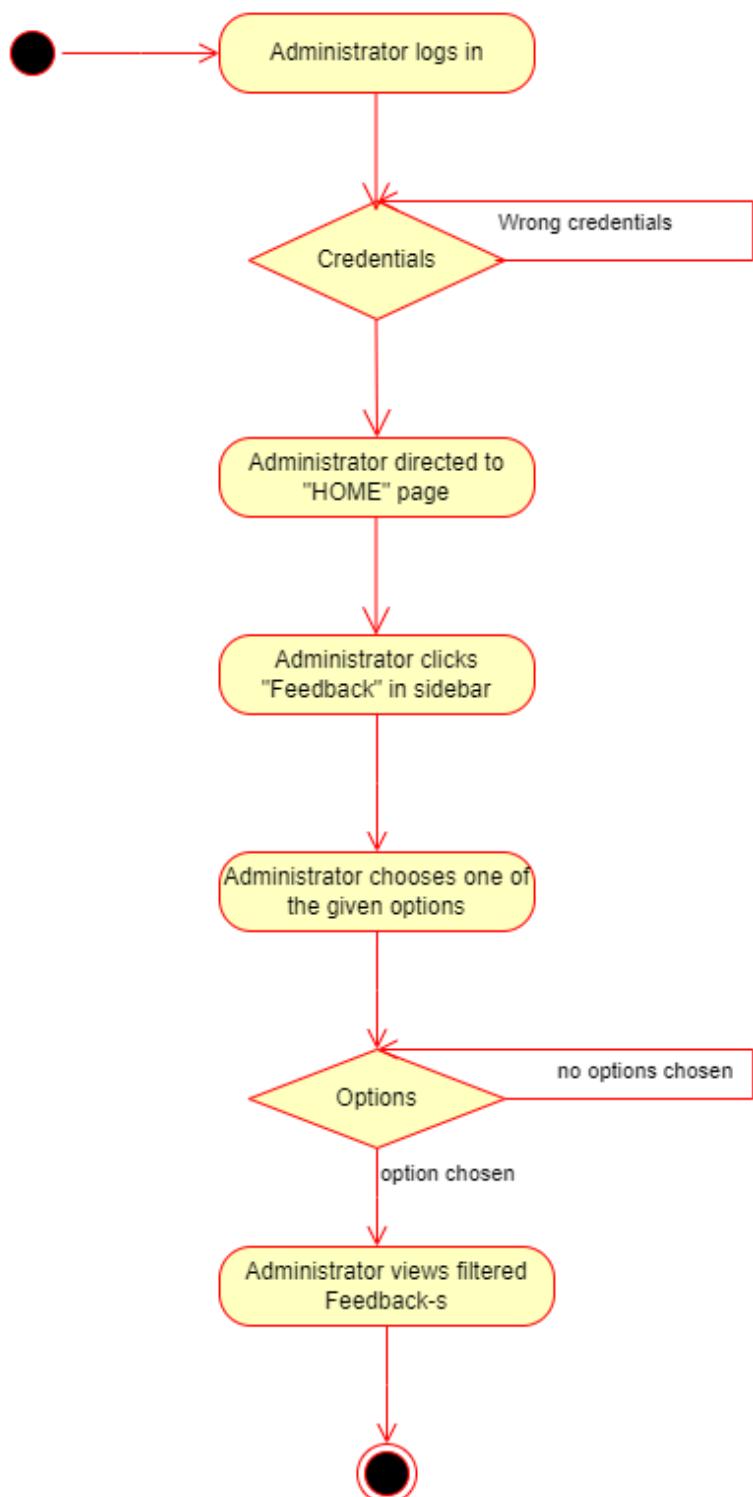
AD_05 Delete category



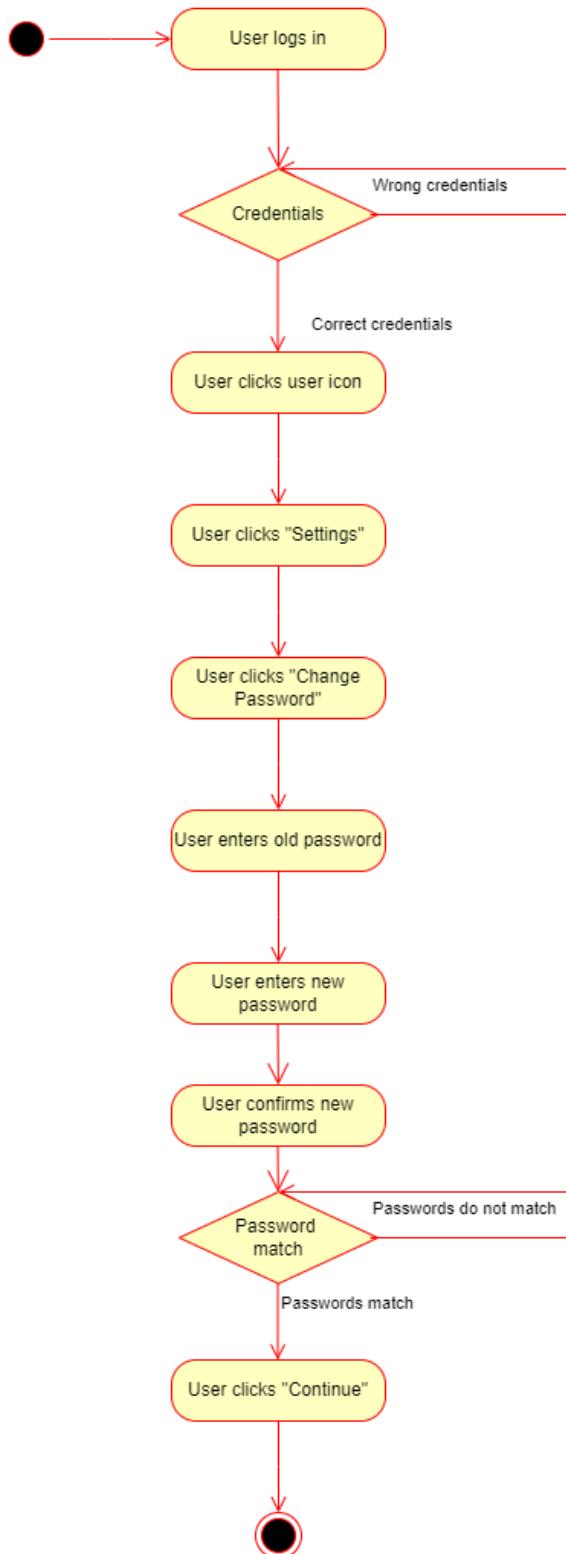
AD_06 Create product



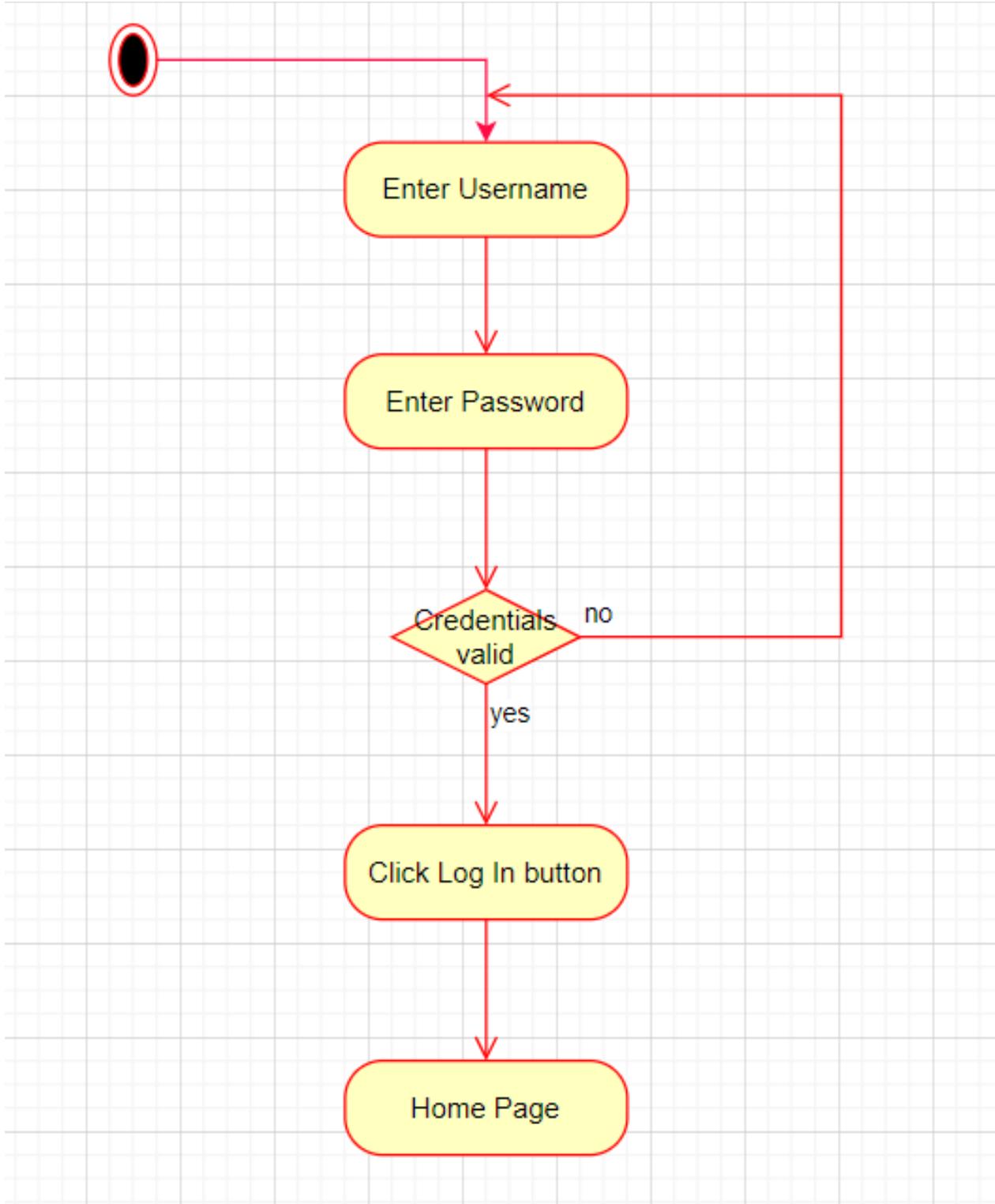
AD_07 Leave feedback



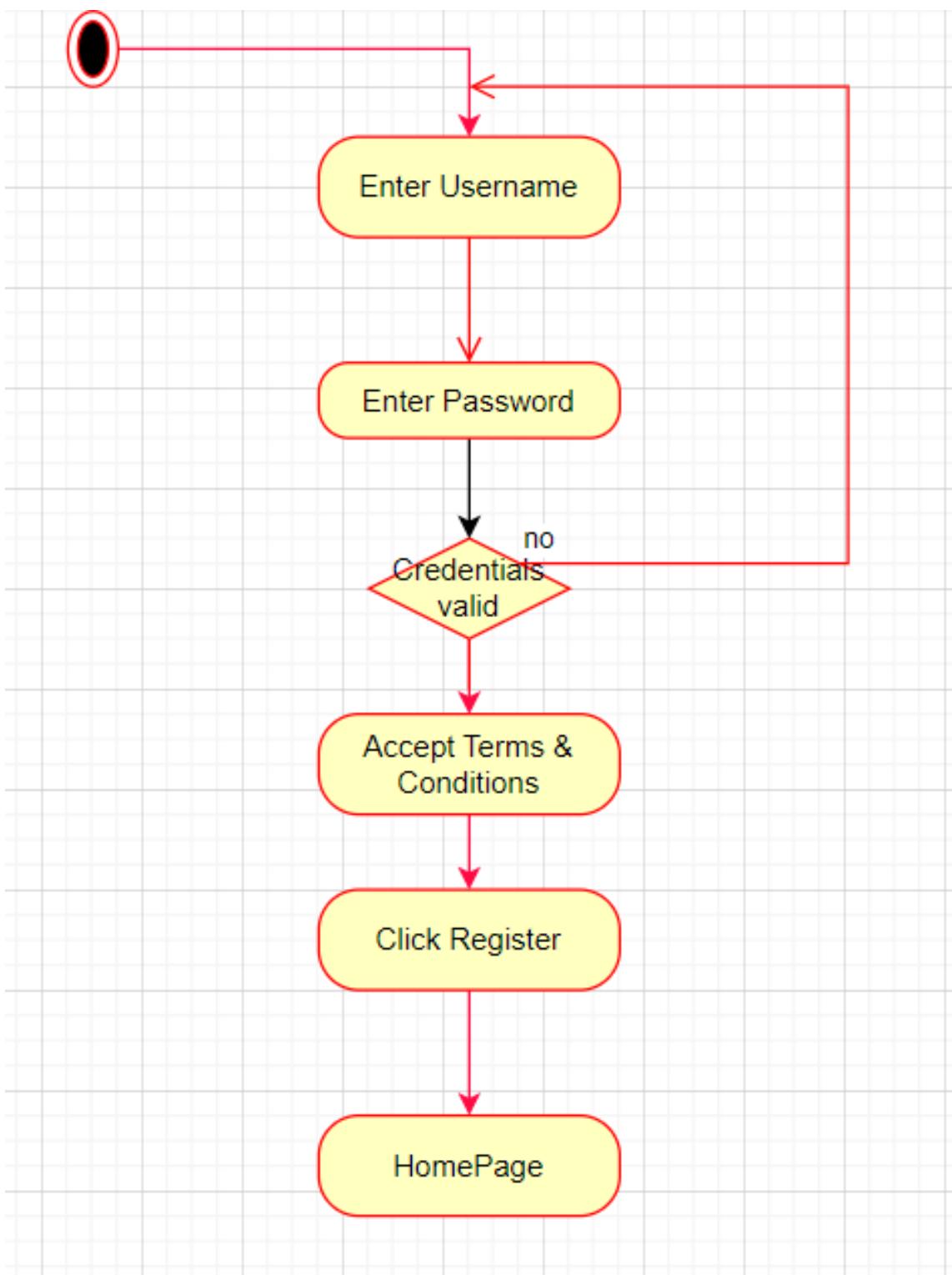
AD_08 View feedback



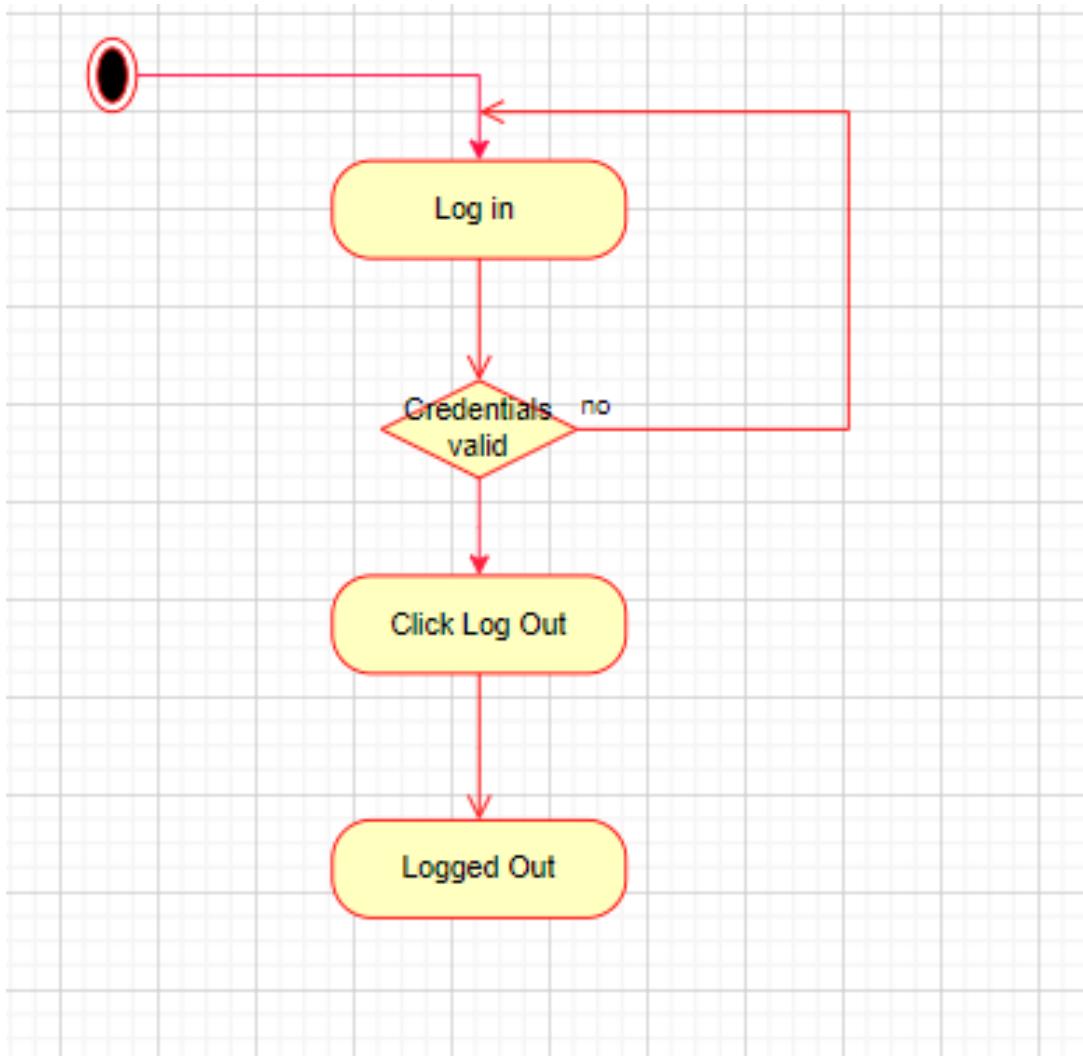
AD_09 Change Password



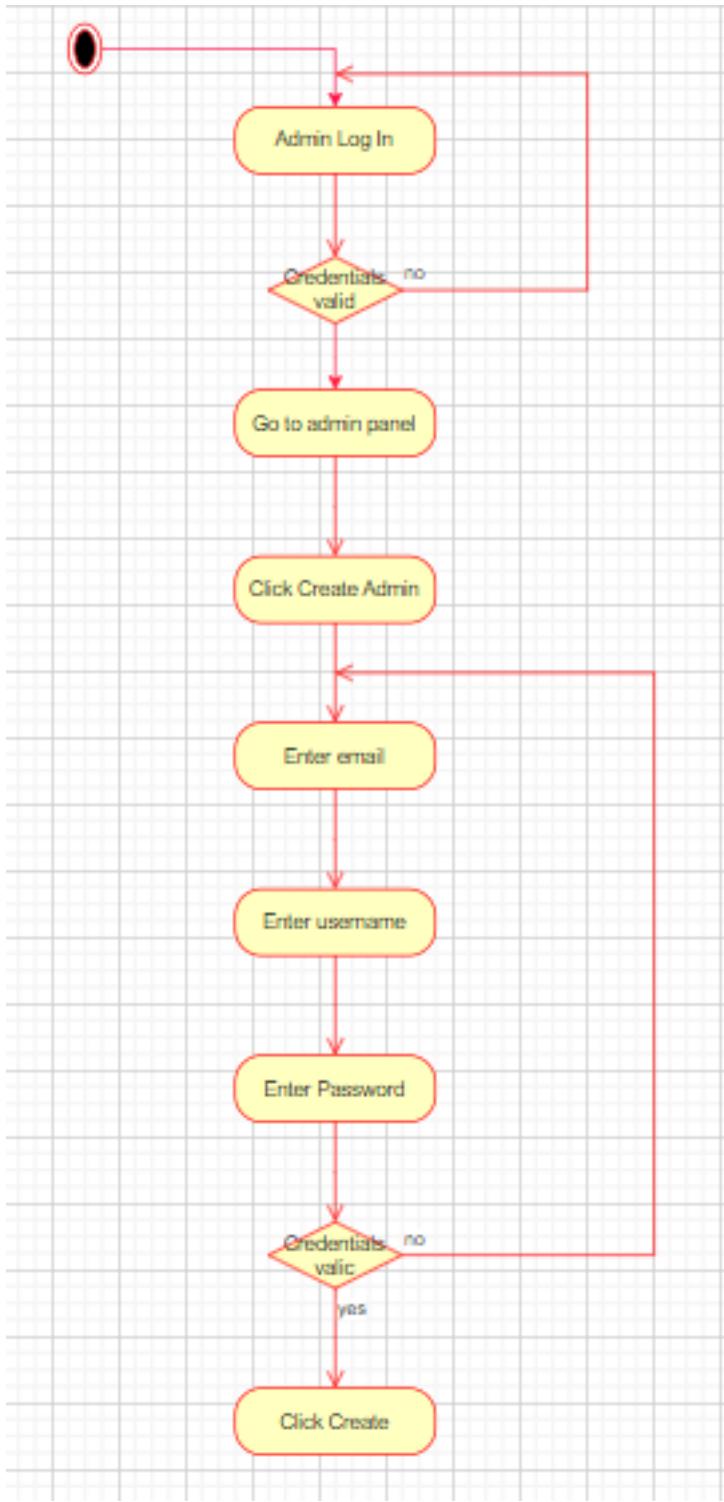
AD_10 Log in



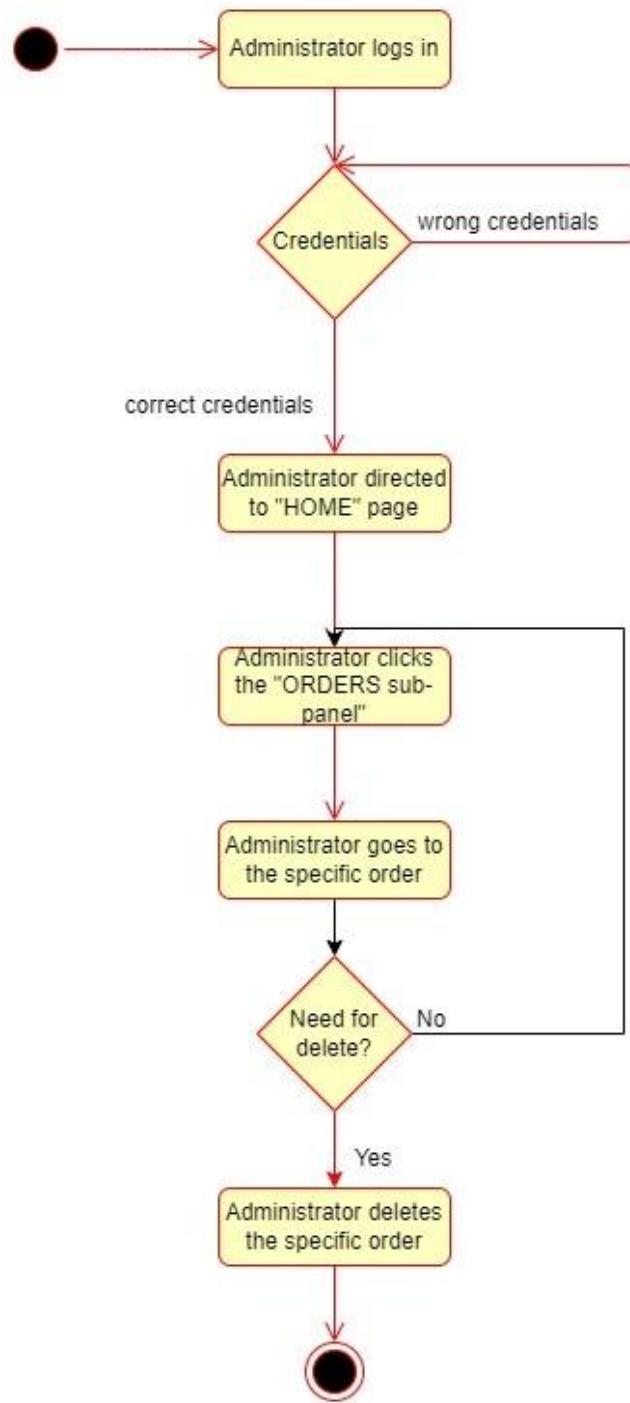
AD_11 Register



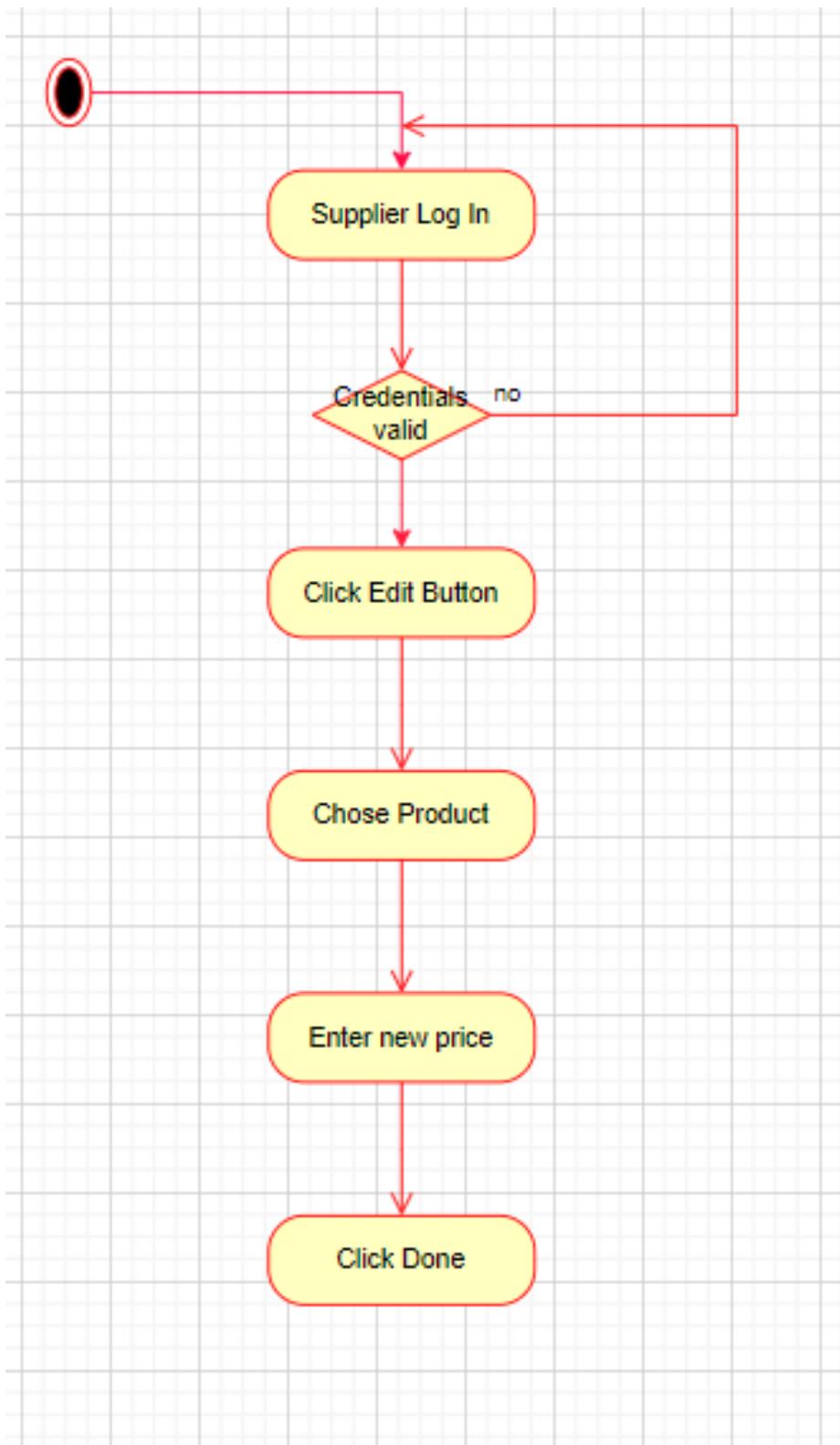
AD_12 Log Out



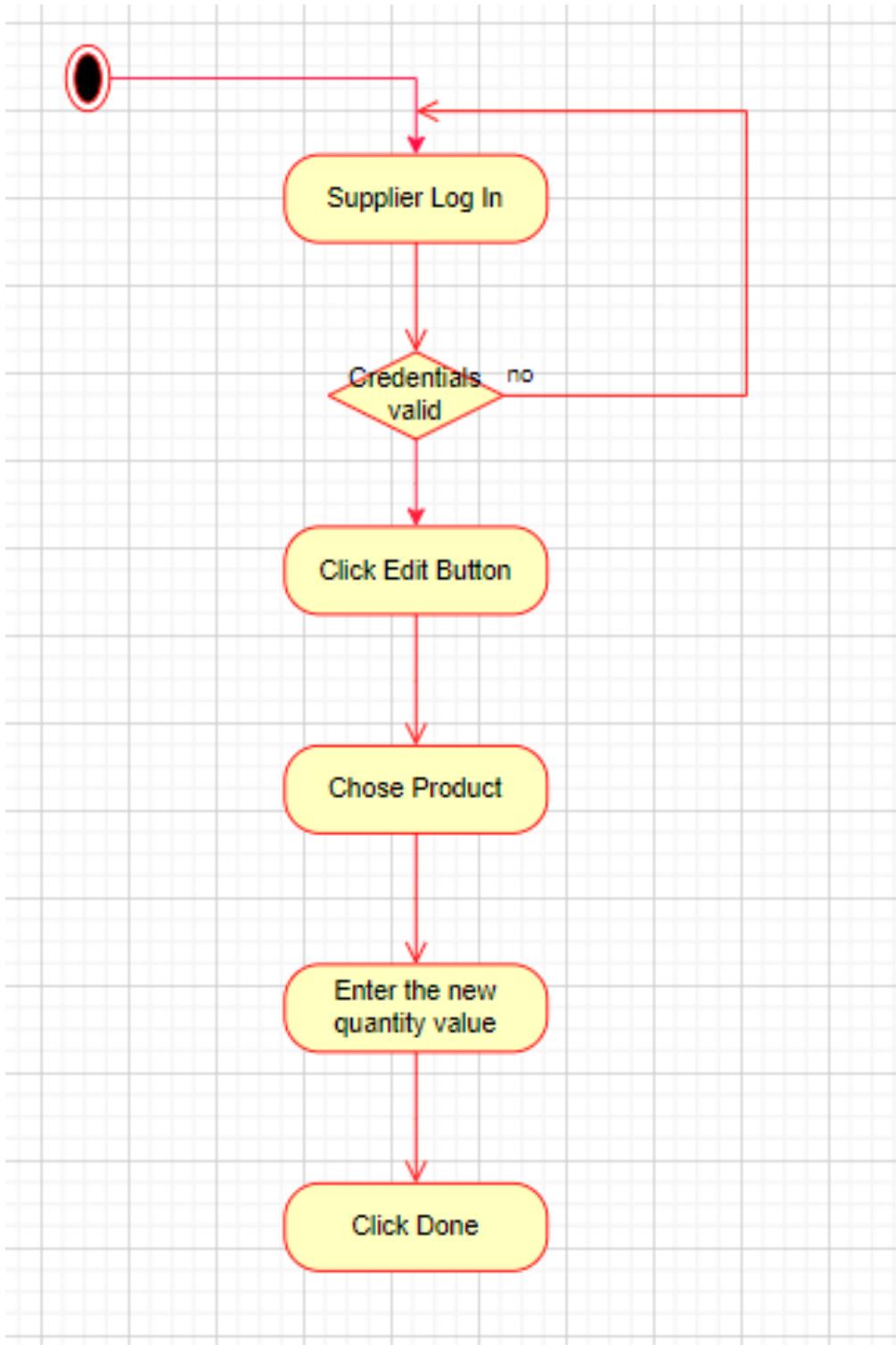
AD_13 Admin Register



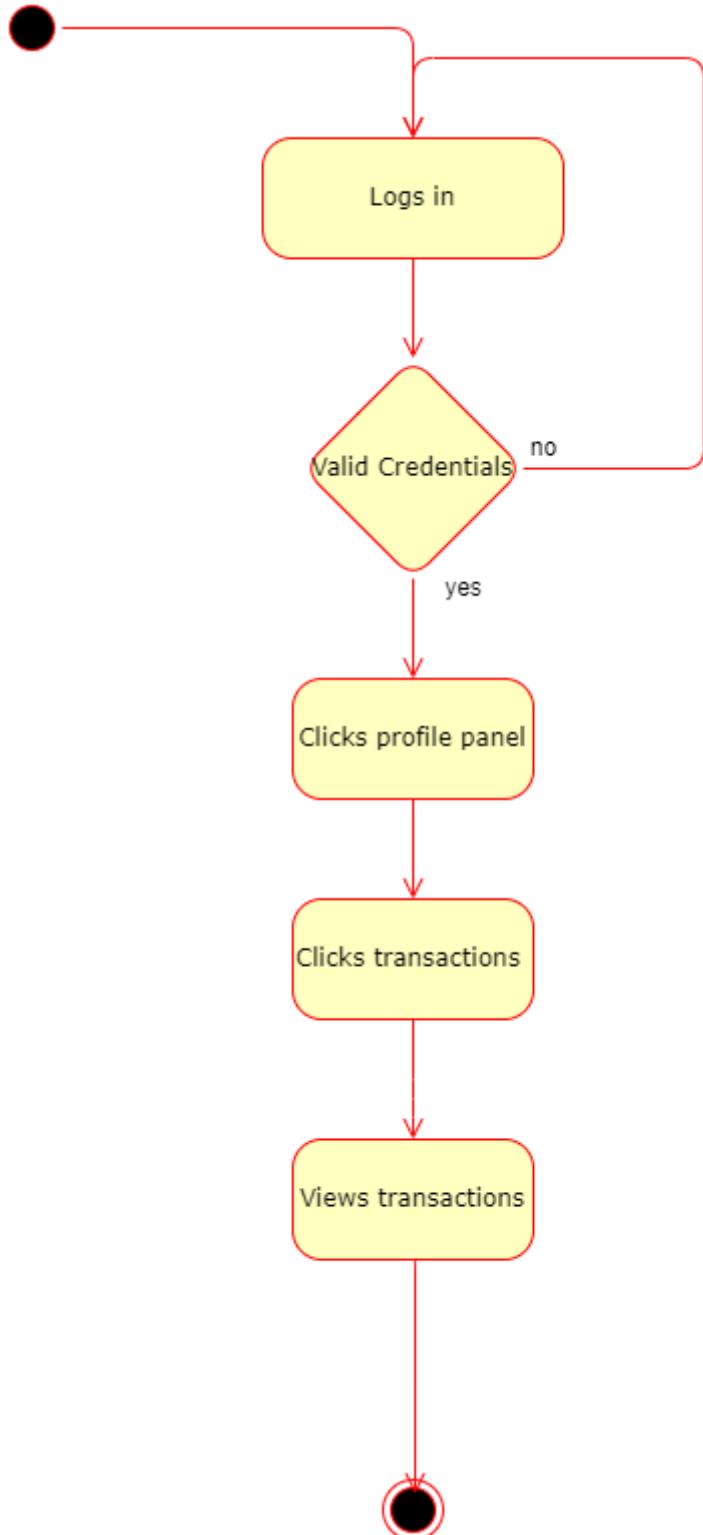
AD_14 Deletes order



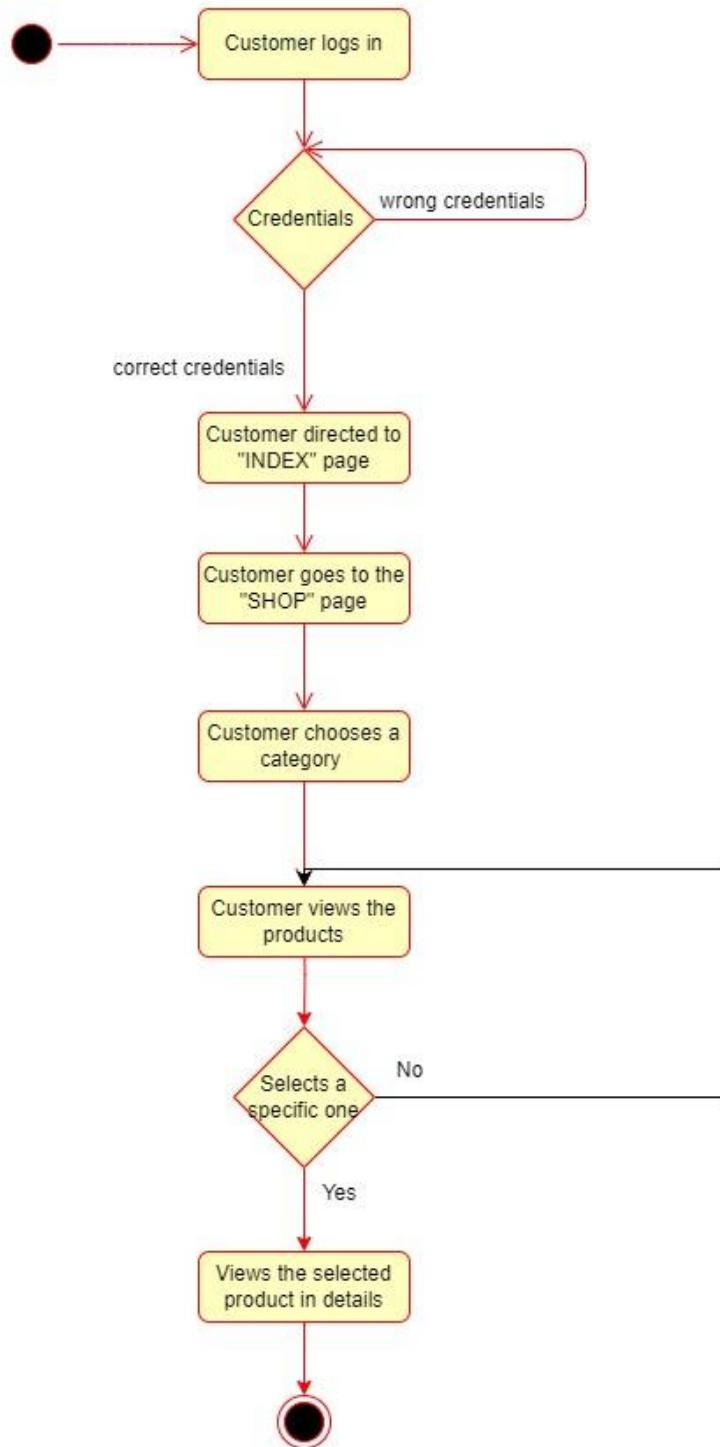
AD_15 Update price



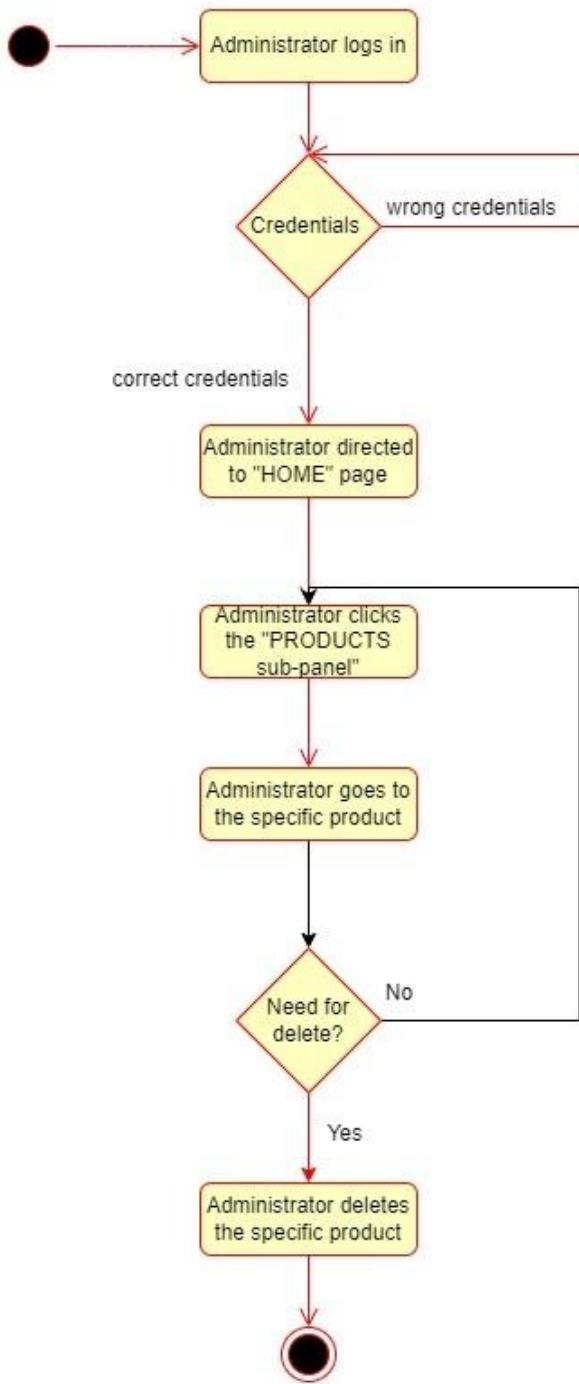
AD_16 Update quantity



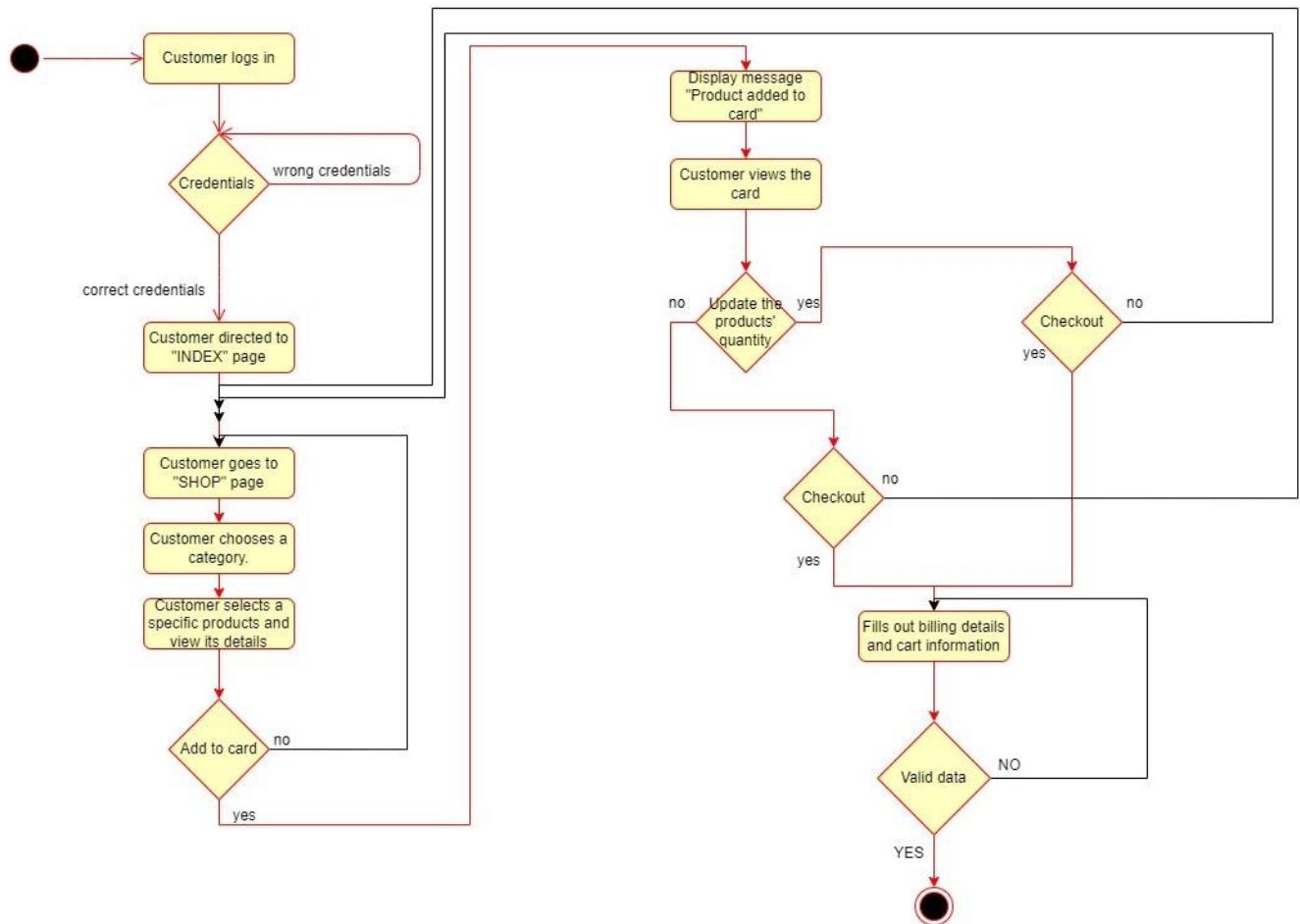
AD_17 Customer views transaction history



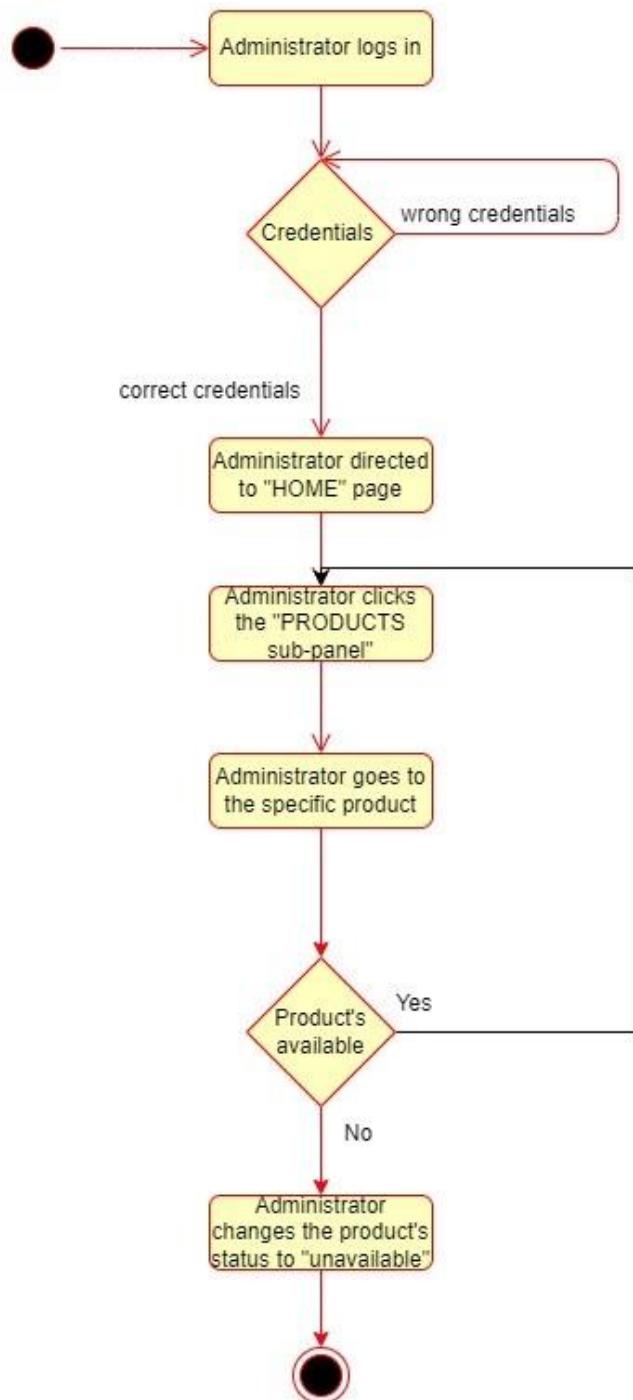
AD_18 View product's details



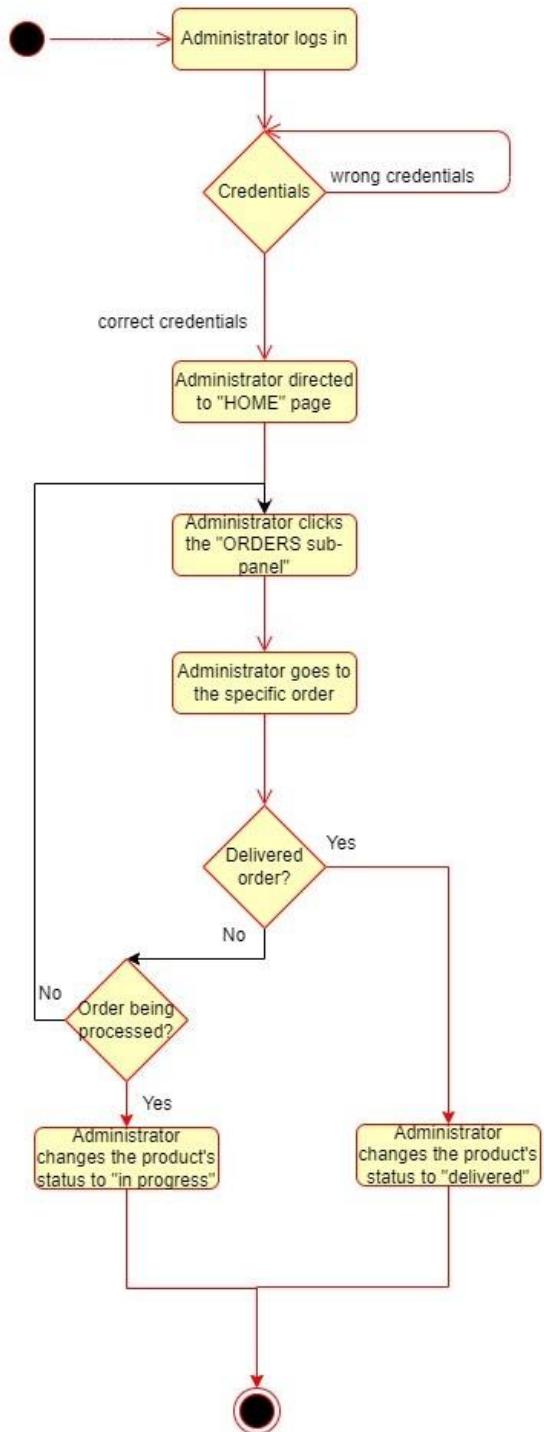
AD_19 Deletes product



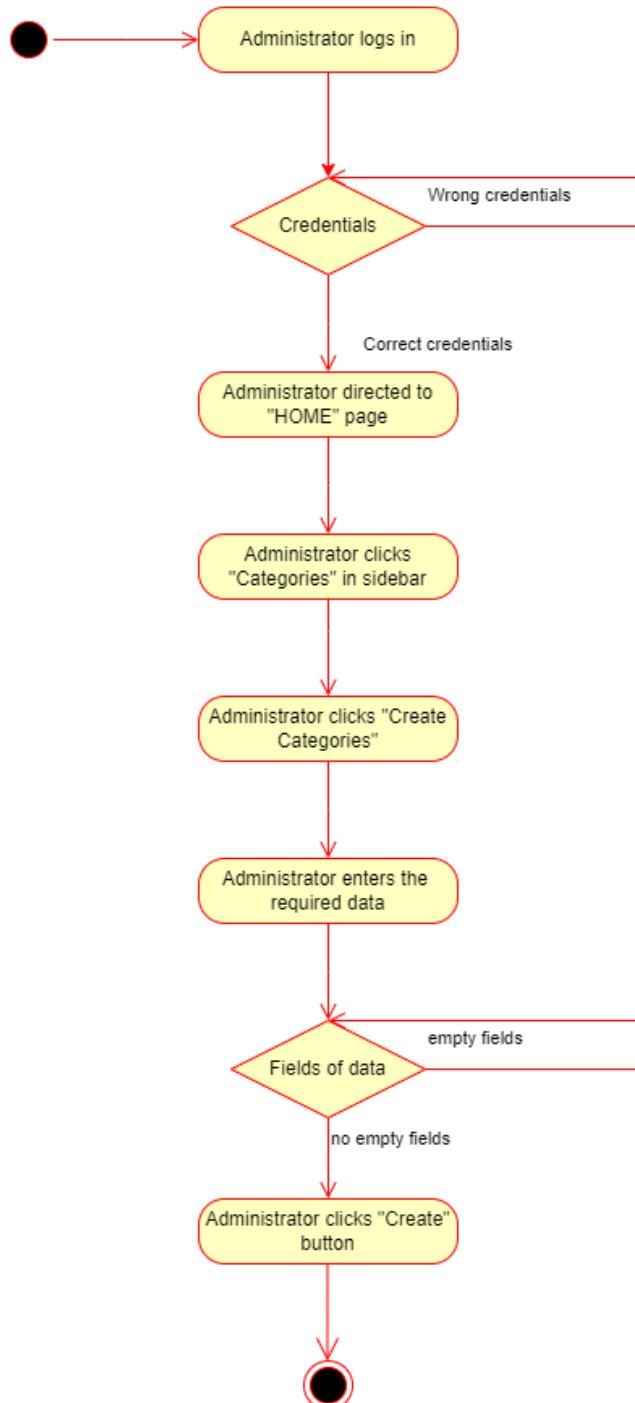
AD_20 Buy a product



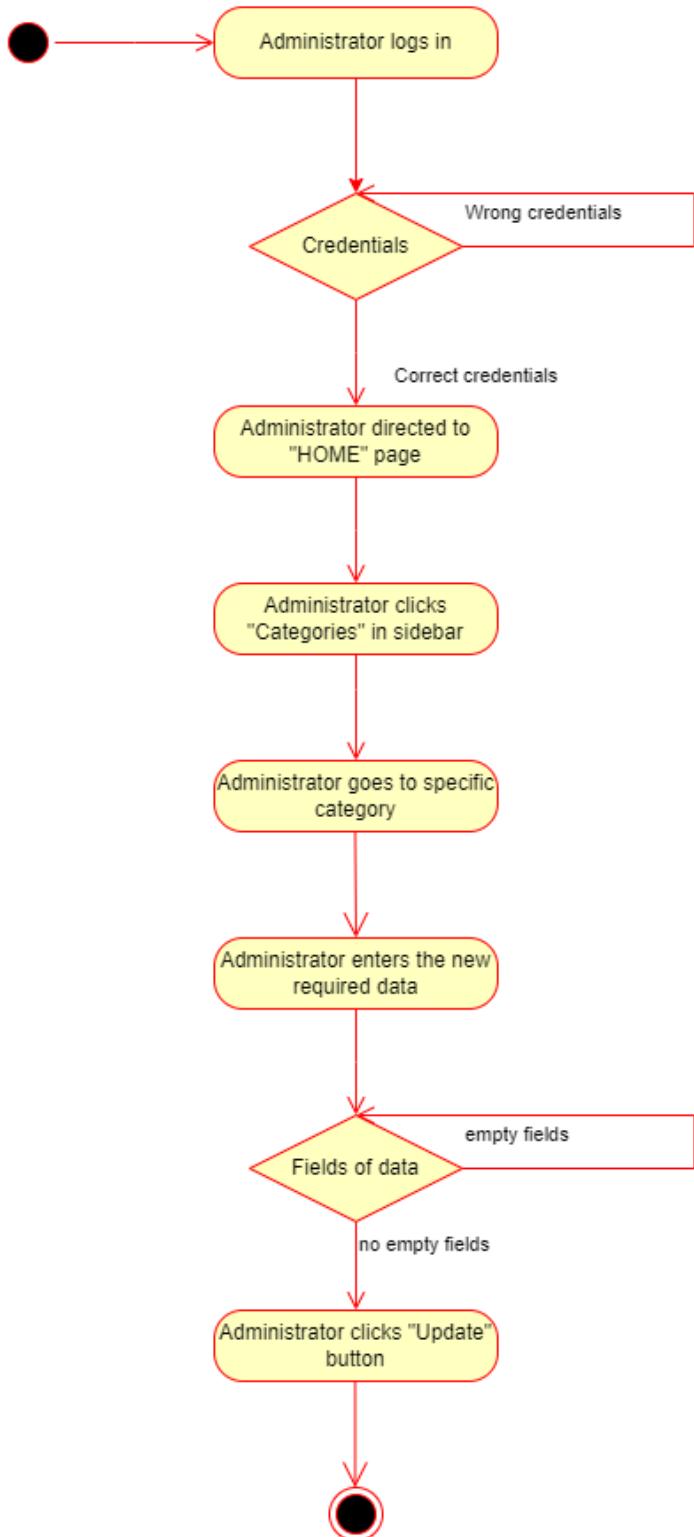
AD_21 Change product's status



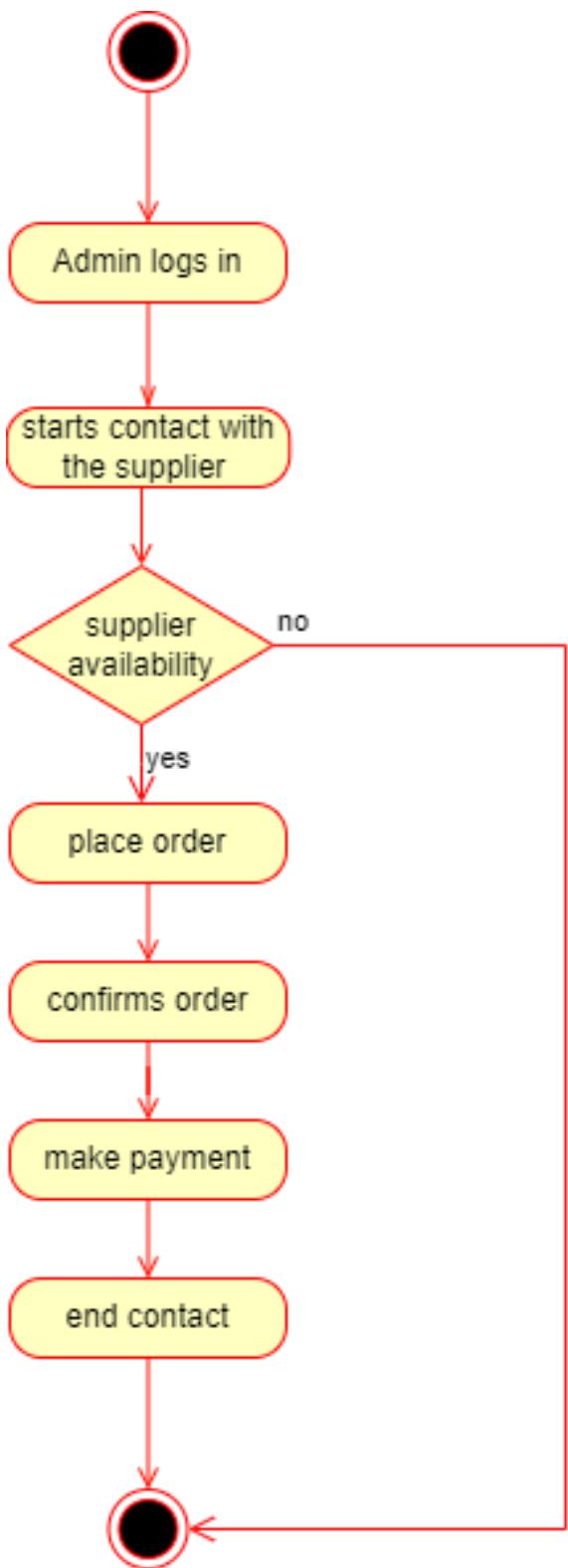
AD_22 Update Order status



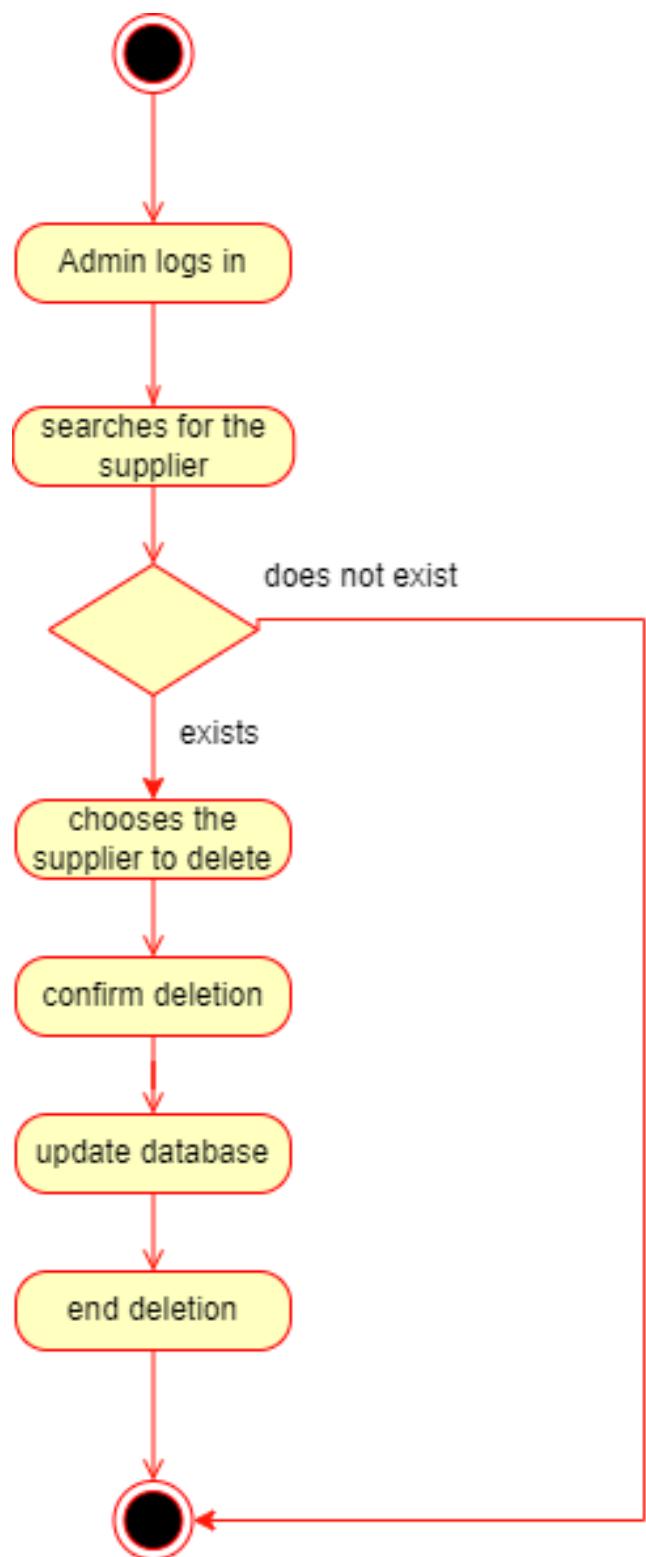
AD_23 Create category



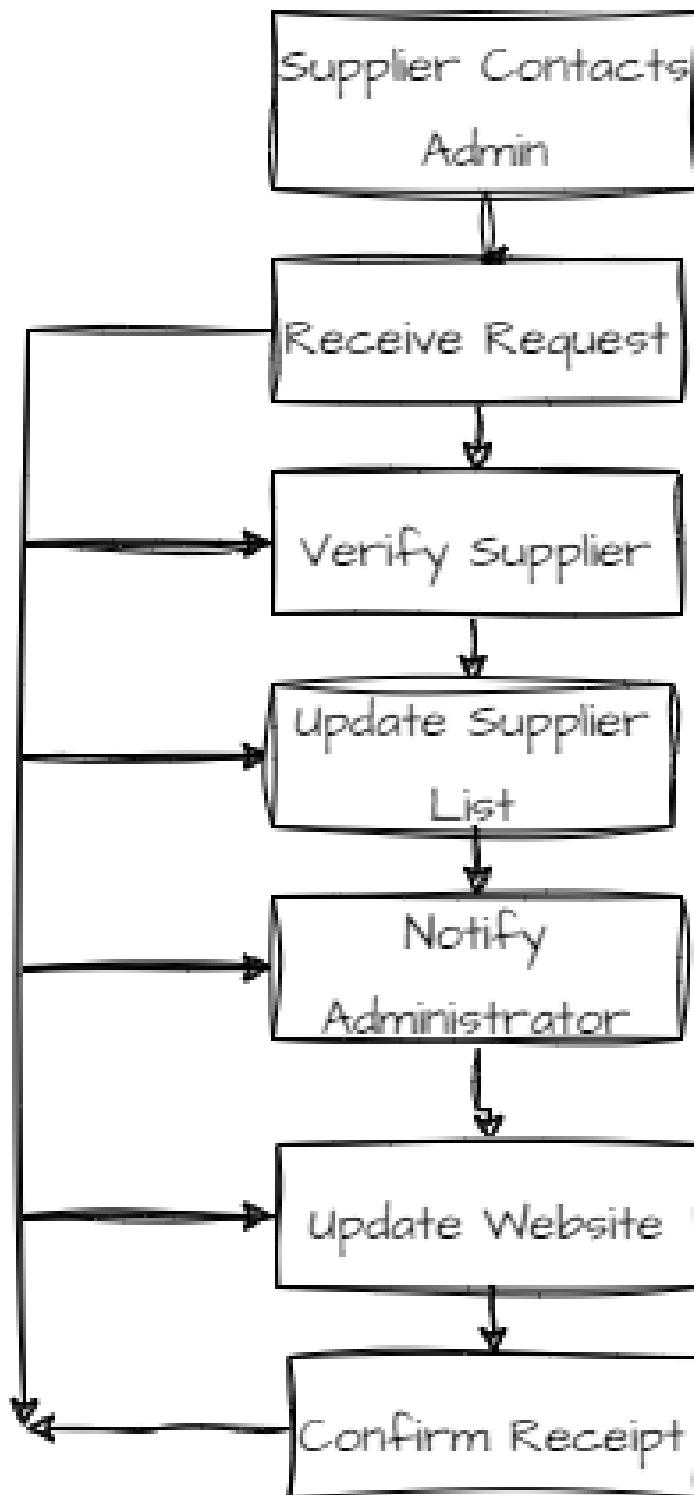
AD_24 Update category



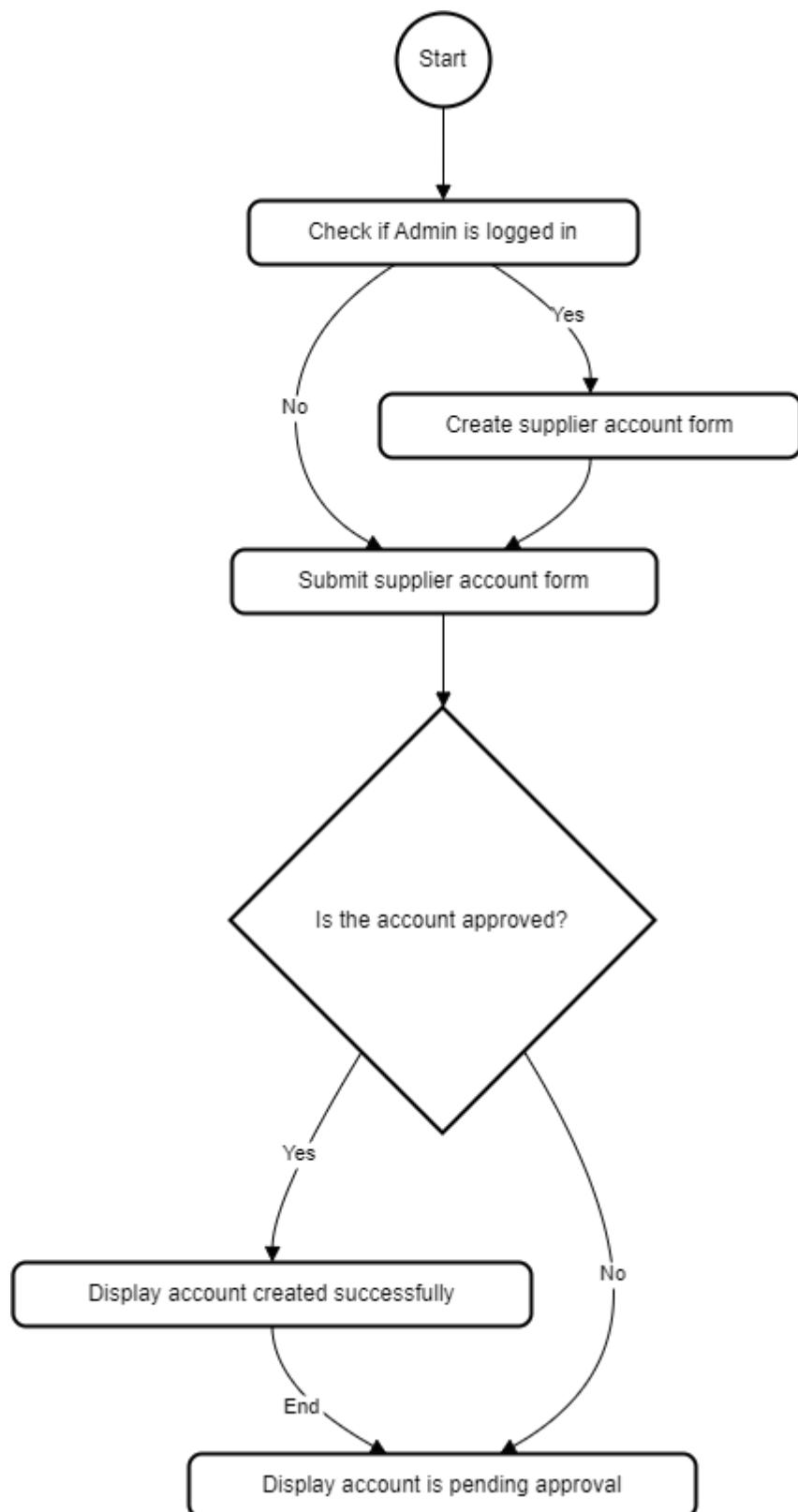
AD_25 Administrator contacts supplier



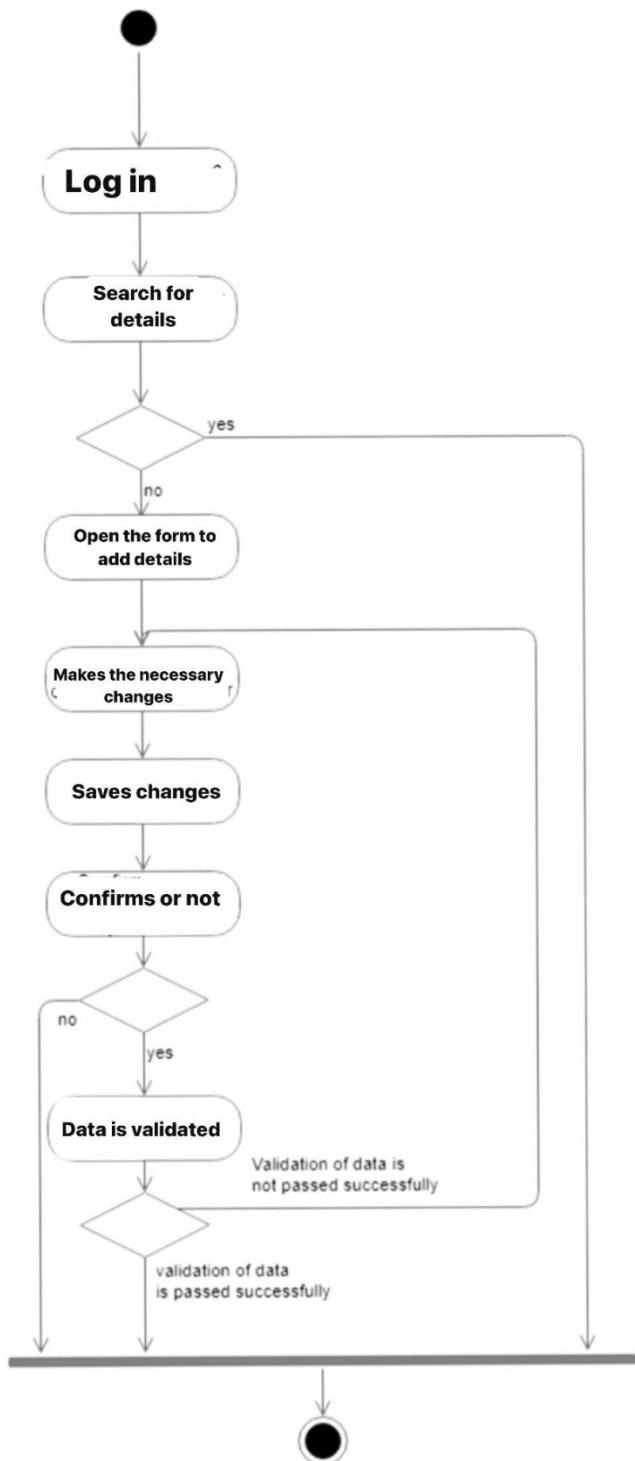
AD_26 Admin deletes a supplier account



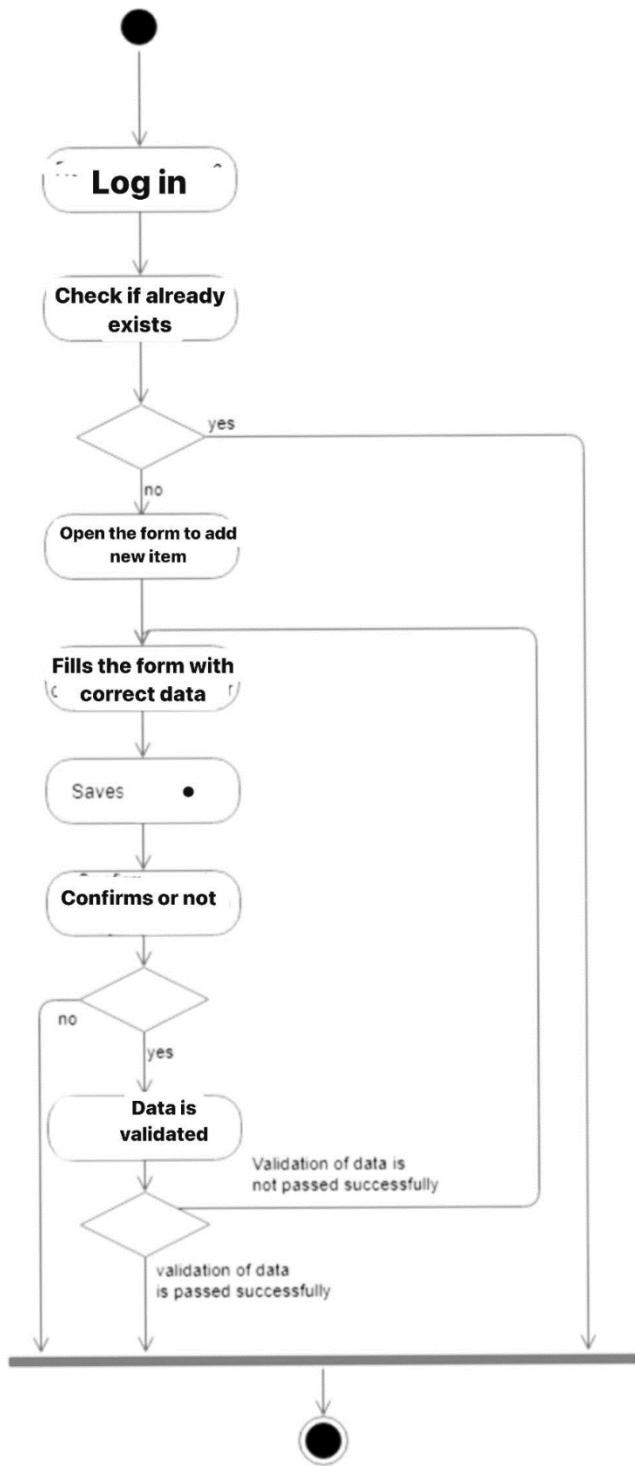
AD_27 Supplier contacts administrator



AD_28 Admin creates supplier's account

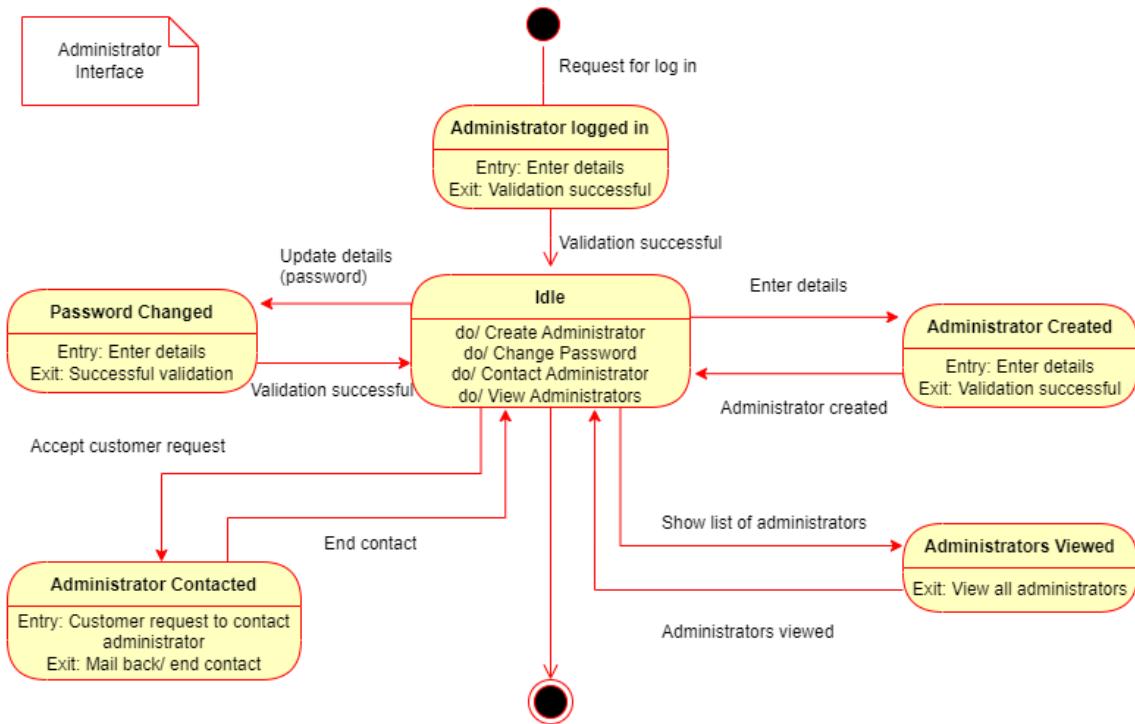


AD_29 Customer adds item to cart

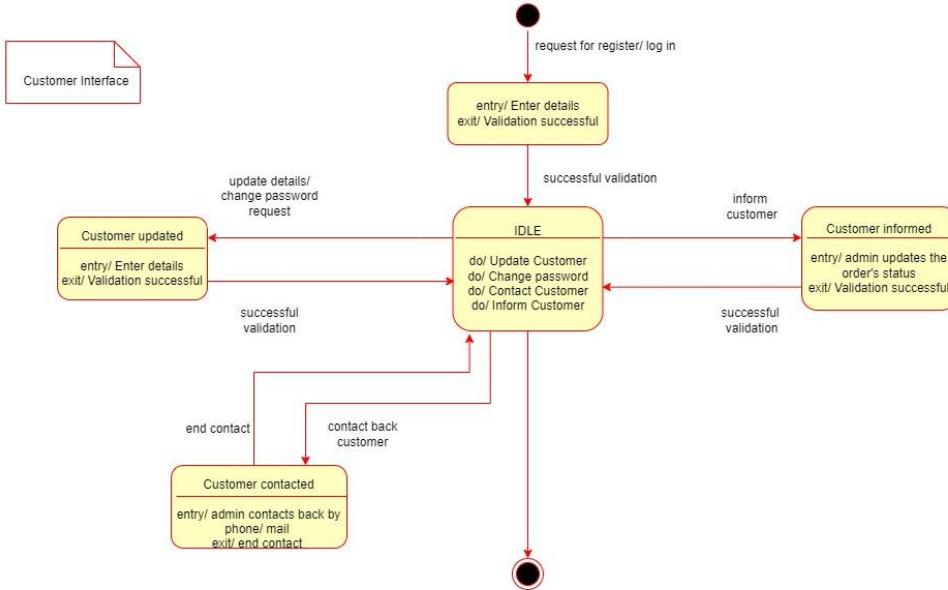


AD_30 Customer edits their details

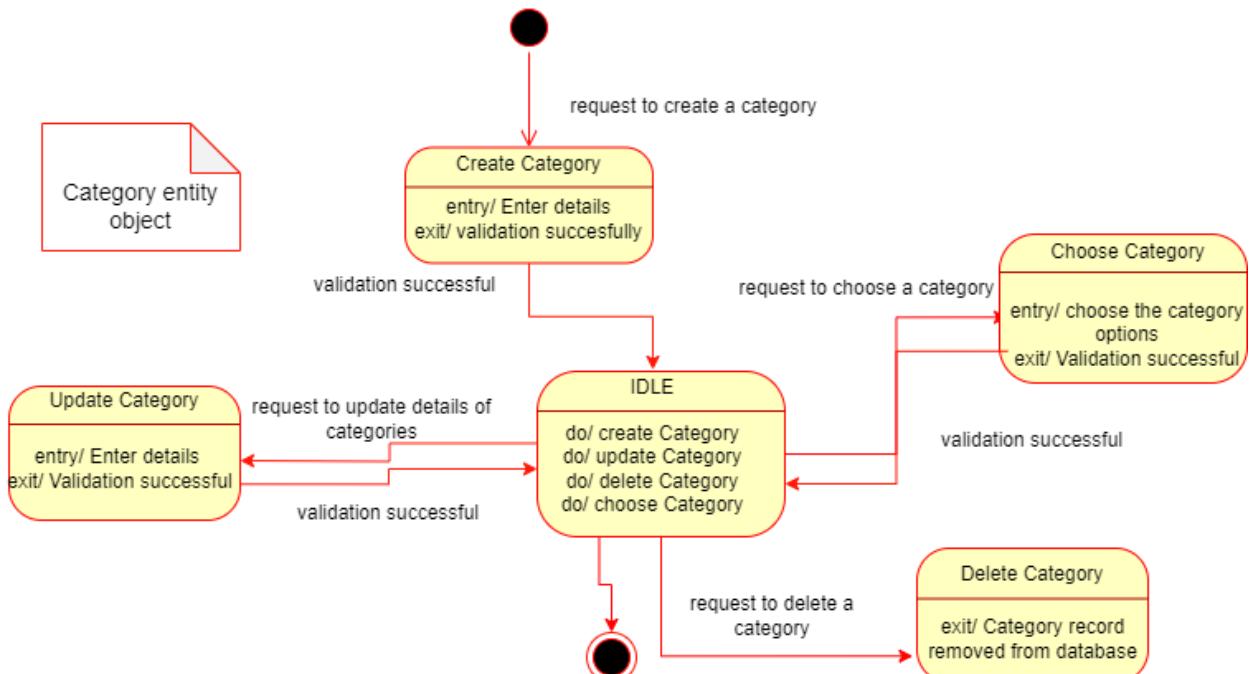
4.3.3 State Diagrams



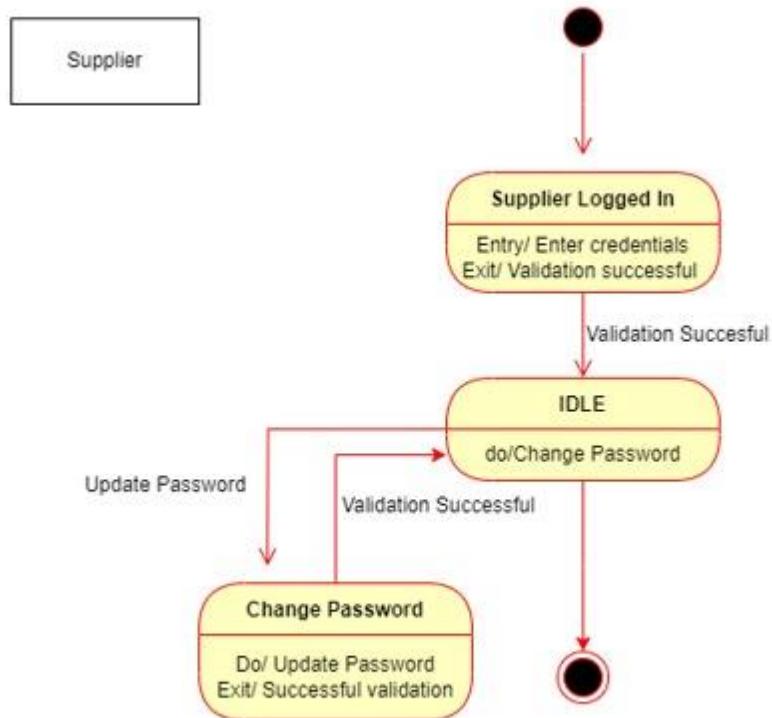
SD_01 Administrator



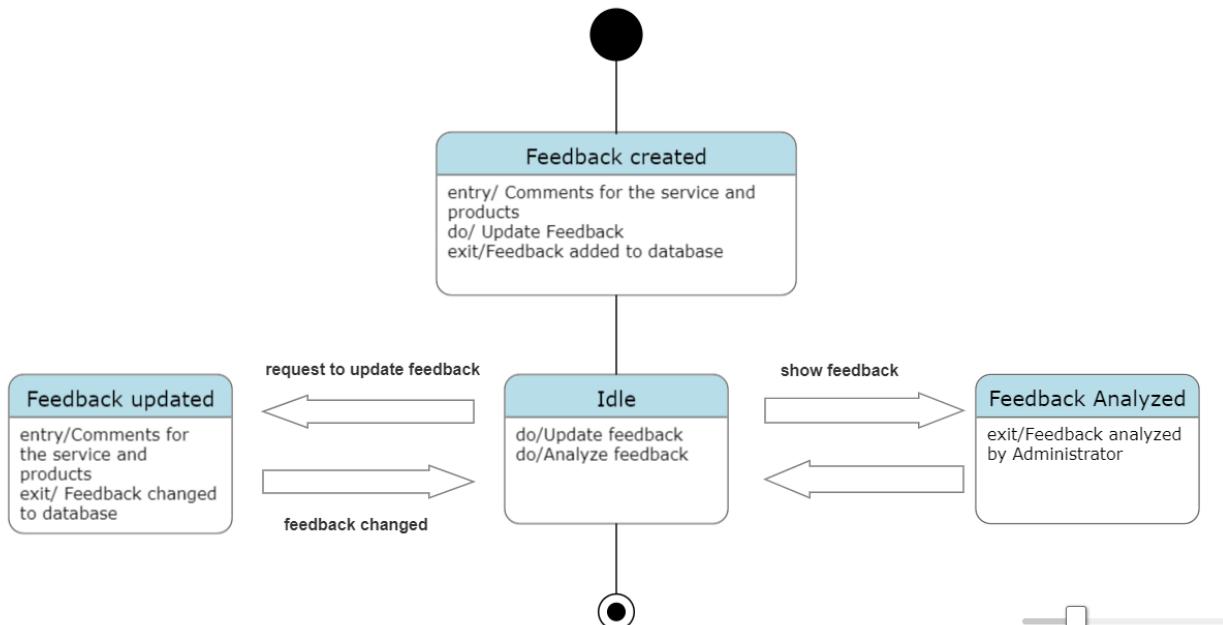
SD_02 Customer



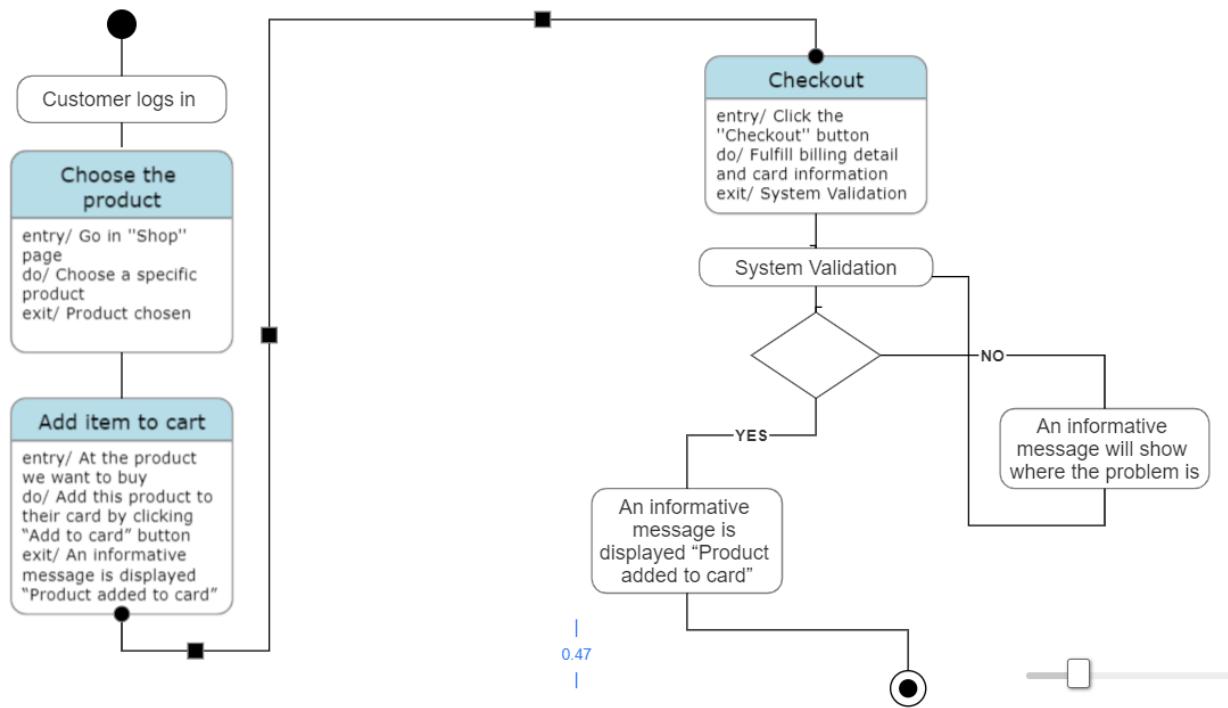
SD_03 Category



SD_04 Supplier



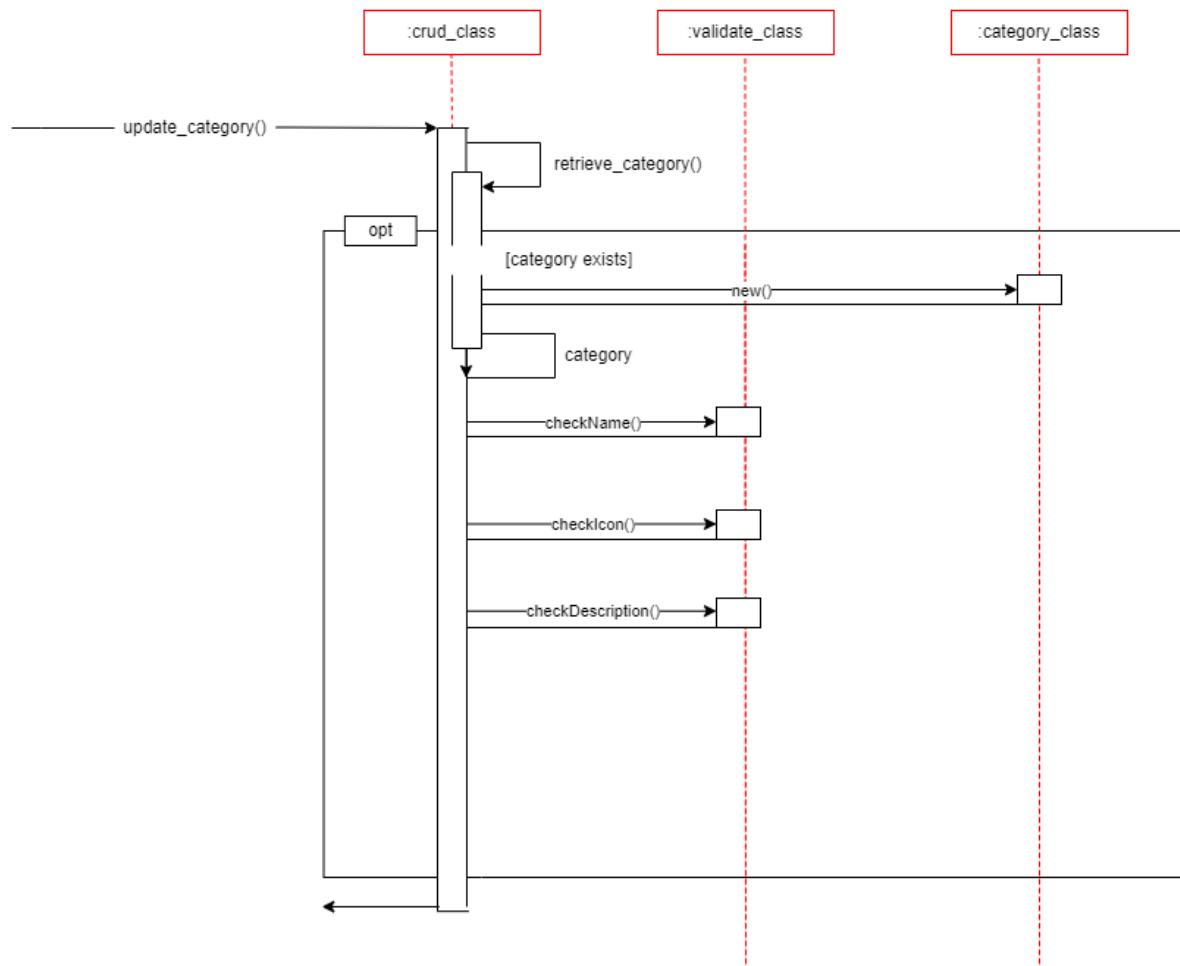
SD_05 Feedback



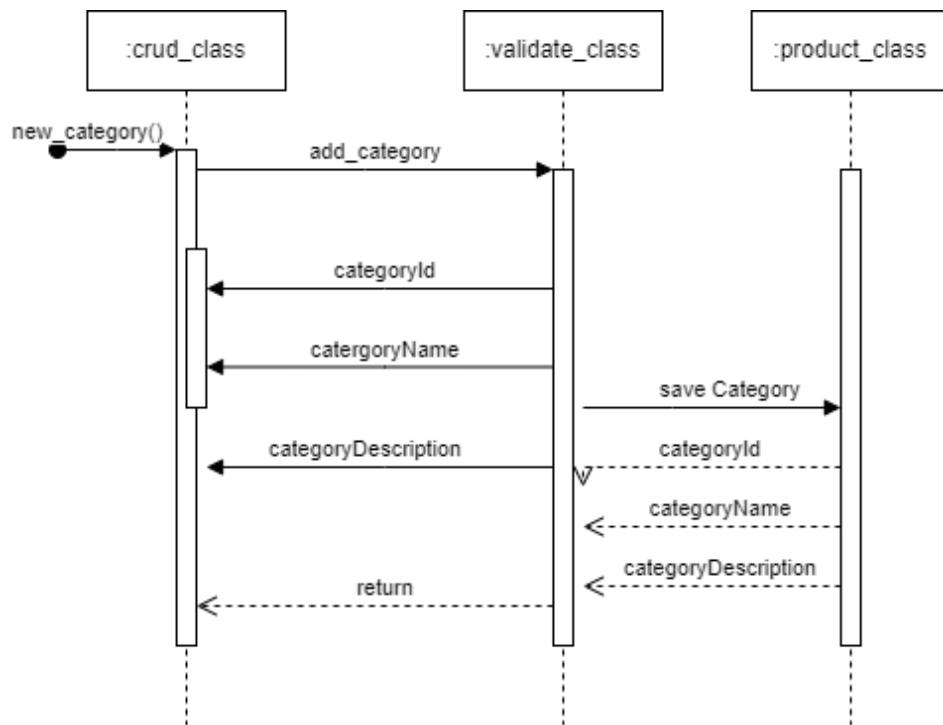
SD_06 Make an order

0.47

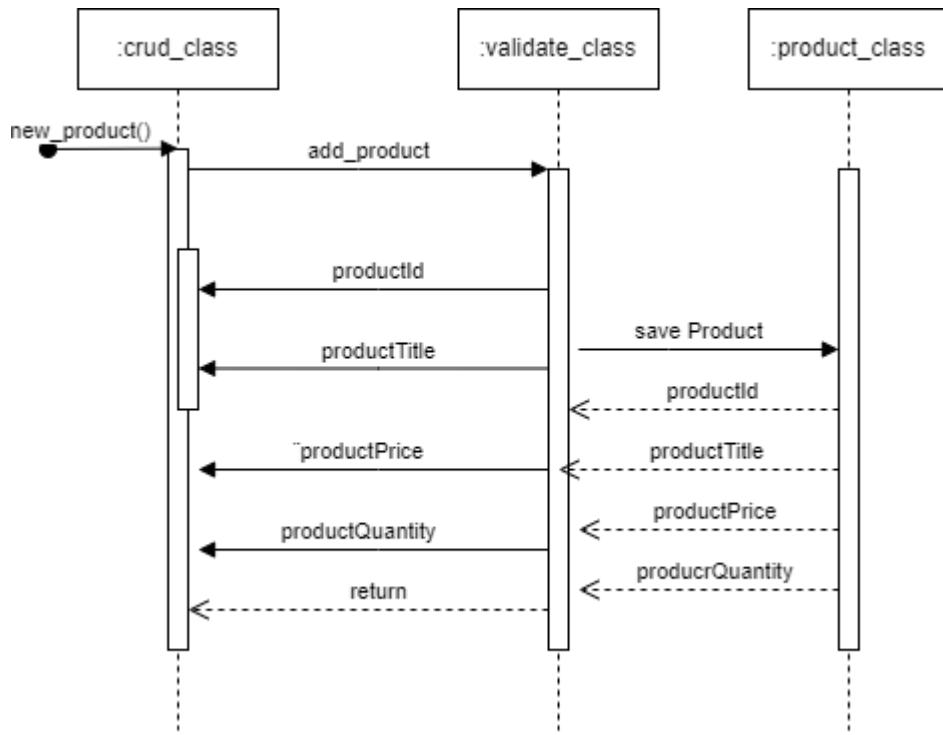
4.4.4 Sequence Diagrams



SED_01 Update category

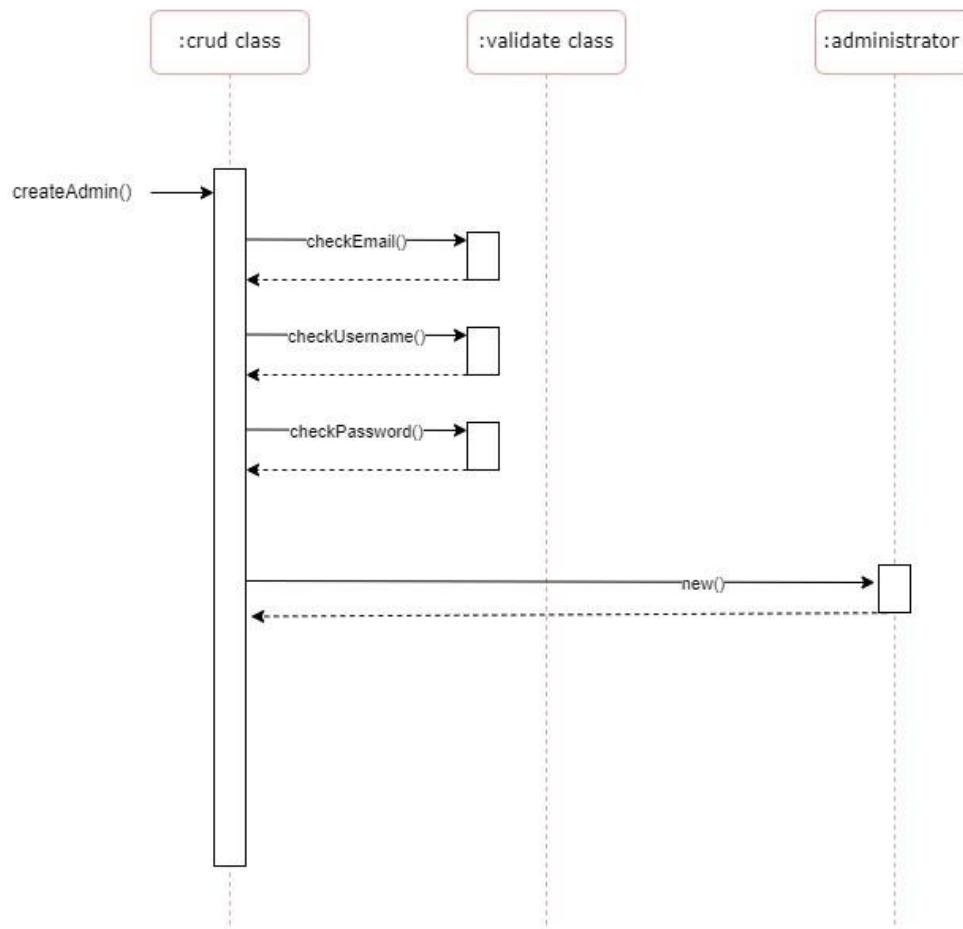


SED_02 Create a new category

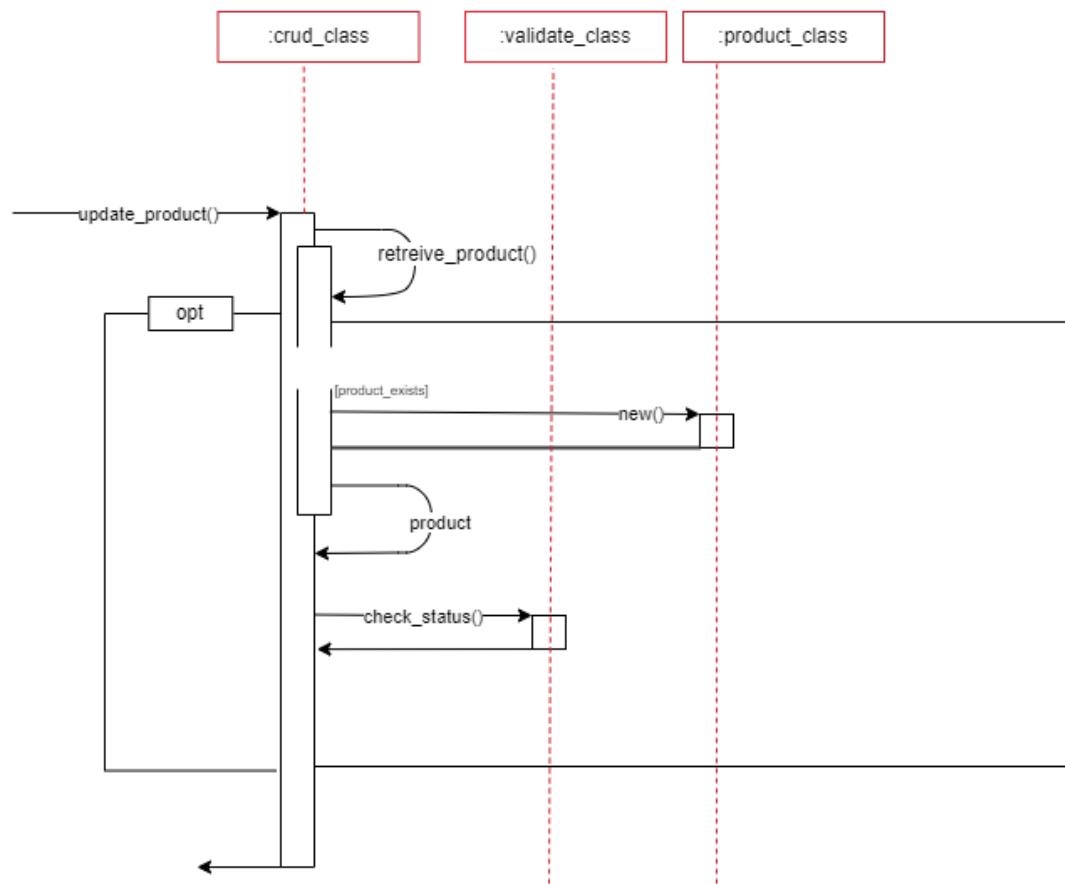


SED_03 Create a new product

create an administrator account

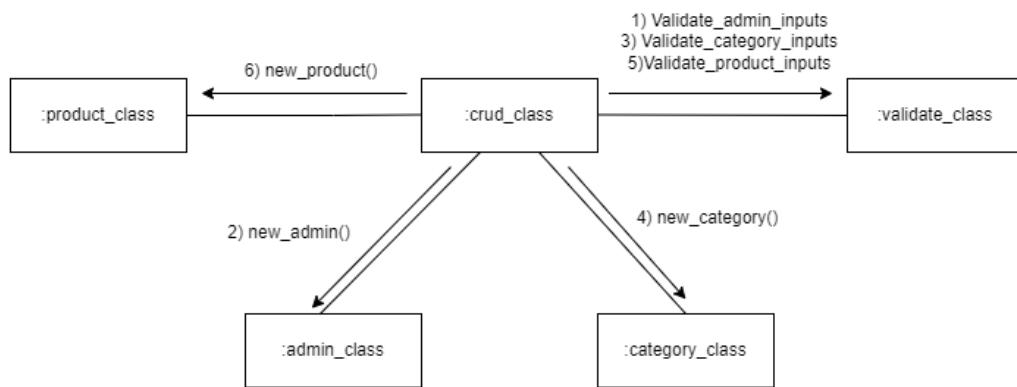


SED_04 Create a new admin Account

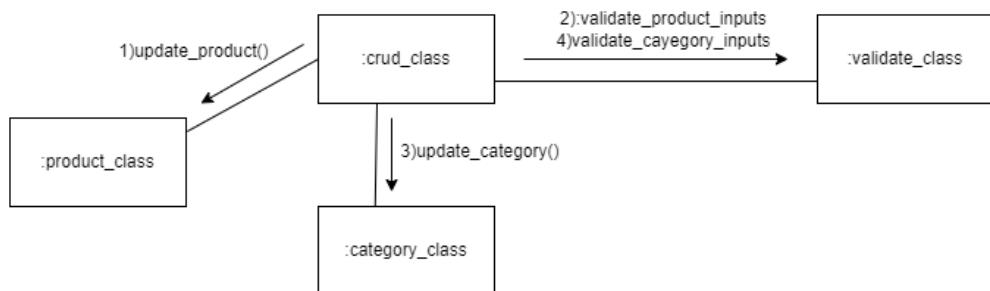


SED_05 Update product

4.4.5 Collaboration Diagrams

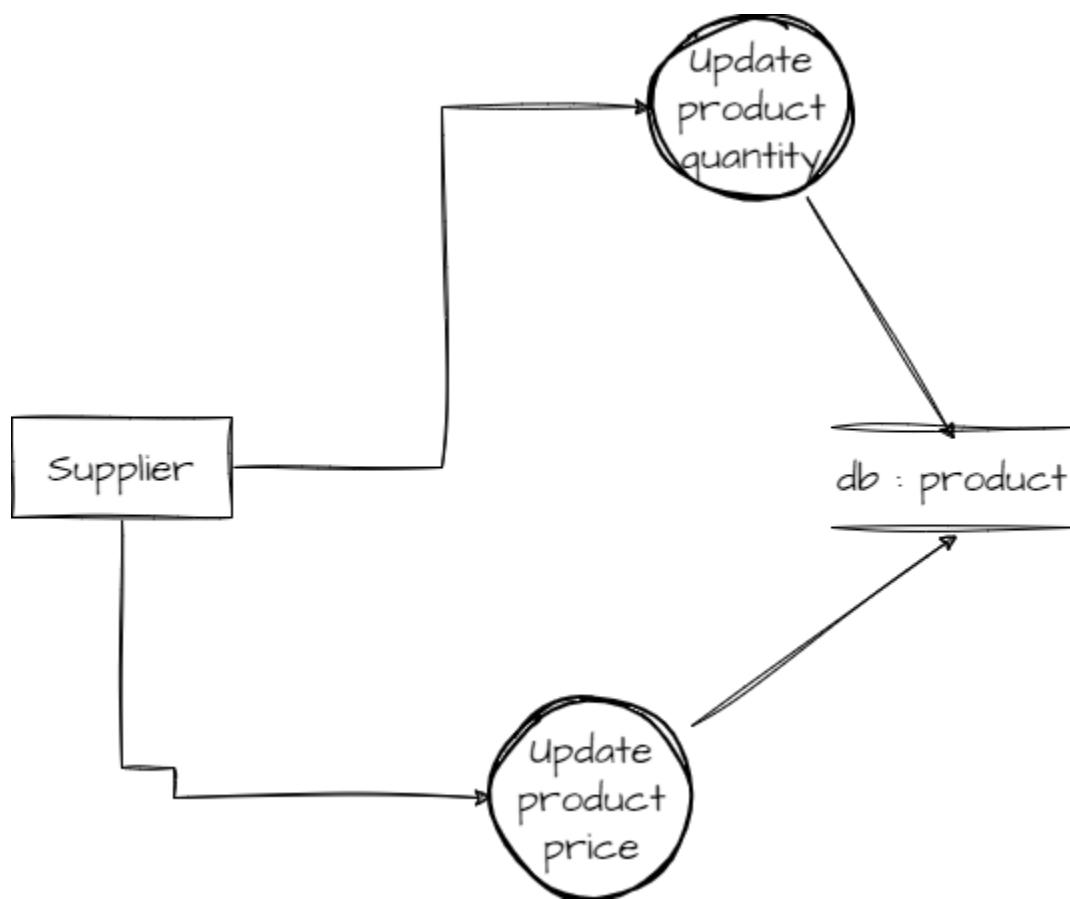


CLD_01 Create admin, category, product

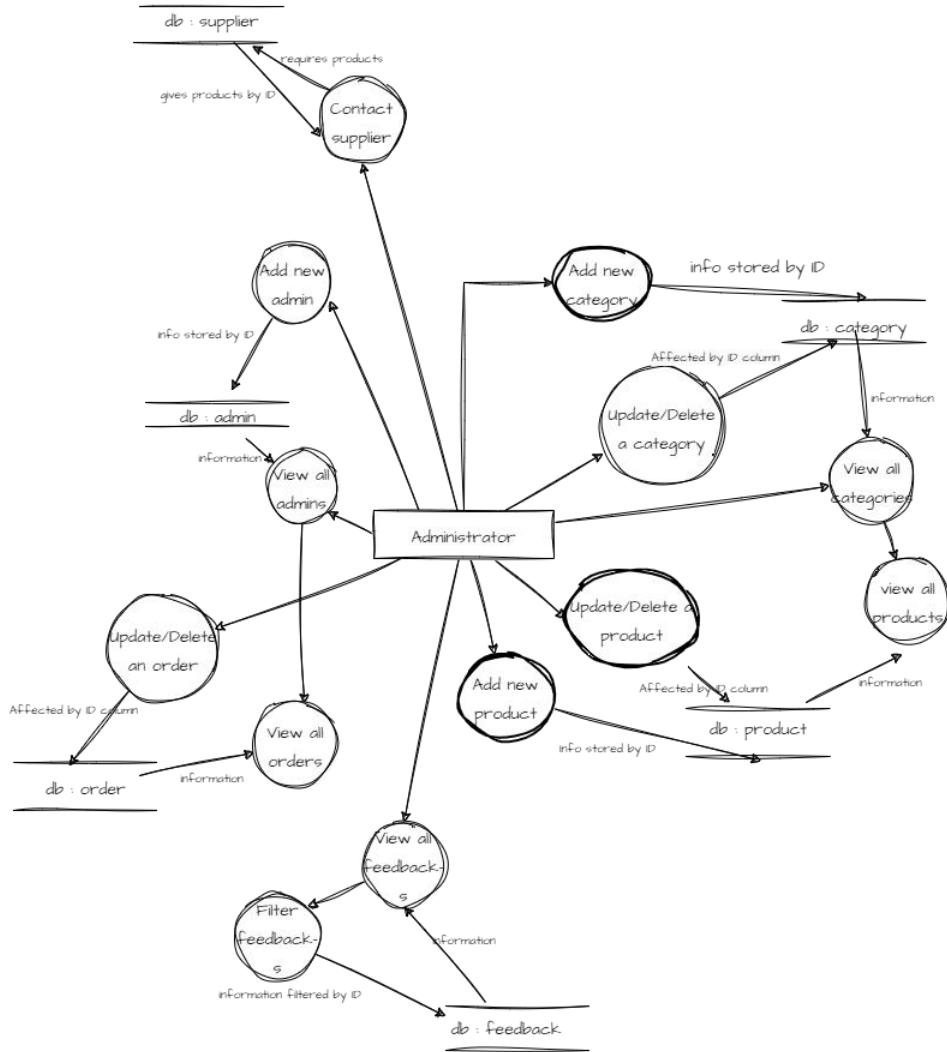


CLD_02 Update product, category

4.3 Data Flow Diagrams

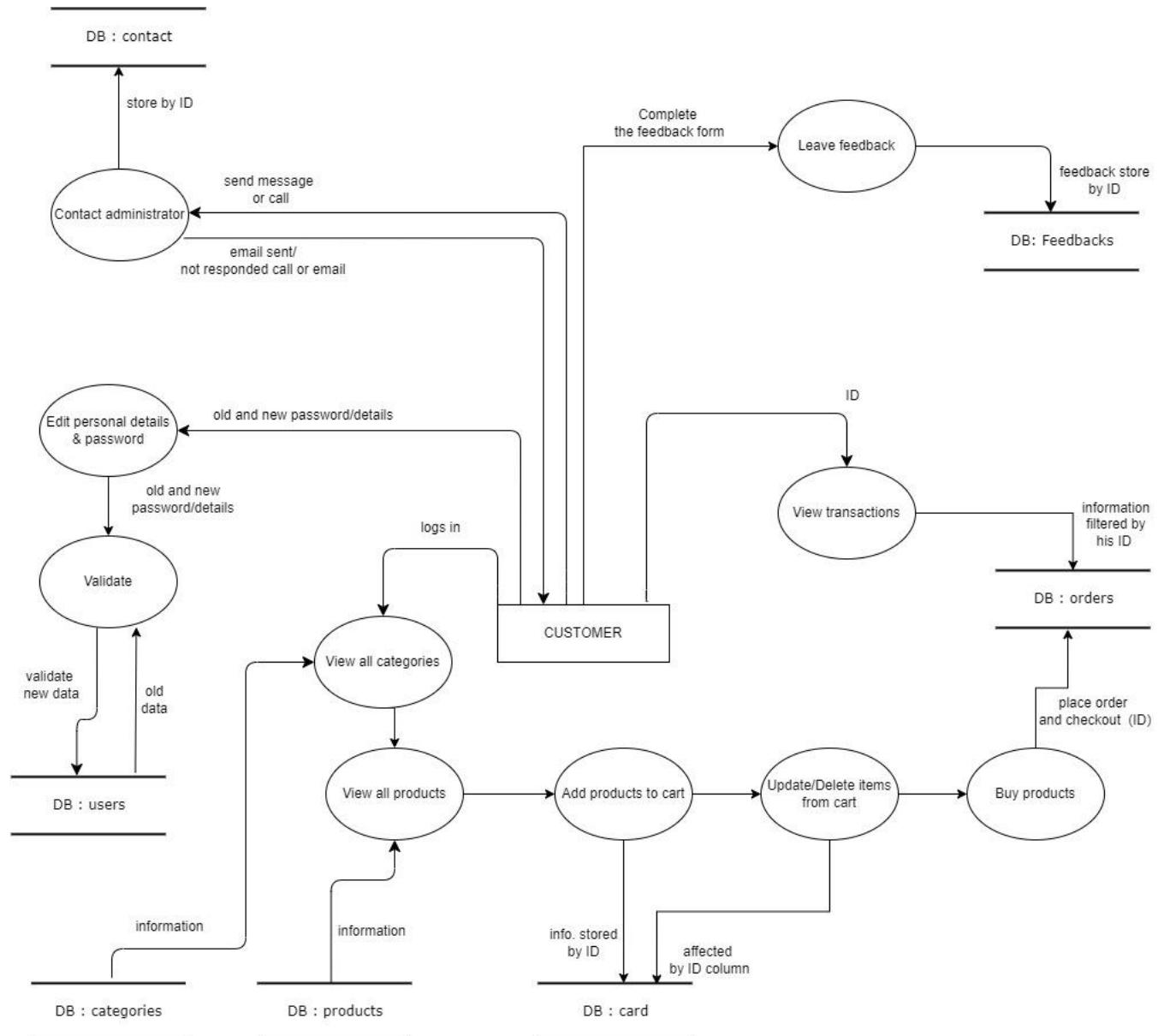


Order 0 Data Flow Diagram



Order 1 Data Flow Diagram

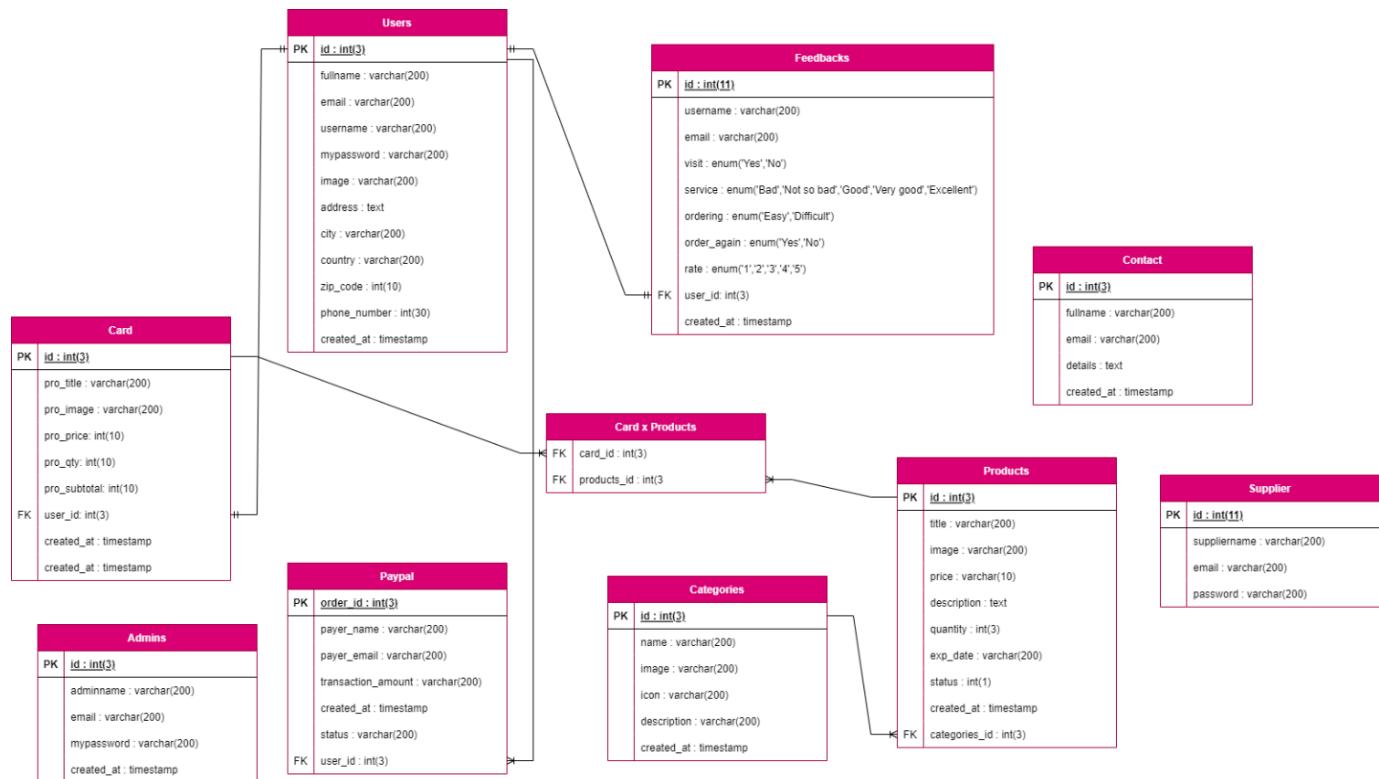
PMS Documentation



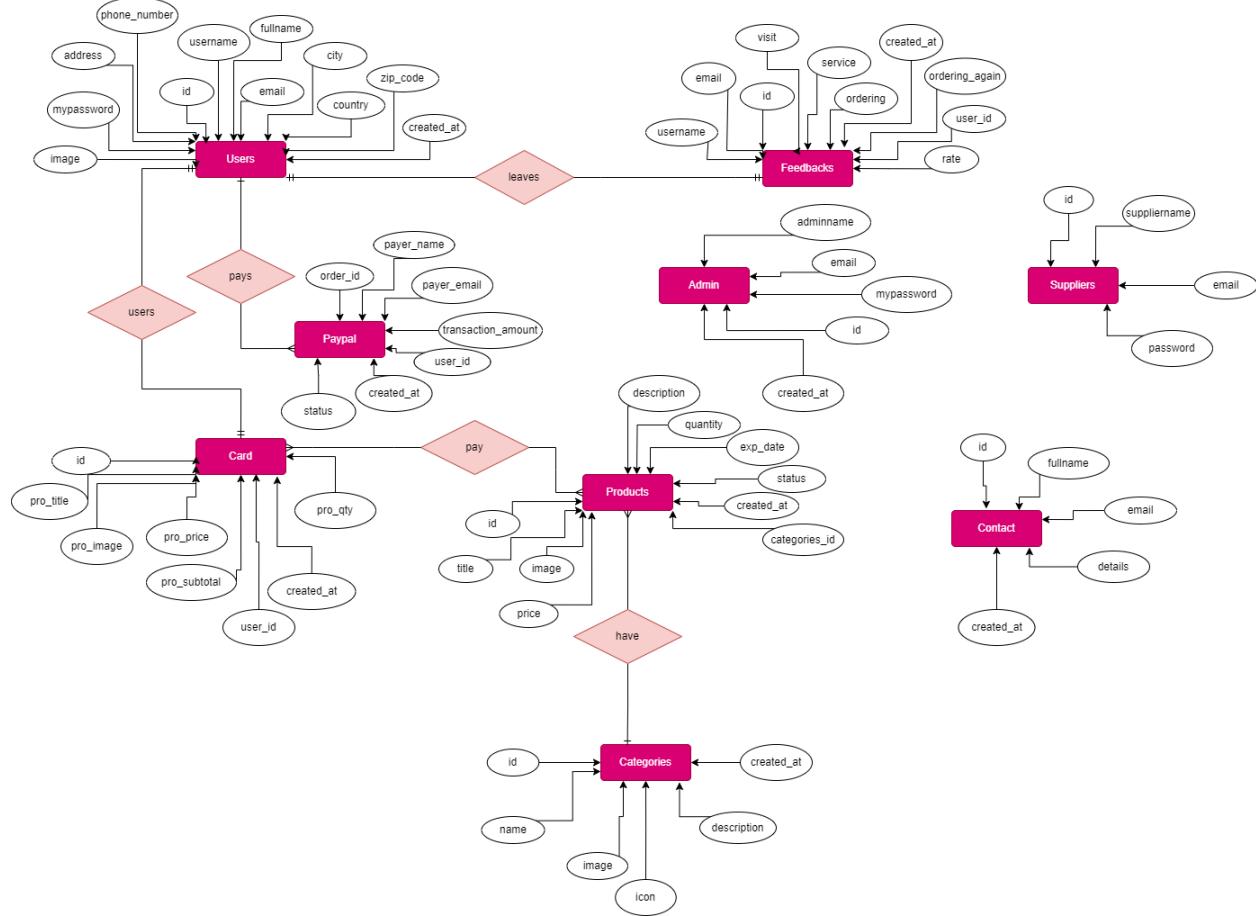
Order 2 Data Flow Diagram

4.4 Entity Relation

4.4.1 Database Schema Design



4.4.2 Entity Relation Diagram

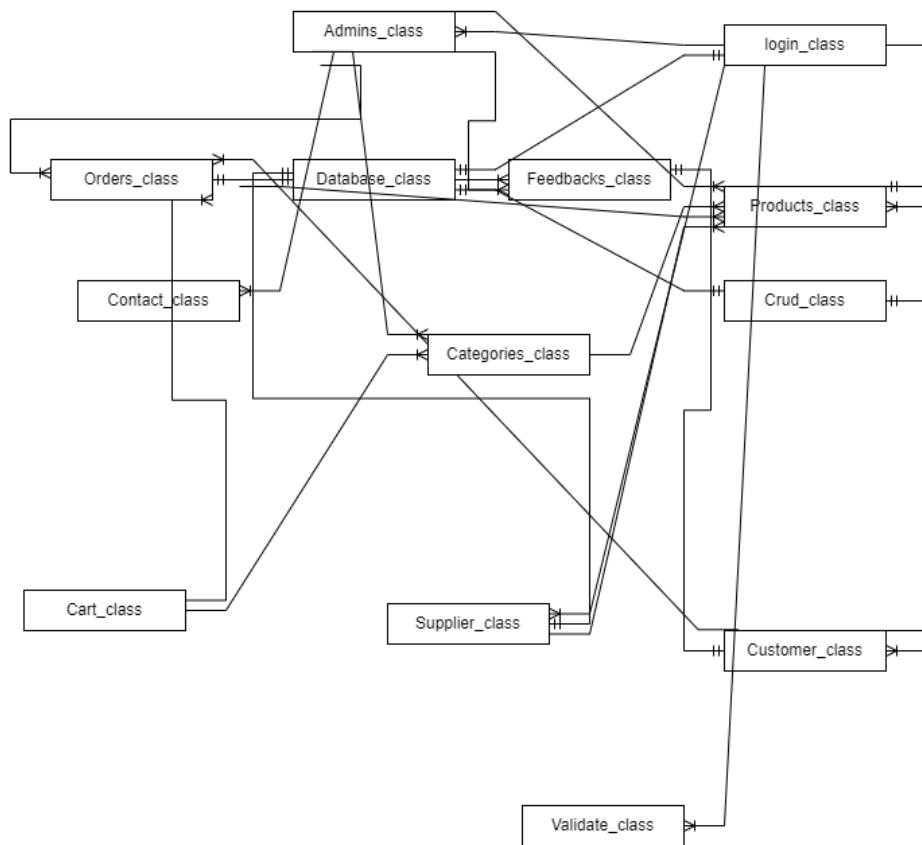


4.5 Structural Diagrams

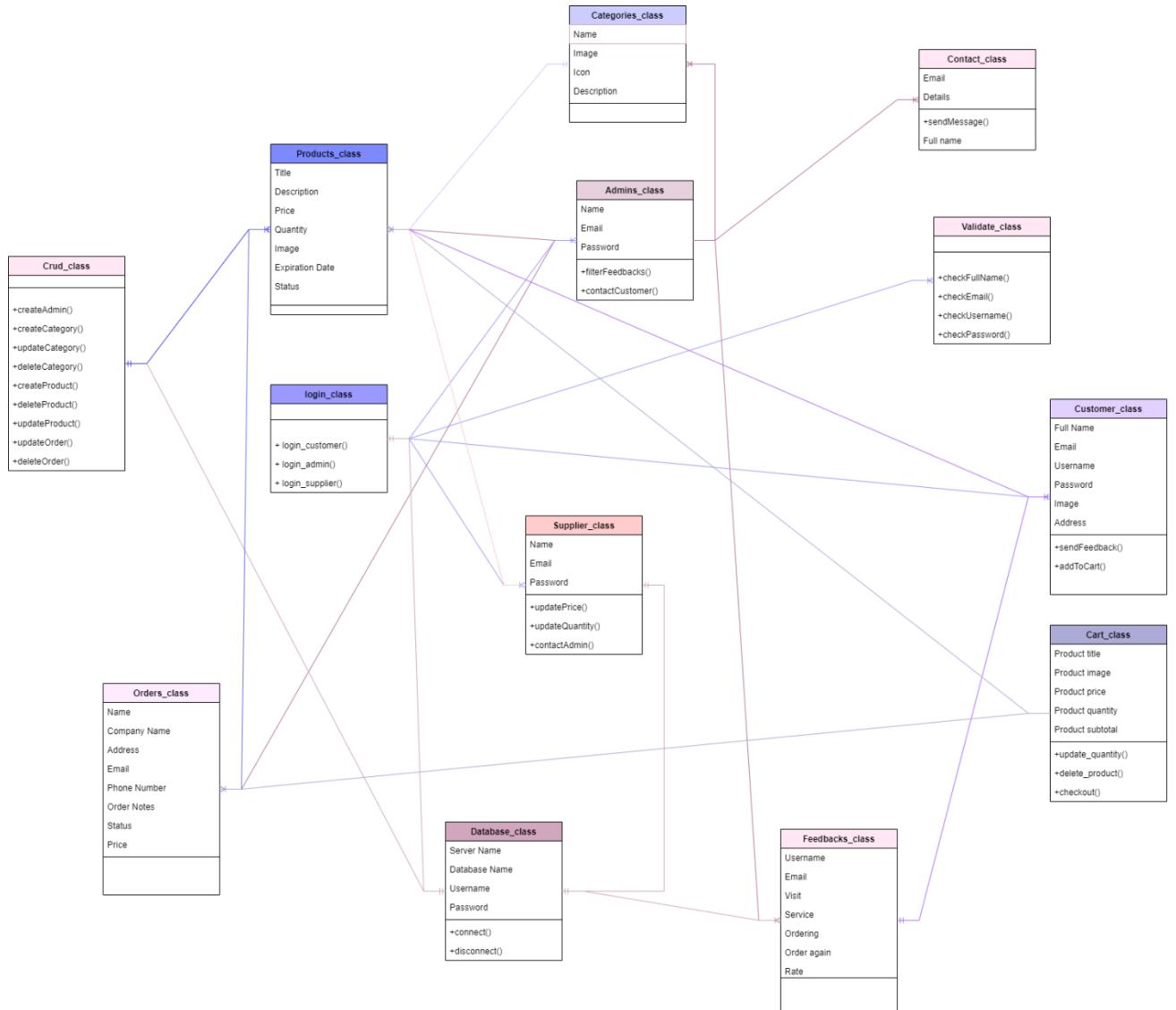
4.5.1 Class Diagram

Customer_class	Products_class	Categories_class	Admins_class
Full Name Email Username Password Image Address	Title Description Price Quantity Image Expiration Date Status	Name Image Icon Description	Name Email Password
+sendFeedback() +addToCart()			+filterFeedbacks() +contactCustomer()
Orders_class	Database_class	Feedbacks_class	login_class
Name Company Name Address Email Phone Number Order Notes Status Price	Server Name Database Name Username Password +connect() +disconnect()	Username Email Visit Service Ordering Order again Rate	+ login_customer() + login_admin() + login_supplier()
Validate_class	Supplier_class	Contact_class	Cart_class
+checkFullName() +checkEmail() +checkUsername() +checkPassword()	Name Email Password +updatePrice() +updateQuantity() +contactAdmin()	Full name Email Details +sendMessage()	Product title Product image Product price Product quantity Product subtotal +update_quantity() +delete_product() +checkout()
			Crud_class
			+createAdmin() +createCategory() +updateCategory() +deleteCategory() +createProduct() +deleteProduct() +updateProduct() +updateOrder() +deleteOrder()

CD_01 – Attributes and methods list for each class



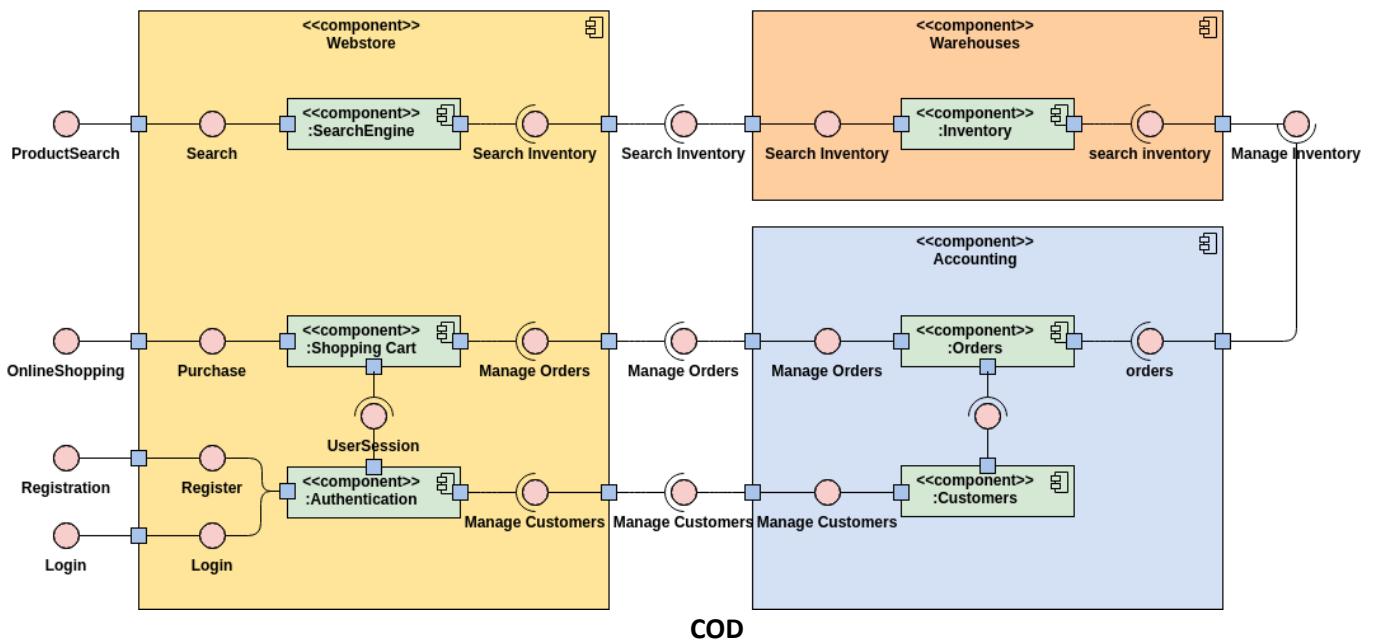
CD_02 – Relation between classes



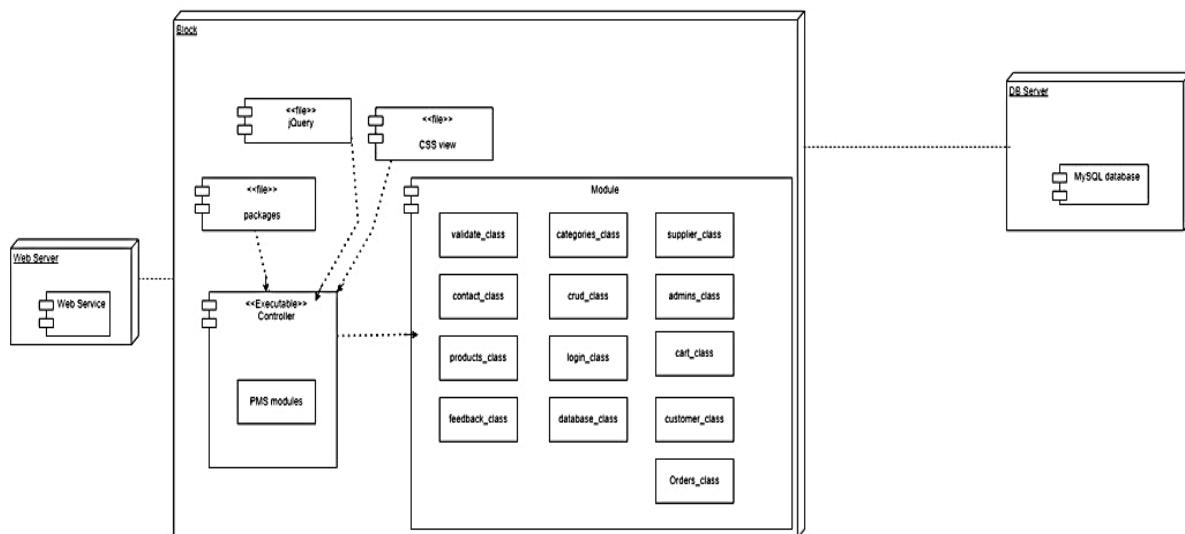
CD_03 – Complete class diagram

4.5.3 Component Diagram

PMS Documentation



4.5.4 Deployment Diagram



DD_01

5 Implementation Technology

5.1 Implementation

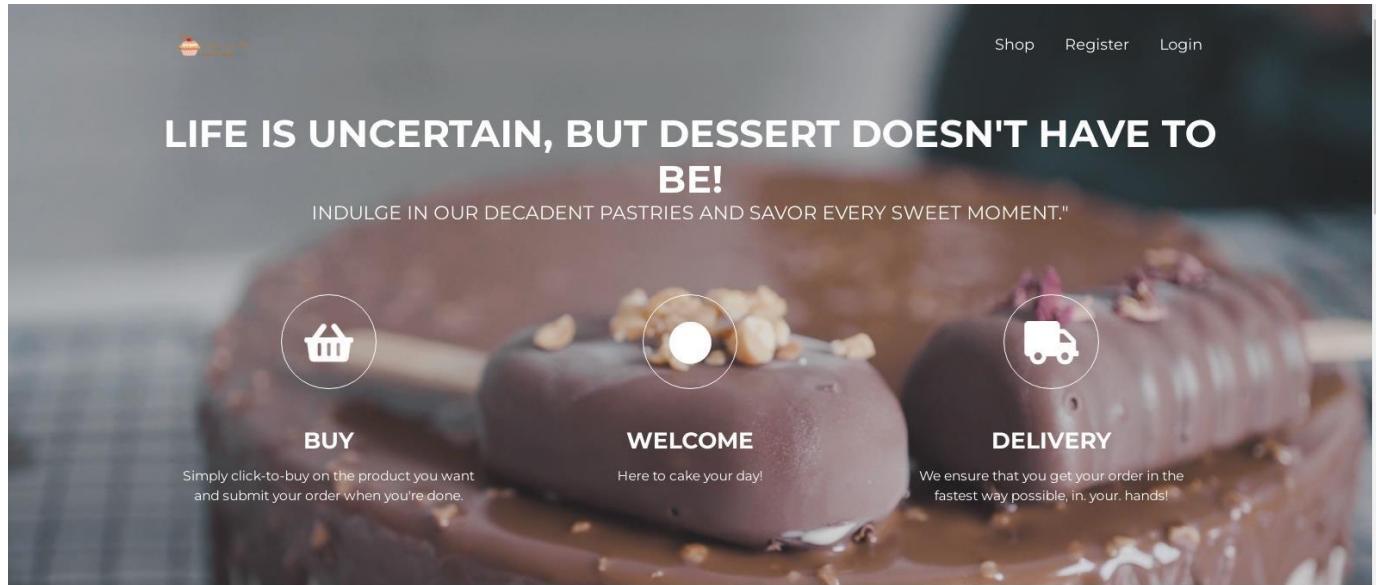
Our pastry shop website has been implemented using a combination of technologies that work together seamlessly to deliver an outstanding user experience. In the front-end, we have utilized HTML and CSS Bootstrap to create a visually appealing and responsive website that is optimized for all devices. Bootstrap allowed us to create a modern and intuitive design that is easy to navigate and user-friendly.

In the back-end, we have used PHP, a popular server-side scripting language, to build dynamic web pages and handle server-side processing. We have also utilized MySQL, a powerful and scalable relational database management system, to store and manage our website's data. PHP and MySQL work together seamlessly to provide efficient data processing and management, allowing us to provide our customers with fast and reliable access to our products and services.

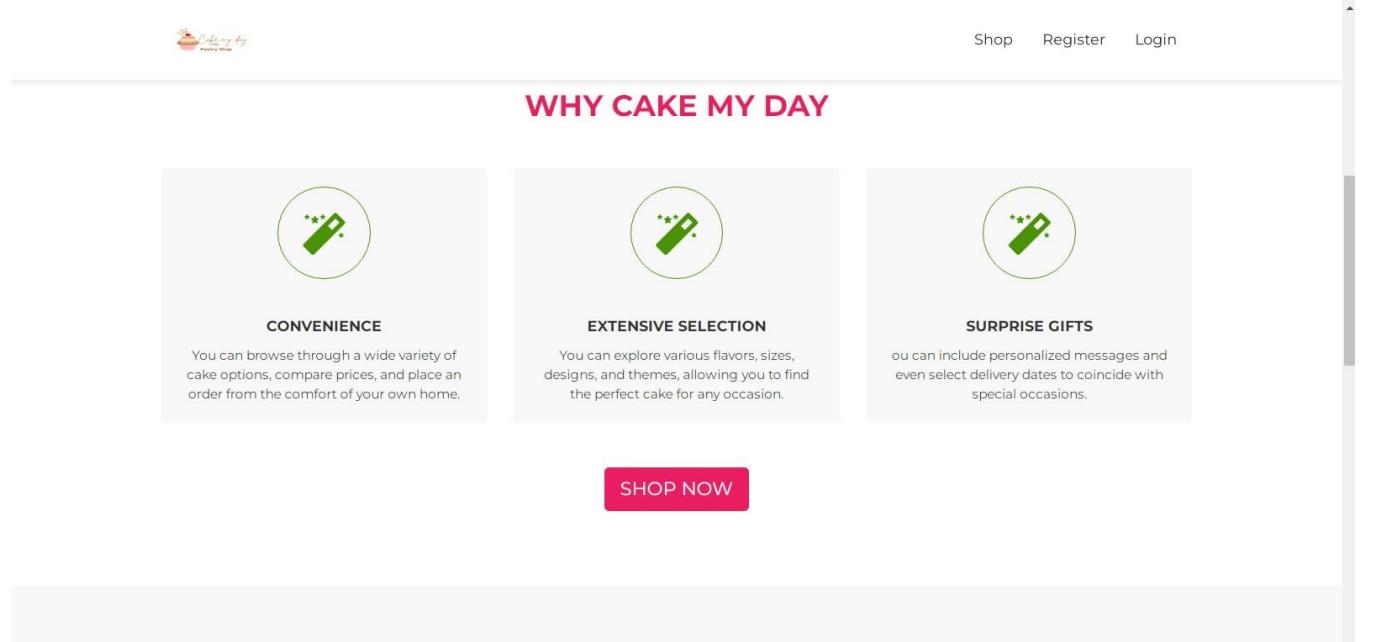
To ensure optimal website performance and security, we have employed various best practices such as caching, compression, and SSL encryption.

Overall, our pastry shop website has been implemented using a powerful and reliable technology stack that provides exceptional performance, security, and scalability. By utilizing HTML and CSS Bootstrap in the front-end and PHP linked to MySQL in the back-end, we have created a website that is both visually appealing and highly functional, delivering a superior user experience to our customers.

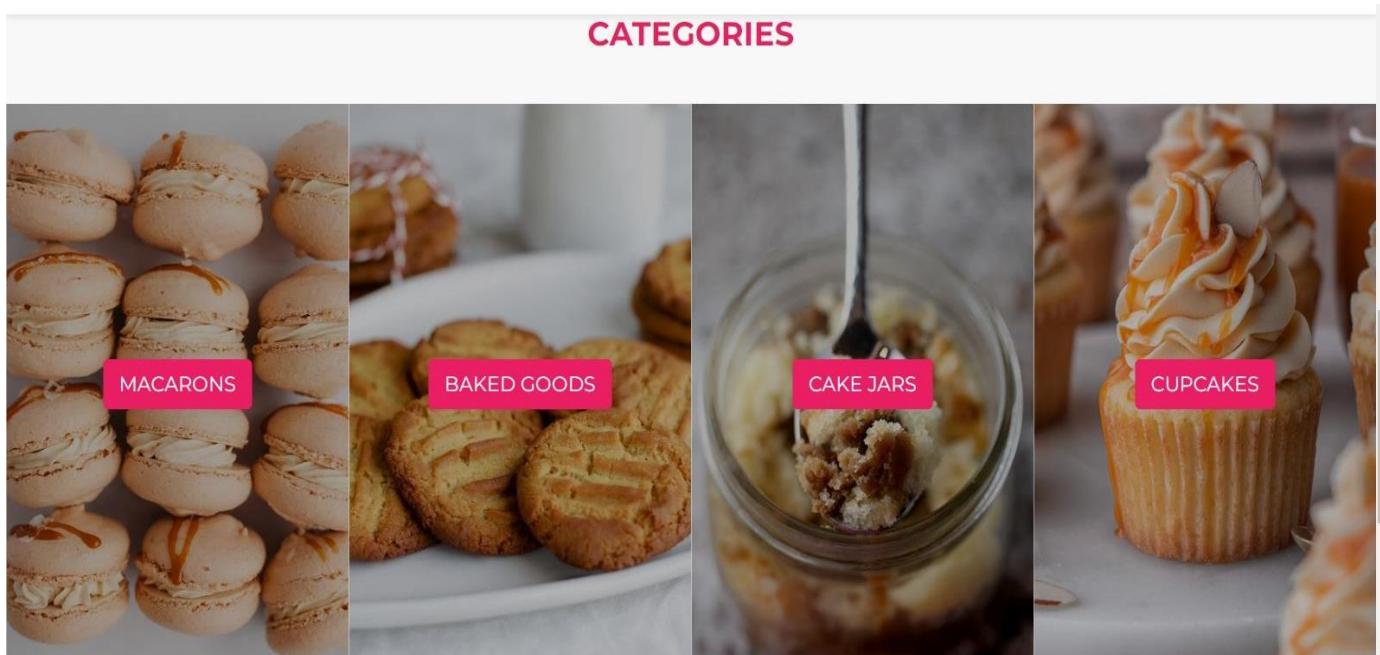
a) Website structure



01 - Home Page



02 - Home Page(continue)



03 - Home Page(continue)

ABOUT
Find us and experience the best cakes and sweets! If you have any questions about our products, call us. We would love to hear from you!

LINKS
About
Contact Us
FAQ
Terms
Privacy Policy

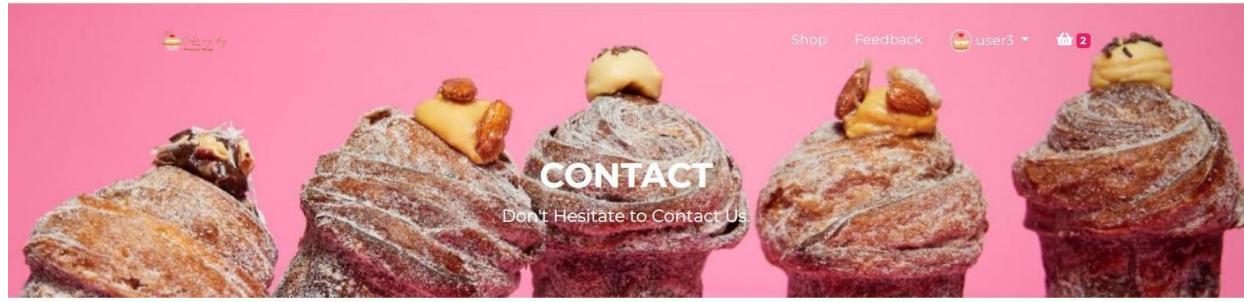
CONTACT
+492433442977
hello@cakemyday.com

FOLLOW US
[f](#) [@](#) [v](#)

GET OUR APP
[Get it on Google play](#)

© 2023 Cake My Day | Pastry Shop. All rights reserved.

04 - Home Page(continued)



05 - Contact Page

SEND US A MESSAGE

Full Name

Email

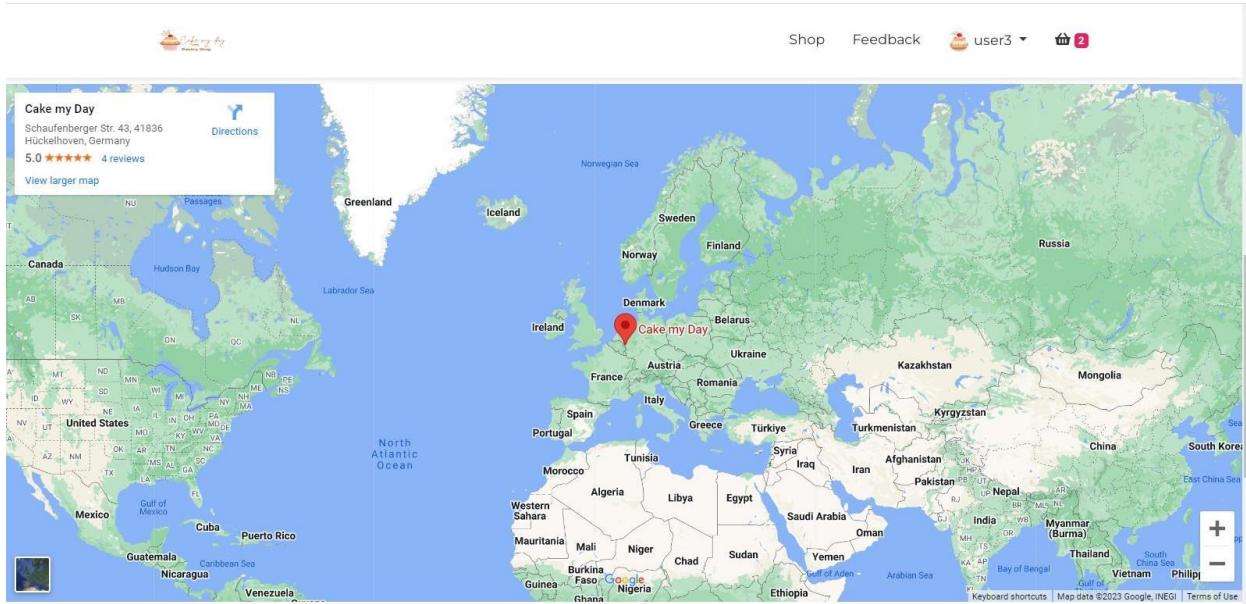
Message

**CAKE MY DAY
HEADQUARTER**

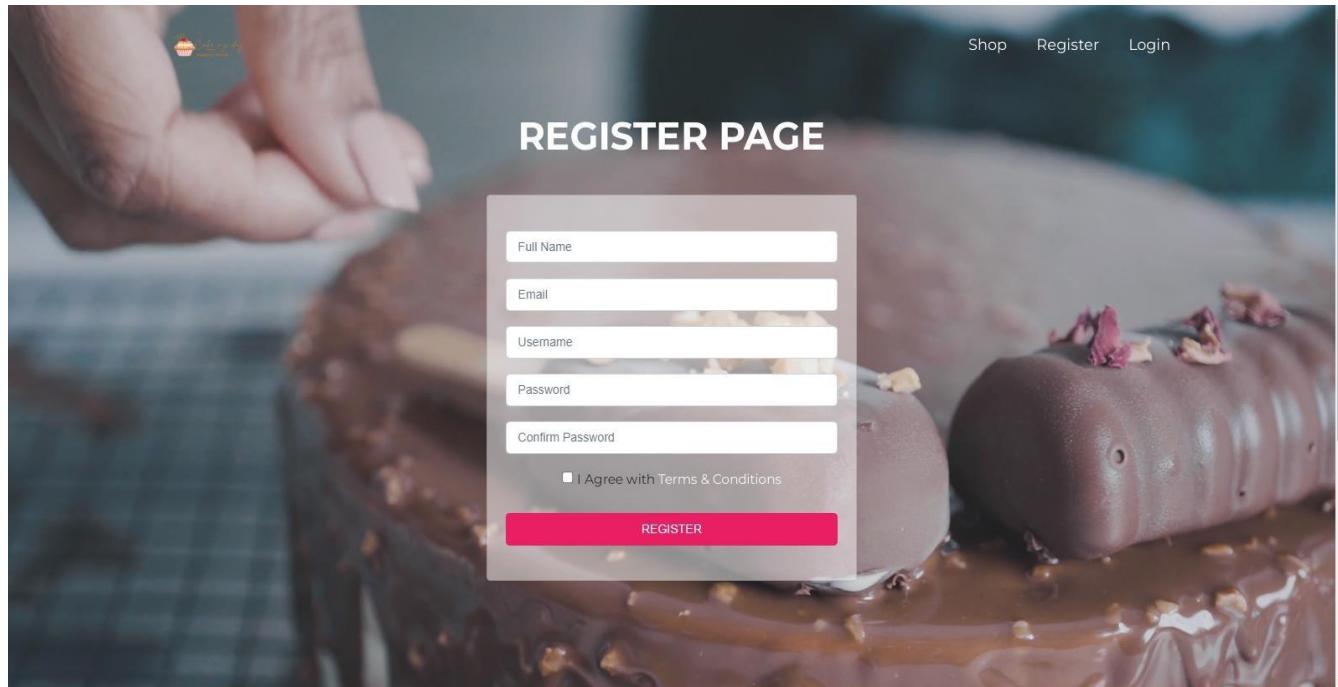
Schaufenberger Str. 43,
41836 Hückelhoven,
Germany

+492433442977
hello@cakemyday.com

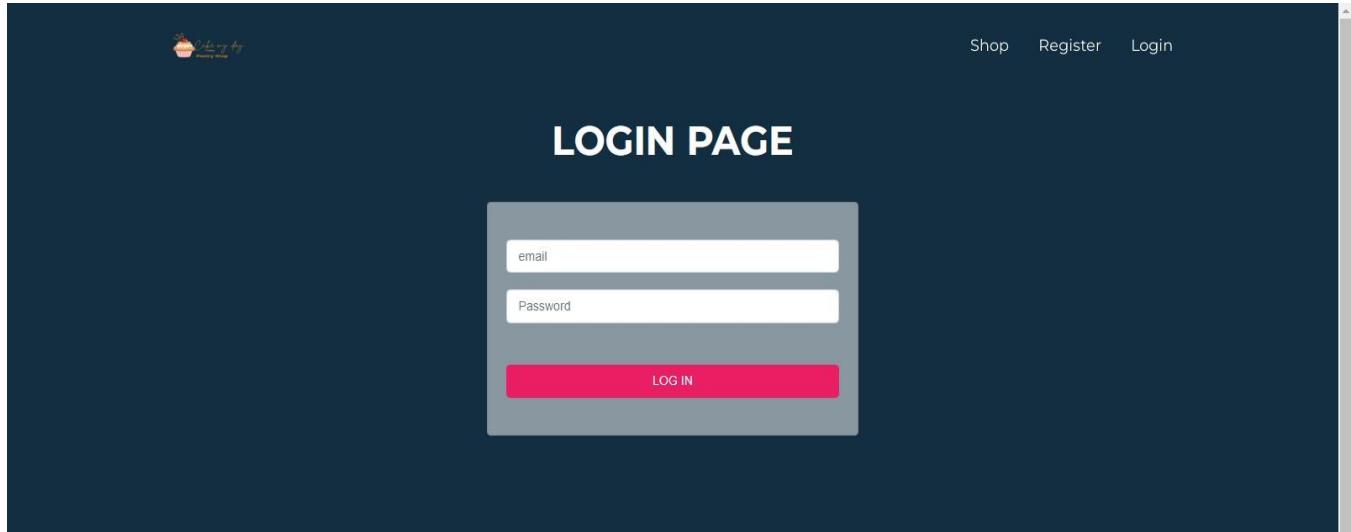
06 - Contact Page (Continued)



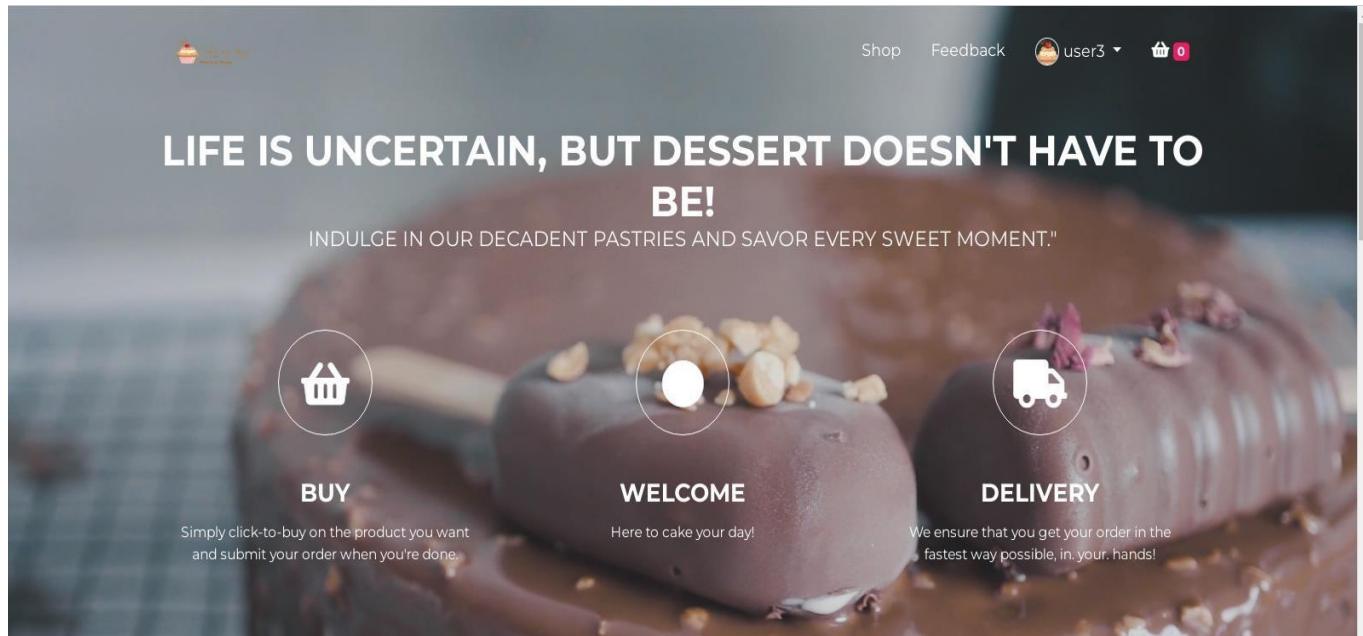
07 - Contact Page (Continued)



08 – Register Page



09 - Log - in Page



10-User Home Page

The screenshot shows the homepage of a bakery website. At the top right, there are navigation links for 'Shop', 'Feedback', and user account information ('user3'). Below the header, a large pink banner features the text 'SHOPPING PAGE' in bold red letters, followed by a subtitle: 'Shopping for pastries is like taking a delicious journey, where every bite is a new adventure!'.



11 - User Shopping Page

The screenshot shows the 'Most Wanted' section of the shopping page. At the top right, there are navigation links for 'Shop', 'Feedback', and user account information ('user3'). Below the header, a pink banner features the text 'MOST WANTED' in bold red letters.

The main content area displays four items in a grid:

Item Image	Offer Details	Name	Price	Action
	Until 2024 20% OFF	SPECIAL COOKIES	898 ALL	Add to Cart
	Until 2025 20% OFF	OREO CUPCAKE	801 ALL	Add to Cart
	Until 2025 20% OFF	STRAWBERRY MACARON	702 ALL	Add to Cart
	Until 2024 20% OFF	CARMEL MACARON	830 ALL	Add to Cart

12 - User Shopping Page(continued)

The screenshot shows the 'CAKES' section of a user shopping page. At the top, there are four cake products displayed in a grid:

- CHERRY CAKE** (999 ALL) - Until 2024, 20% OFF. Add to Cart.
- CHOCOLATE CAKE** (1300 ALL) - Until 2024, 20% OFF. Add to Cart.
- OREO CAKE** (1500 ALL) - Until 2024, 20% OFF. Add to Cart.
- STRAWBERRY CAKE** (1200 ALL) - Until 2024, 20% OFF. Add to Cart.

Each cake has a 'SPECIAL' ribbon in the top right corner. The background is white with a light gray header bar at the top containing the logo, navigation links, and a user profile.

13 - User Shopping Page(continued)

The screenshot shows the 'BAKED GOODS' section of a user shopping page. At the top, there are four baked goods displayed in a grid:

- SPECIAL COOKIES** (898 ALL) - Until 2024, 20% OFF. Add to Cart.
- CHOCOLATE COOKIE** (800 ALL) - Until 2024, 20% OFF. Add to Cart.
- PLAIN COOKIE** (700 ALL) - Until 2024, 20% OFF. Add to Cart.
- OATMEAL COOKIE** (850 ALL) - Until 2025, 20% OFF. Add to Cart.

Each item has a 'SPECIAL' ribbon in the top right corner. The background is white with a light gray header bar at the top containing the logo, navigation links, and a user profile.

14 - User Shopping Page(continued)

The screenshot shows a user interface for a bakery shop. At the top, there is a logo for "Baking Day Bakery Shop", navigation links for "Shop" and "Feedback", and a user profile icon for "user3". A shopping cart icon indicates 0 items. The main content area is titled "CUPCAKES" in pink. It displays four cupcake products in a grid:

Image	Name	Offer	Price
	OREO CUPCAKE	Until 2025 20% OFF	801 ALL
	CHOCOLATE CUPCAKE	Until 2024 20% OFF	750 ALL
	LEMON CUPCAKE	Until 2024 20% OFF	500 ALL
	RED CUPCAKE	Until 2025 20% OFF	600 ALL

Each product card includes an "Add to Cart" button.

15 – User Shopping Page (continued)

The screenshot shows a user interface for a bakery shop. At the top, there is a logo for "Baking Day Bakery Shop", navigation links for "Shop" and "Feedback", and a user profile icon for "user3". A shopping cart icon indicates 0 items. The main content area is titled "MACARONS" in pink. It displays four macaron products in a grid:

Image	Name	Offer	Price
	STRAWBERRY MACARON	Until 2025 20% OFF	702 ALL
	CARAMEL MACARON	Until 2024 20% OFF	830 ALL
	CHOCOLATE MACARON	Until 2025 20% OFF	900 ALL
	LEMON MACARON	Until 2024 20% OFF	750 ALL

Each product card includes an "Add to Cart" button.

16 – User Shopping Page (continued)



Shop Feedback user3 ▾ 0

CAKE JARS



17 - User Shopping Page(continued)



Shop Feedback user3 ▾ 0

FEEL FREE TO SHARE YOUR THOUGHTS WITH US

Complete the form below to provide a feedback !

YOUR FEEDBACK

user3

user3@gmail.com

Is this your first visit to the website?

Yes No

How would you rate the service of the website?

Bad Not so bad Average Good Very good Excellent

Was the ordering process easy or difficult to do?

Easy Difficult

18 - User Feedback



Shop

Feedback

user3 ▾

0

Would you order again from the website?

Yes No

How many stars would you give the website?

1 2 3 4 5

Submit Feedback

ABOUT

Find us and experience the best cakes and sweets! If you have any questions about our products, call us. We would love to hear from you!

LINKS

About
Contact Us
FAQ
Terms
Privacy Policy

CONTACT

+492433442977
hello@cakemyday.com

GET OUR APP



19 - User Feedback(continued)



Shop

Feedback

user3 ▾

0

YOUR CART

No products in the cart yet

Products

Price

Quantity

Update

Subtotal

Delete

[Continue Shopping](#)

TOTAL PRICE IN ALL: 0

20 - User Empty Cart



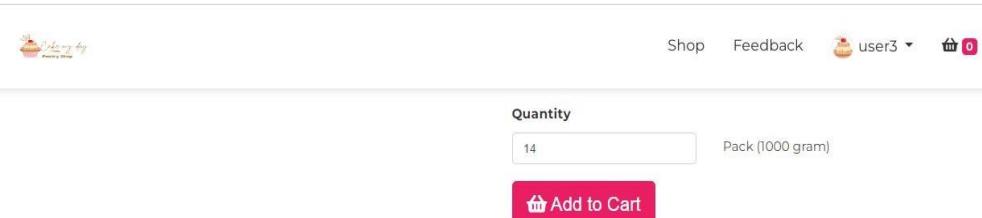
Overview

Welcome to our cookie wonderland! Indulge in the heavenly delight of our freshly baked cookies. Each bite offers a perfect balance of crispy edges and a soft, chewy center that will leave you craving more. Our cookies are made with premium ingredients, including rich butter, high-quality chocolate, and a touch of magic. From classic chocolate chip to decadent double chocolate, our selection of flavors will satisfy every cookie lover's palate. Baked to perfection, our cookies are crafted with love and attention to detail.

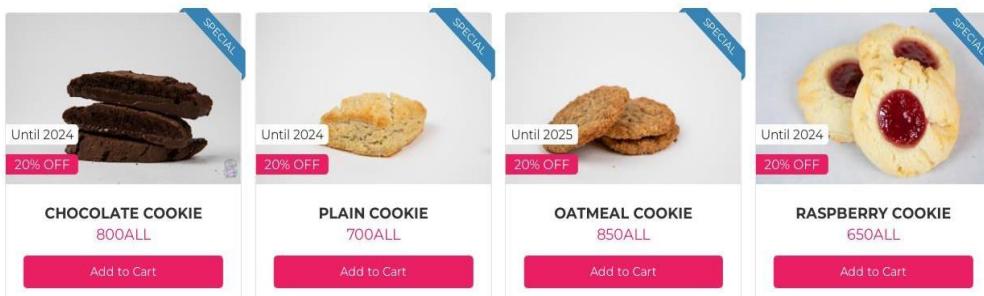
Price (/Pack)

898ALL

21 - User Adding Product to Cart



RELATED PRODUCTS



22 - User Adding Product to Cart (Continued)

YOUR CART

Products	Price	Quantity	Update	Subtotal	Delete
Special Cookies 1000g	898	<input type="text" value="14"/>	<button>Update</button>	12572	<button>Delete</button>
Raspberry Cookie 1000g	650	<input type="text" value="1"/>	<button>Update</button>	650	<button>Delete</button>

[Continue Shopping](#) **TOTAL PRICE IN ALL: 13222** [Checkout](#)

23 - User Cart after adding products

BILLING DETAILS

YOUR ORDER

Products	S
Special Cookies x 14	12
Raspberry Cookie x 1	650
Cart Subtotal	13222
Shipping	0.00
ORDER	13222

24 - Checkout (Billing Details)

PMS Documentation

Special Cookies x 14

Raspberry Cookie x1

Cart Subtotal

Shipping

ORDER TOTAL

Warning: A non-numeric value encountered
C:\xampp\htdocs\cakemyday\products\checkc
on

PROCEED TO CHECKOUT ✓

ABOUT
Find us and experience the best cakes and sweets! If you have any questions about our products, call us. We would love to hear from you!

LINKS
About
Contact Us
FAQ

CONTACT
+92433442977
hello@cakemyday.com

GET OUR APP
Get it on Google play

25 - Checkout (Billing Details) continued

PAY WITH PAYPAL

PayPal

Debit or Credit Card

Powered by **PayPal**

ABOUT
Find us and experience the best cakes and sweets! If you have any questions about our products, call us. We would love to hear from you!

LINKS
About
Contact Us
FAQ
Terms
Privacy Policy

CONTACT
+92433442977
hello@cakemyday.com

FOLLOW US
[f](#) [i](#) [y](#)

GET OUR APP
Get it on Google play

Cake my day
Pastry Shop

26 - Proceed to checkout

The screenshot shows a web application interface for managing user transactions. At the top, there is a navigation bar with links for 'Shop', 'Feedback', and a user profile icon labeled 'user3'. A dropdown menu from the profile icon includes options like 'Transactions History', 'Settings', and 'Log Out'. The main content area has a large orange gradient background with the text 'YOUR TRANSACTIONS' in white. Below this, a table lists a single transaction entry:

Name	Contact Email	Transaction amount	Date	Status
first	user3@gmail.com	930.00	2023-05-25 20:13:00	Sent for process

The screenshot shows the footer section of the website. It is divided into four columns: 'ABOUT', 'LINKS', 'CONTACT', and 'GET OUR APP'. The 'ABOUT' column contains a brief description of the company. The 'LINKS' column provides links to 'About', 'Contact Us', 'FAQ', and 'Terms'. The 'CONTACT' column includes a phone number (+492433442977) and an email address (hello@cakemyday.com). The 'GET OUR APP' column features a 'Get it on Google play' button with a small icon. Below the footer, there is a decorative graphic of a rabbit holding a cake.

27 - User Transactions History

The screenshot shows the 'SETTINGS' page. The title 'SETTINGS' is at the top, followed by the sub-instruction 'Update your account details'. Below this, there is a section titled 'ACCOUNT DETAILS' containing several input fields for updating account information. The fields include 'user3' (username), 'Address', 'Town / City', 'State / Country', '0' (likely a placeholder for a password or confirmation), and another '0' field.

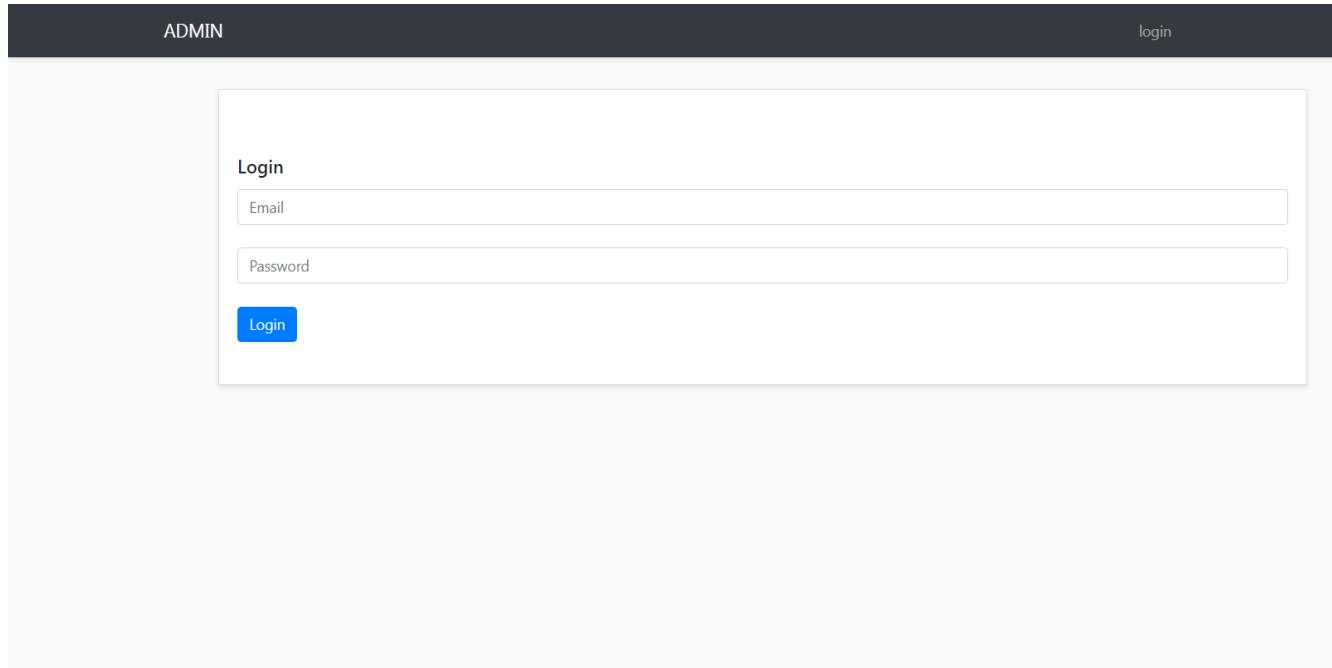
28 - User Setting (Account Details)

The screenshot shows a user profile page with the following elements:

- User Avatar:** A small icon of a cupcake labeled "cakemyday".
- User Name:** user3
- Notifications:** A red notification badge with the number 2.
- Profile Fields:** Three input fields for "First Name" (0), "Last Name" (0), and "Email" (.....).
- Update Button:** A red "UPDATE" button.
- Footer Content:**
 - ABOUT:** Text: "Find us and experience the best cakes and sweets! If you have any questions about our products, call us. We would love to hear from you!"
 - LINKS:** Links to "About", "Contact Us", "FAQ", "Terms", and "Privacy Policy".
 - CONTACT:** Text: "+492433442977" and "hello@cakemyday.com".
 - FOLLOW US:** Icons for Facebook (f), Instagram (i), and YouTube (y).
 - GET OUR APP:** A "Get it on Google play" button with the Google Play logo.
 - Logo:** The "cakemyday Pastry Shop" logo, featuring a cupcake with a cherry on top and the brand name in a stylized font.

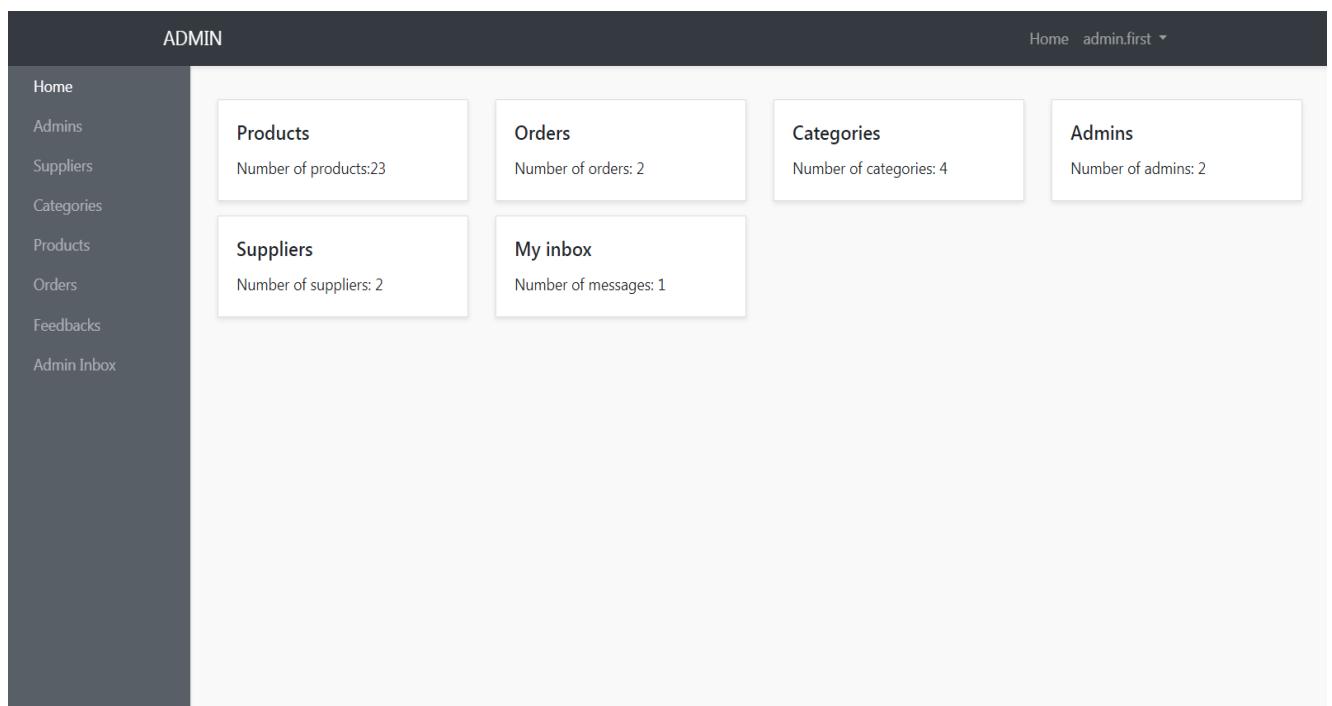
29 - User Settings Account Details(continued)

b) Admin Panel Structure



The image shows a simple login form titled "Login". It features two input fields: "Email" and "Password", both with placeholder text. Below the fields is a blue "Login" button. The entire form is contained within a white box with a thin gray border, which is itself centered on a light gray background.

30- Admin Login



The image displays the Admin Home Page after logging in. The top navigation bar includes the "ADMIN" title and a "login" link. On the left, a sidebar lists various admin functions: Home, Admins, Suppliers, Categories, Products, Orders, Feedbacks, and Admin Inbox. The main content area is divided into several cards:

- Products**: Number of products: 23
- Orders**: Number of orders: 2
- Categories**: Number of categories: 4
- Suppliers**: Number of suppliers: 2
- My inbox**: Number of messages: 1
- Admins**: Number of admins: 2

31-

Admin Home Page after login

The screenshot shows the 'ADMIN' interface with a sidebar on the left containing links: Home, Admins, Suppliers, Categories, Products, Orders, Feedbacks, and Admin Inbox. The main content area is titled 'Admins' and displays a table with two rows. The columns are '#', 'Admin Name', and 'Email'. Row 1: #1, admin.first, admin.first@gmail.com. Row 2: #2, admin.second, admin.second@gmail.com. A blue 'Create Admins' button is located in the top right corner of the content area.

#	Admin Name	Email
1	admin.first	admin.first@gmail.com
2	admin.second	admin.second@gmail.com

32-

Manage Admins

The screenshot shows the 'ADMIN' interface with a sidebar on the left containing links: Home, Admins, Suppliers, Categories, Products, Orders, Feedbacks, and Admin Inbox. The main content area is titled 'Create Admins' and contains three input fields: 'email', 'adminname', and 'password'. Below the fields is a blue 'Create' button.

Create Admins

33-

Create Admins

The screenshot shows the 'Suppliers' section of the PMS Documentation admin interface. On the left, there's a sidebar with links: Home, Admins, Suppliers, Categories, Products, Orders, Feedbacks, and Admin Inbox. The main area has a header 'Suppliers' and a blue button 'Create a new supplier account:'. Below is a table with two rows:

#	Name	Email	Delete
1	supplier	supplier.first@gmail.com	Delete
2	cake supplier	cakesupplier@gmail.com	Delete

34-

Admin manage suppliers

The screenshot shows the 'Create Supplier account' form. The sidebar is identical to the previous one. The main area has a header 'Create Supplier account' and three input fields: 'name', 'email', and 'password'. A blue 'Create' button is at the bottom.

35-

Create Supplier account

PMS Documentation

The screenshot shows the 'Categories' section of the PMS documentation. On the left, a sidebar menu lists 'Home', 'Admins', 'Suppliers', 'Categories', 'Products', 'Orders', 'Feedbacks', and 'Admin Inbox'. The main content area has a header 'Categories' and a 'Create Categories' button. Below is a table with four rows:

#	Name	Update	Delete
1	BAKED GOODS	<button>Update</button>	<button>Delete</button>
2	CAKE JARS	<button>Update</button>	<button>Delete</button>
3	CUPCAKES	<button>Update</button>	<button>Delete</button>
4	MACARONS	<button>Update</button>	<button>Delete</button>

36-

Categories

The screenshot shows the 'Update Category' page. The sidebar menu is identical to the previous page. The main content area has a header 'Update Category' and contains the following fields:

- A text input field containing 'BAKED GOODS'.
- A text input field containing 'bistro-muffin'.
- A text area labeled 'Description' containing the text 'Foods Made From Dough or Batter'.
- A blue 'Update' button at the bottom.

37-

Admin Update Category

PMS Documentation

ADMIN

Home admin.first ▾

Create Categories

name

icon

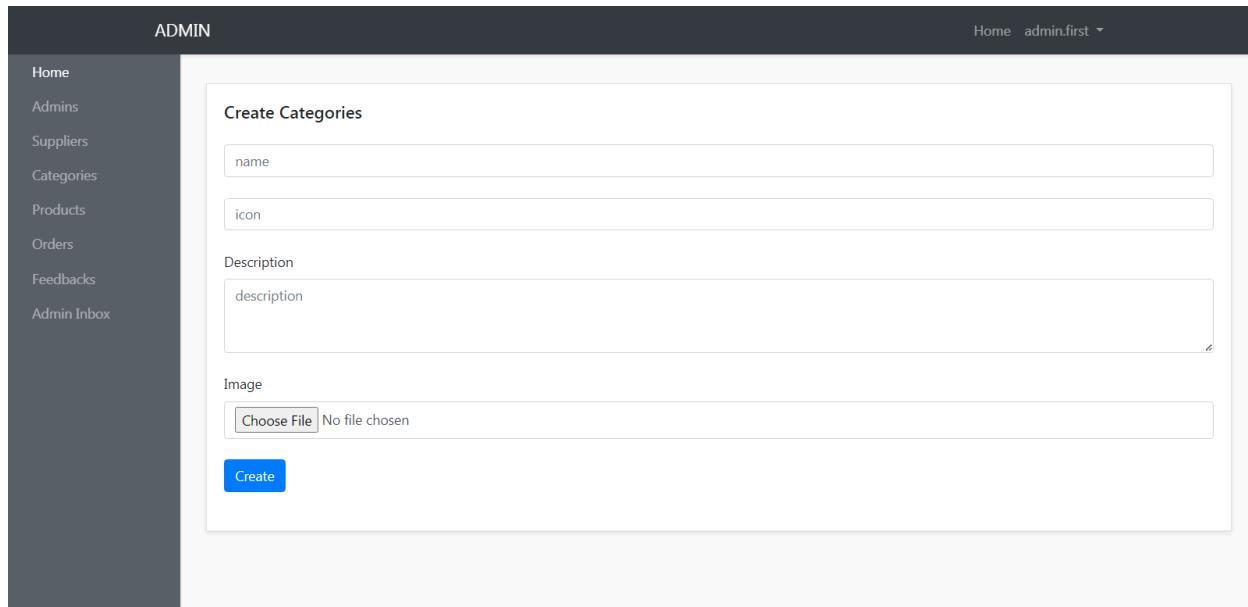
Description

description

Image

Choose File No file chosen

Create



38-

Admin Create Categories

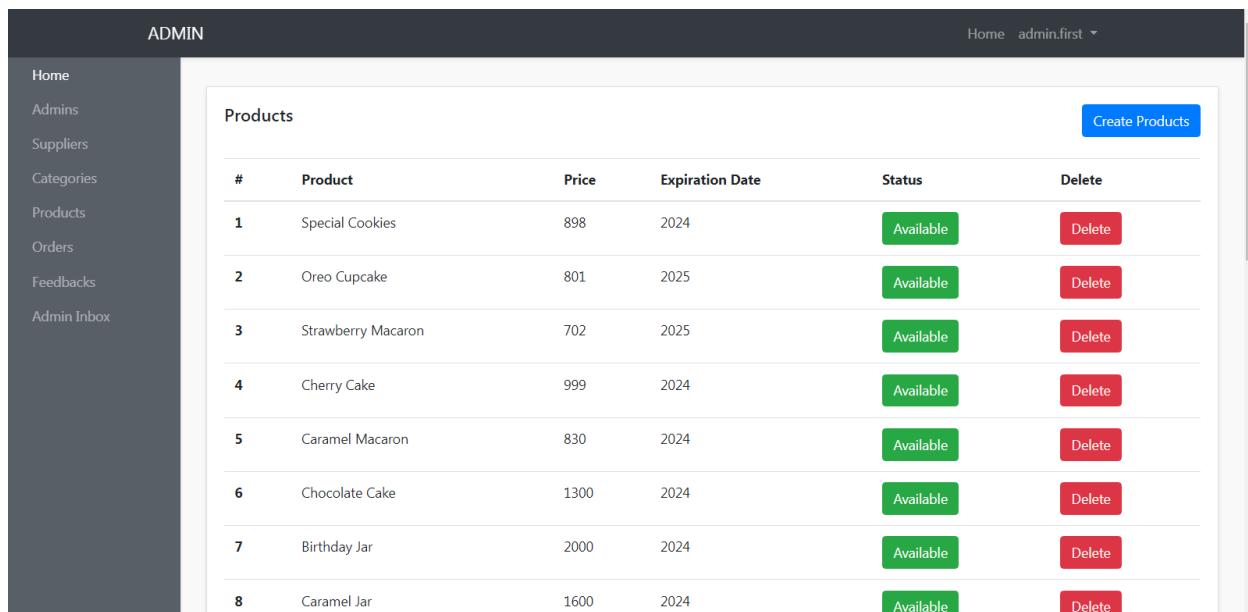
ADMIN

Home admin.first ▾

Products

Create Products

#	Product	Price	Expiration Date	Status	Delete
1	Special Cookies	898	2024	Available	Delete
2	Oreo Cupcake	801	2025	Available	Delete
3	Strawberry Macaron	702	2025	Available	Delete
4	Cherry Cake	999	2024	Available	Delete
5	Caramel Macaron	830	2024	Available	Delete
6	Chocolate Cake	1300	2024	Available	Delete
7	Birthday Jar	2000	2024	Available	Delete
8	Caramel Jar	1600	2024	Available	Delete



39-

Admin Manage Products

PMS Documentation

ADMIN						Home	admin.first ▾
		Product ID	Product Name	Quantity	Expiry Date	Status	Action
		9	Chocolate Cookie	800	2024	Available	Delete
		10	Chocolate Cupcake	750	2024	Available	Delete
		11	Chocolate Jar	1700	2024	Available	Delete
		12	Chocolate Macaron	900	2025	Available	Delete
		13	Lemon Cupcake	500	2024	Available	Delete
		14	Lemon Macaron	750	2024	Available	Delete
		15	Plain Cookie	700	2024	Available	Delete
		16	Oatmeal Cookie	850	2025	Available	Delete
		17	Oreo Cake	1500	2024	Available	Delete
		18	Oreo Jar	1650	2024	Available	Delete

40-

Admin Manage Products (Continued)

ADMIN						Home	admin.first ▾
		Product ID	Product Name	Quantity	Expiry Date	Status	Action
		15	Plain Cookie	700	2024	Available	Delete
		16	Oatmeal Cookie	850	2025	Available	Delete
		17	Oreo Cake	1500	2024	Available	Delete
		18	Oreo Jar	1650	2024	Available	Delete
		19	Raspberry Cookie	650	2024	Available	Delete
		20	Red Cupcake	600	2025	Available	Delete
		21	Strawberry Cake	1200	2024	Available	Delete
		22	Ube Jar	1200	2025	Available	Delete
		23	Vanilla Cupcake	500	2024	Available	Delete

41-

Admin Manage Products (Continued)

ADMIN

Home admin.first ▾

Create Products

Title

Price

Description

Select Category

Select Expiration Date

Image

42-

Admin Create New Products

ADMIN

Home admin.first ▾

Price

Description

Select Category

Select Expiration Date

Image
 No file chosen

Create

43-

Admin Creates New Products (Continued)

PMS Documentation

The screenshot shows the 'Orders' section of the PMS Documentation admin interface. The left sidebar has 'Orders' selected. The main content area displays a table with two rows of order data:

#	First Name	Email	Price	Status	Date	Update	Delete
1	user	user2@gmail.com	8032.00	Sent for process	2023-05-28 20:00:07	<button>Update</button>	<button>Delete</button>
2	first	user3@gmail.com	930.00	Sent for process	2023-05-25 20:13:00	<button>Update</button>	<button>Delete</button>

44-

Admin Manage Orders

The screenshot shows the 'Update Order Status' section of the PMS Documentation admin interface. The left sidebar has 'Orders' selected. The main content area contains a form with a dropdown menu labeled '--Select order status--' and a blue 'Update' button.

45-

Admin Update Order Status

The screenshot shows the 'Feedbacks' section of the PMS Documentation Admin interface. On the left, a sidebar menu lists various admin functions: Home, Admins, Suppliers, Categories, Products, Orders, Feedbacks, and Admin Inbox. The main content area is titled 'Feedbacks' and contains a table with one row of data. The table columns are labeled: #, Username, Email, Visit, Service, Ordering, Order Again, Rate, and Date. The single row of data is: #1, Username: user2, Email: user2@gmail.com, Visit: Yes, Service: Excellent, Ordering: Easy, Order Again: Yes, Rate: 4, and Date: 2023-05-19 23:00:25. A blue 'Filter Feedbacks' button is located in the top right corner of the content area.

46-

Users Feedbacks

The screenshot shows a modal window titled 'Choose feedback's rating'. Inside the modal, there are two blue buttons: 'Good Feedbacks' and 'Bad Feedbacks'. The background of the main content area is dimmed, indicating the modal is active. The sidebar menu on the left remains visible.

47-

Admin Choose feedback's rating

PMS Documentation

The screenshot shows the 'Good Feedbacks' section of the PMS Documentation. The left sidebar has 'Feedbacks' selected. The main content area displays a table titled 'Good Feedbacks' with the following data:

#	Username	Email	Visit	Service	Ordering	Order Again	Rate	Date
1	user2	user2@gmail.com	Yes	Excellent	Easy	Yes	4	2023-05-19 23:00:25

48-

Good Feedback

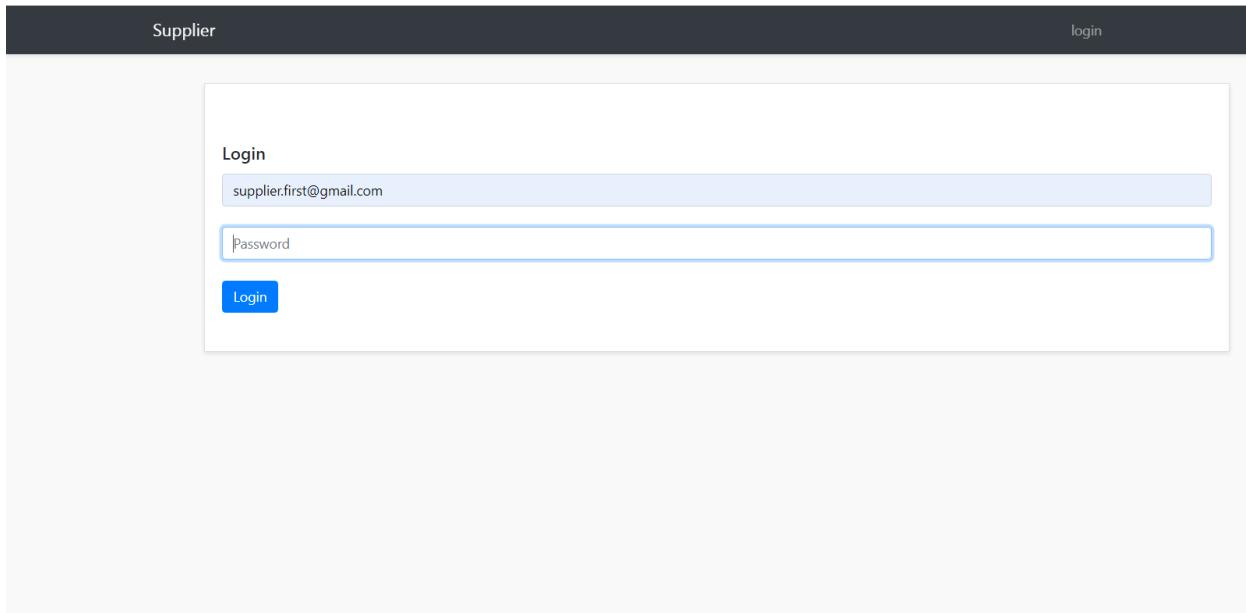
The screenshot shows the 'Inbox' section of the PMS Documentation. The left sidebar has 'Admin Inbox' selected. The main content area displays a table titled 'Inbox' with the following data:

#	Full Name	Email	Message Details	Date
1	test fullname	testemail@gmail.com	test text	2023-05-23 18:58:11

49-

Admin Inbox

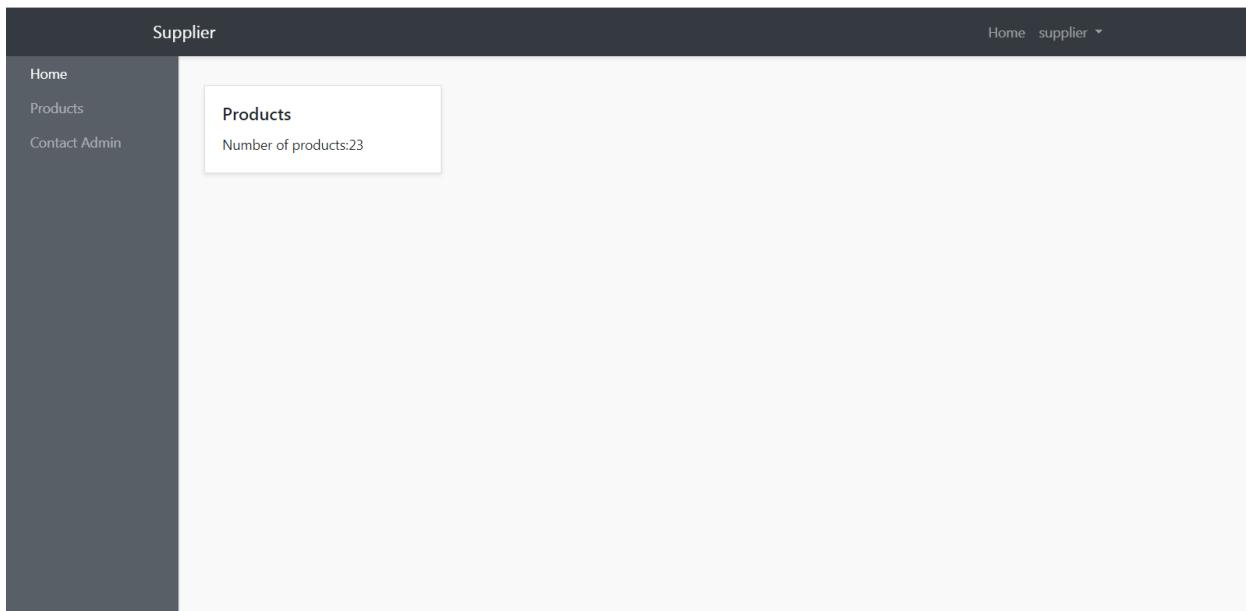
c) Supplier Panel Structure



The image shows a screenshot of a login interface. At the top, there is a dark header bar with the word "Supplier" on the left and a "login" link on the right. Below this is a white content area containing a "Login" form. The form has two input fields: one for "Email" containing "supplier.first@gmail.com" and another for "Password". Below the password field is a blue "Login" button.

50-

Supplier Login



The image shows a screenshot of a supplier's home page. At the top, there is a dark header bar with the word "Supplier" on the left and navigation links "Home", "supplier", and a dropdown menu on the right. The main content area features a sidebar on the left with links for "Home", "Products", and "Contact Admin". The main content area itself has a white background with a box containing the heading "Products" and the text "Number of products:23".

51-

Supplier Home Page

PMS Documentation

Supplier					
		Products			
#	Product	Price	Quantity	Expiration Date	Update
1	Special Cookies	898	14	2024	<button>Update</button>
2	Oreo Cupcake	801	2	2025	<button>Update</button>
3	Strawberry Macaron	702	3	2025	<button>Update</button>
4	Cherry Cake	999	3	2024	<button>Update</button>
5	Caramel Macaron	830	1	2024	<button>Update</button>
6	Chocolate Cake	1300	1	2024	<button>Update</button>
7	Birthday Jar	2000	1	2024	<button>Update</button>
8	Caramel Jar	1600	1	2024	<button>Update</button>

52-

Supplier Manage Products

Supplier					
		Products			
#	Product	Price	Quantity	Expiration Date	Update
9	Chocolate Cookie	800	1	2024	<button>Update</button>
10	Chocolate Cupcake	750	1	2024	<button>Update</button>
11	Chocolate Jar	1700	1	2024	<button>Update</button>
12	Chocolate Macaron	900	1	2025	<button>Update</button>
13	Lemon Cupcake	500	1	2024	<button>Update</button>
14	Lemon Macaron	750	1	2024	<button>Update</button>
15	Plain Cookie	700	1	2024	<button>Update</button>
16	Oatmeal Cookie	850	1	2025	<button>Update</button>
17	Oreo Cake	1500	1	2024	<button>Update</button>
18	Oreo Jar	1650	1	2024	<button>Update</button>

53-

Supplier Manage Products(continued)

Supplier					Home	supplier
Home	15	Plain Cookie	700	1	2024	<button>Update</button>
Products	16	Oatmeal Cookie	850	1	2025	<button>Update</button>
Contact Admin	17	Oreo Cake	1500	1	2024	<button>Update</button>
	18	Oreo Jar	1650	1	2024	<button>Update</button>
	19	Raspberry Cookie	650	1	2024	<button>Update</button>
	20	Red Cupcake	600	1	2025	<button>Update</button>
	21	Strawberry Cake	1200	1	2024	<button>Update</button>
	22	Ube Jar	1200	1	2025	<button>Update</button>
	23	Vanilla Cupcake	500	1	2024	<button>Update</button>

54-

Supplier Manage Products(continued)

Supplier

Update Product

Quantity:

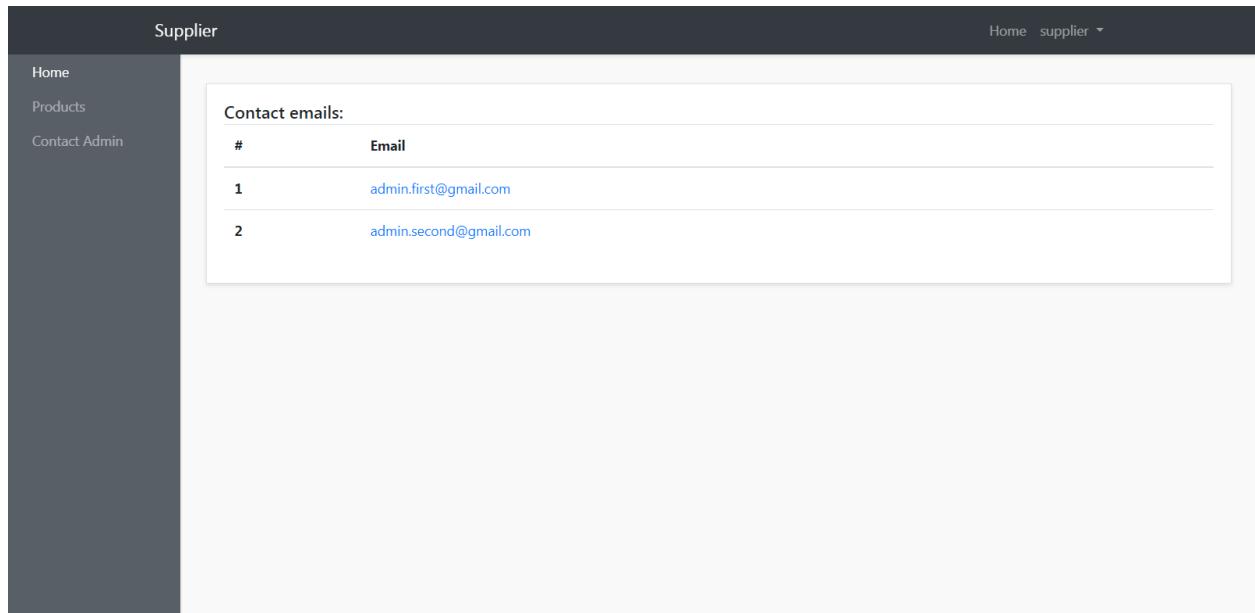
Price:

898

Update

55-

Supplier Update Product



56-

Supplier Contact Admin

6. Project Planning

Network Analysis

Project Name: PMS (Pastry Management System)

Members: Ariola Lami, Ilvana Dollaroviq, Kejda Balla, Sara Qirko

Real start and end days: 23.03.2018 – 09.06.2018

Estimated start and end days: 23.03.2018 – 24.08.2018

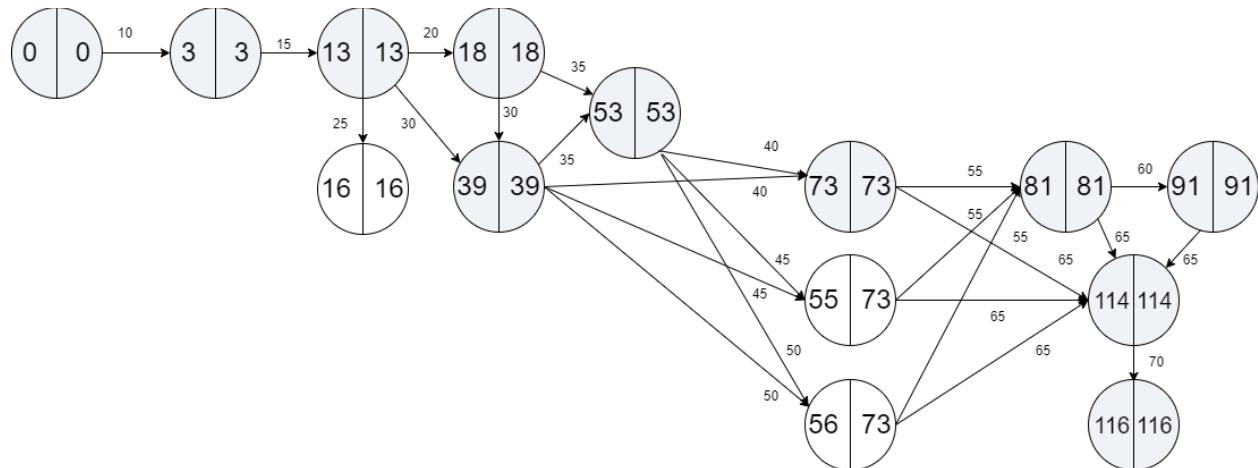
Real total days: 48 days

Estimated total days: 124 days

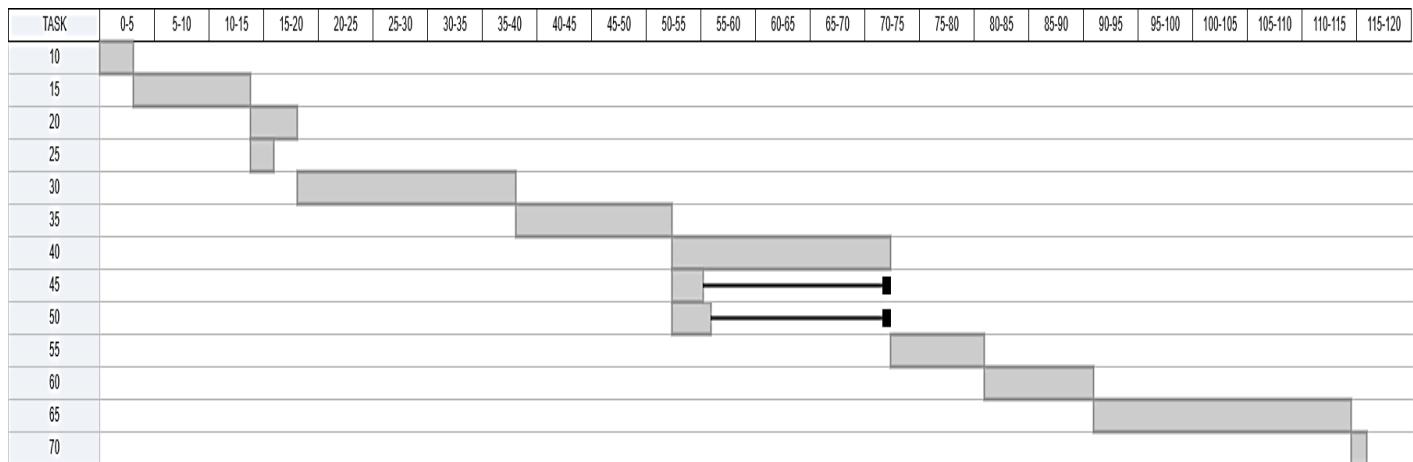
Nr	Activity	Duration (Days)	Dependencies
10	Topic choosing process	3	-
15	Study and Analysis of the project	10	10
20	Project Description	5	15
25	Sketch Designs	3	15
30	Total Requirements (Non-Functional, Functional, Domain)	21	15, 20
35	User scenarios and user cases	14	20, 30

40	Use Case Diagram Activity Diagram State Diagram	20	30,35
45	Database Relational Schema Entity Relation Diagram	2	30,35
50	Data Flow Diagram	3	30,35
55	Sequence Diagrams Collaboration Diagrams	8	40,45,50
60	Class Diagram Package Diagram Component Diagram Deployment Diagram	10	55
65	Programming	23	40, 45, 50, 55,60
70	Installation	2	65

Network



Gantt Chart



7. Appendix

Appendix A

List of Abbreviations

AD - Activity Diagram
CD – Class Diagram
COD – Component Diagram
CLD_ – Collaboration Diagram
DD – Deployment Diagram
ERD – Entity Relation Diagram
FR - Functional Requirement
PDF – Portable Document Format
PMS – PASTRY MANAGEMENT SYSTEM
SD - State Diagram
SED- Sequence Diagram
UC - User Case/ Use Case
UI – User Interface
US - User Scenario

Appendix B

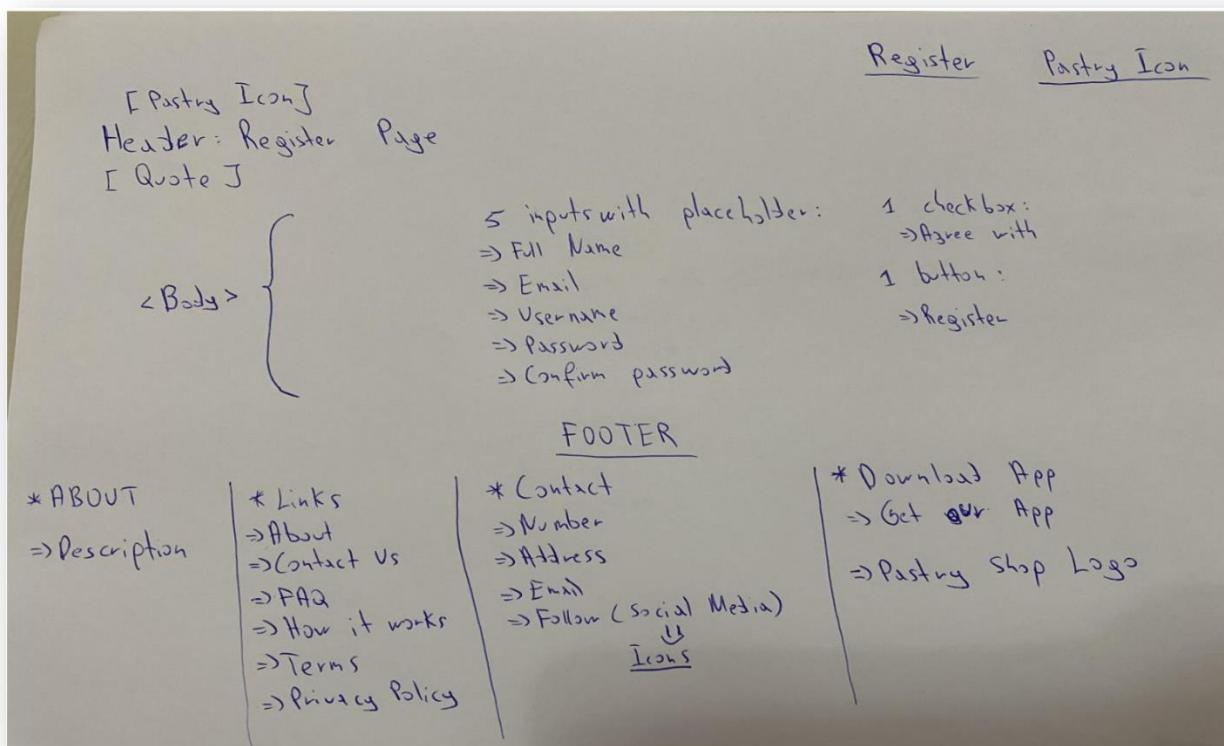
References

- [O2System UI] <http://o2system.id/>
- [Bootstrap] <http://getbootstrap.com/>
- [Popper.js] <https://popper.js.org/>
- [jQuery] <https://jquery.com/>
- [Pace] <https://github.com/HubSpot/pace>
- [Owl Carousel] <https://github.com/OwlCarousel2/OwlCarousel2>
- [Cloud Zoom] <https://github.com/smurfy/cloud-zoom>
- [Sass/SCSS] <http://sass-lang.com/>
- [Font Awesome 5] <http://fontawesome.com>

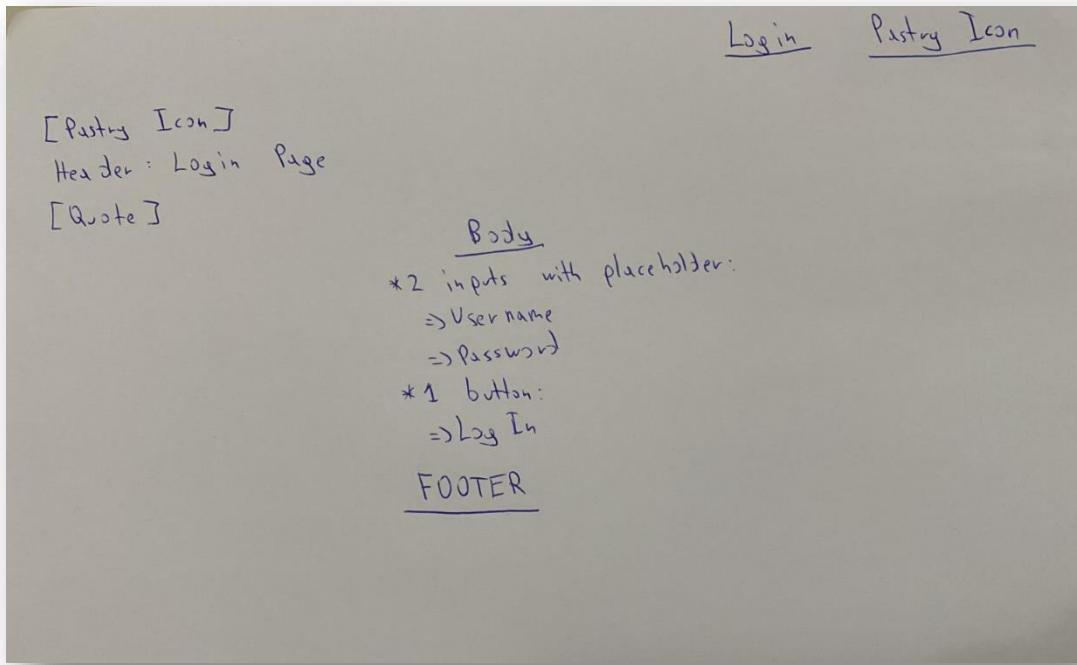
Appendix C

Sketches

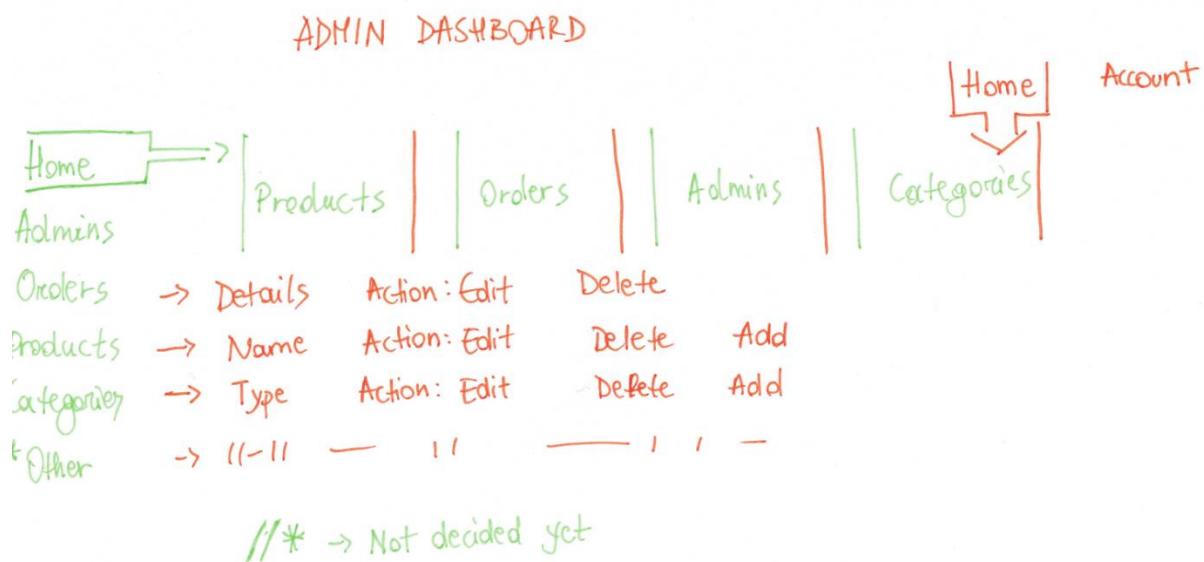
Sketch 1 – Register



Sketch 2 – Log In



Sketch 3 – Admin



PMS Documentation

Sketch 4 - Website



WHY TO CHOOSE 'CAKE MY DAY'?

Reason 1

Reason 2

Reason 3

...

CATEGORIES

- * Cheesecake
 - * Wedding Cake
 - * Biscuits
 - * Other sweets
- ⇒ Buttons : navigate to 'Shop' Page.

FOOTER

<p>* Review Section or just 'Logo'</p>	<p>LINKS</p> <p>⇒ About</p> <p>⇒ Terms & Privacy</p> <p>⇒ Contact</p> <p>⇒ FAQs</p> <p>⇒ Other</p>	<p>CONTACT</p> <p>* Number</p> <p>* Address</p> <p>* Email</p> <p>FOLLOW</p> <p>→ Social media</p>	<p>* Other .</p>

// → Not horizontal yet

Sketch 4- Supplier

