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Description automatically generated

Interior Quotation System

Software Requirement Specification

Project Code: <Code of the project>

Document Code: <Code of the document >– v<x.x>

* **Ho Chi Min City, 25 February 2024 -**

Record of change

\*A - Added M - Modified D - Deleted

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| --- | --- | --- | --- | --- |
| Effective Date | Changed Items | A\* M, D | Change Description | New Version |
| 13/01/2024 | Initial | a | Add project overview |  |
| 21/01/2024 |  |  |  |  |
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# Introduction

## Purpose

The purpose of this Software Requirements Specification (SRS) document is to outline the functional and non-functional requirements of an Interior Construction Quotation System. This document serves as a guide for the development team to understand the scope of the project, the features to be implemented, and the constraints under which the system will operate.

## Scope

The Interior Construction Quotation System aims to streamline the process of providing quotes for interior construction projects. It encompasses various functionalities including:

* Information page showcasing implemented interior construction projects, news, and experience-sharing blog.
* Standard quote viewing for interior construction projects.
* Estimation of preliminary construction price based on selected parameters such as product, style, material, and size.
* Management of the quote process from customer request to contract confirmation.
* Dashboard and reporting capabilities for customer statistics, quotes, and other relevant data.

## Definitions, Acronyms, and Abbreviations

* SRS: Software Requirements Specification
* UI: User Interface
* API: Application Programming Interface
* CRM: Customer Relationship Management
* ERP: Enterprise Resource Planning

## References

* Software Requirements Specifications Document

The primary document outlining the software requirements and specifications for the project.

* La Nha Interior Design

Reference to the La Nha Interior Design company, possibly for design guidelines or inspiration.

* Manh He Interior Design

Reference to the Manh He Interior Design company, potentially for design considerations or insights.

## Overview

The Interior Construction Quotation System is a comprehensive software solution designed to facilitate the entire process of obtaining quotes for interior construction projects. From presenting past projects and industry news to generating standard quotes and estimating preliminary construction costs, the system aims to provide a seamless experience for both customers and construction professionals.

By centralizing customer requests, managing the quote process, and offering insights through dashboards and reports, the system enhances efficiency and transparency in the interior construction industry. Throughout this document, detailed requirements will be outlined to ensure the successful development and deployment of the system.

# Overall Description

[This section of the SRS describes the general factors that affect the product and its requirements. This section does not state specific requirements. Instead, it provides a background for those requirements, which are defined in detail in Section 3, and makes them easier to understand. Include such items as:

• product perspective

• product functions

• user characteristics

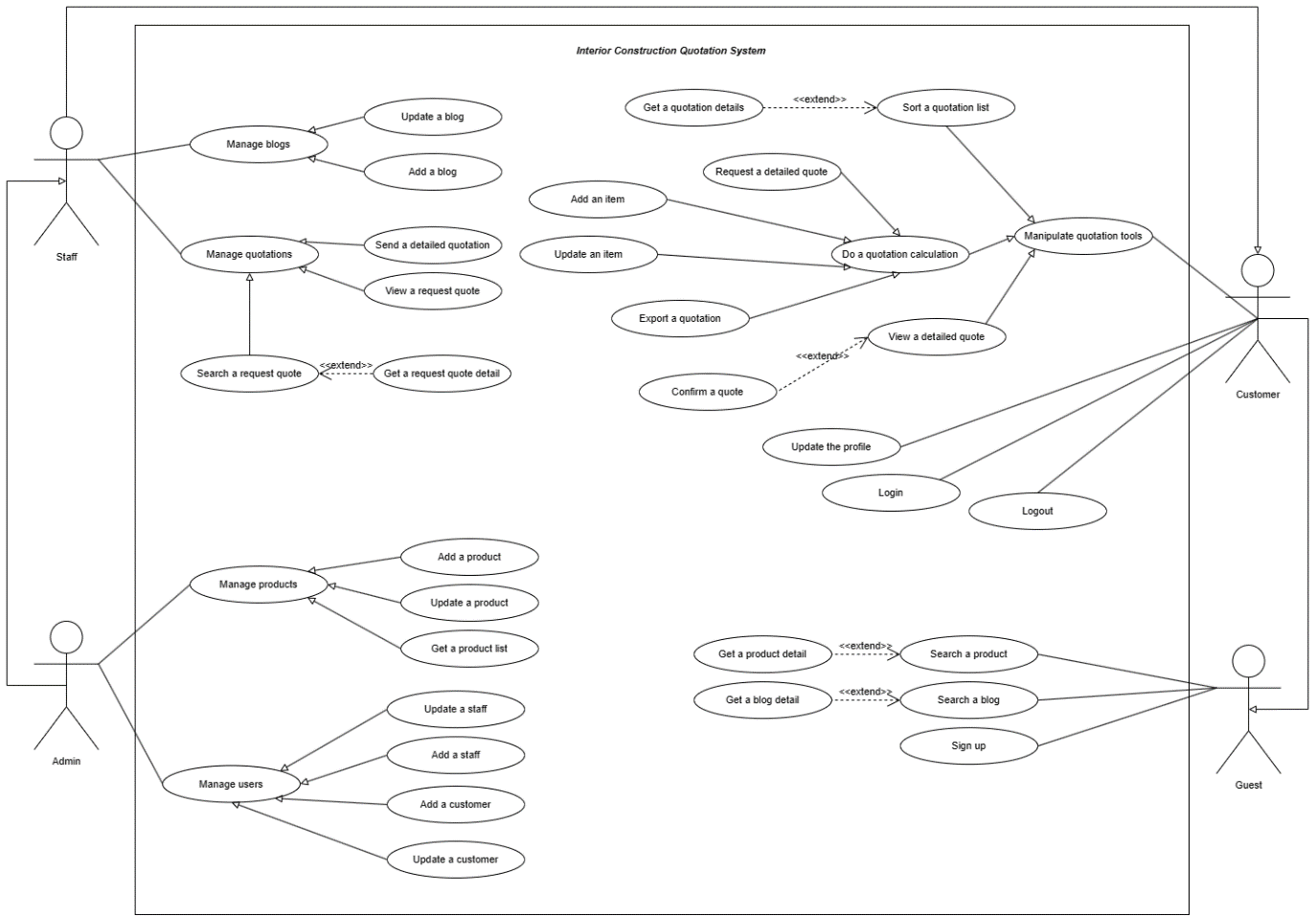
• constraints

• assumptions and dependencies

• requirements subsets]

# FUNCTIONAL Requirements

## Use case diagram



## Register

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE-1 SPECIFICATION** | | | | |
| **Use-case No.** | <UC001> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Register | | | |
| **Author** | Tran Anh Toan | | | |
| **Date** | 13/01/2024 | **Priority** | High | |
| **Actor:**  Customer, Guest  **Summary:**  This feature allows a customer to create a new account to become candidate or  enterprise in the system.  **Goal:**  The customer successfully registered for an account and customer can login to the system.  **Triggers**  The Customer wants to register an account.  **Preconditions:**  The Customer has an email or a Google Account that can be used to receive the OTP number.  **Post Conditions:**   * **Success:** Redirect to the member profile page * **Fail:** System shows an error message corresponding to error code   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In login page, the actor  selects the tab “Đăng Ký” | System shows a form with these fields:  - Phone number: number text input,  required, length 9 – 11  - Username: text and number input, no space between, no special character length 6-15  - Password: text and number input, require one or many special characters  - OTP number: number text input, required, length 6  **[Exception 3]** | | **2** | The actor inputs his/her information following the above form |  | | **3** | The actor clicks on “Gửi mã xác thực” | System validates his/her email and invoke 3rd service send an OTP number to the actor's email. System show a message “Mã OTP đã được gửi tới email của bạn”  **[Exception 1,2]** | | **4** | The actor enters the OTP number |  | | **5** | The actor clicks on “Đăng ký Tài Khoản” | System checks the OTP numbers. If it is  correct, create a new account and redirect to the profile page.  **[Exception 4,5]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**     |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Email existed in the system | System shows error message: “Email đã tồn tại trong hệ thống”. | | **3** | Username existed in the system | System shows error message: “Tài khoản đã tồn tại trong hệ thống”. | | **4** | OTP number is expired | System shows error message: “Mã xác thực đã hết hiệu lực”. customer's email. System show a message “Mã OTP đã được gửi tới email của bạn” | | **5** | OTP number is not correct | System shows error message: “Mã xác thực không đúng”. |   **Relationships:**  **N/A**  **Business Rules:**   * The OTP input consists of 6 positive numbers and is valid in 10 minutes. * If the actor input the wrong OTP 5 times, his/her email will be locked from the system in 10 minutes. * After signing up successfully, status of the actor’s account is “inactive” and he/she need to update the profile to become “active”. | | | | |

## Login

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| **USE CASE-2 SPECIFICATION** | | | | |
| **Use-case No.** | <UC002> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Login | | | |
| **Author** | Tran Anh Toan | | | |
| **Date** | 13/01/2024 | **Priority** | High | |
| **Actor:**  Customer  **Summary:**  This feature allows a customer to login to the website.  **Goal:**  The customer Successfully logged in to the website.  **Triggers**  The customer wants to authorize to the system so that he/she could access more functions as a member.  **Preconditions:**  The customer has created an account on the website.  **Post Conditions:**   * **Success**: System redirects the customer to the dashboard home page * **Fail**: System informs a message corresponding error code   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In login page, the actor inputs his/her username and password | System shows a form with these fields:  - Username: text and number input, no space between, no special character length 6-15  - Password  **[Exception 1]** | | **2** | The actor clicks on “Đăng Nhập” | System checks his/her username and password, if they are correct then redirect the actor to the home page.  **[Exception 2,3]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**     |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Username not existed in the system | System shows error message: “Tài khoản không tồn tại trong hệ thống”. | | **3** | Incorrect password | System shows error message: “Mật khẩu không chính xác, vui lòng nhập lại”. |   **Relationships:**  **N/A**  **Business Rules:**   * If the actor inputs wrong password 5 times for 1 username, his/her account will be locked for 10 minutes. | | | | |

## Logout

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| **USE CASE-3 SPECIFICATION** | | | | |
| **Use-case No.** | <UC003> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Logout | | | |
| **Author** | Tran Anh Toan | | | |
| **Date** | 13/01/2024 | **Priority** | High Customer | |
| **Actor:**  Customer  **Summary:**  This feature allows a customer to clear current season and become a guest.  **Goal:**  The Customer can log out of his/her account from the website.  **Triggers**  The customer wants to sign out current account.  **Preconditions:**  The customer has login into the system.  **Post Conditions:**       • **Success:** System redirects the customer to the login page       • **Fail:** System informs an error message “Có lỗi xảy ra! Vui lòng thử lại sau”  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In the dashboard home page, the actor clicks on “Đăng xuất” | System calls browser API to clear the local storage in client and sign out the session.  **[Exception 1]** | | **2** |  | Redirect the actor to the login page. |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | User session already timeout | System shows error message “Có lỗi xảy ra khi đăng xuất”. |   **Relationships:**  <List the relationships that use case relates to>  **Business Rules:**   * In addition to the JWT token information, other information related to the user must be deleted from the client when logging out. | | | | |

## Update Profile

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| --- | --- | --- | --- | --- |
| **USE CASE-4 SPECIFICATION** | | | | |
| **Use-case No.** | <UC004> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Update profile | | | |
| **Author** | Tran Anh Toan | | | |
| **Date** | 13/01/2024 | **Priority** | Medium | |
| **Actor:**  Customer  **Summary:**  This feature allows customer to update some or all their information.  **Goal:**  Customers can edit their personal information according to their needs.  **Triggers**  Customer wants to update some or all their information.  **Preconditions:**   * Customer has logged in by an enterprise account. * Customer has activated their basic information.   **Post Conditions:**   * **Success:** The system updates enterprise information in the database. Then, shows a successful message in the pop-up. * **Fail:** The system shows a specific error message in pop-up.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In the dashboard home page, the actor clicks on “Thông tin cá nhân”  **[Alternative 1]** | System shows a form with these fields:  - Username: show current username, cannot edit  - Full name: text input, required,  max-length 100  - Email: show current email, can edit  - Password: show hidden password  - A button “Đổi mật khẩu” for edit password  - Phone number: number text input, length 9-11, start with 0  **[Exception 1]** | | **2** | The actor clicks on “Lưu thông tin” button to update the informations | System saves update and show a success message “Cập nhật thành công”. |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor clicks on “Đổi mật khẩu” tab | System shows a form with these fields:  - Current password: match current password, required  - New password: text and number input, require one or many special characters, required  - Confirm new password: match the new password, required  **[Exception 1,2]** | | **2** | The actor clicks on “Lưu mật khẩu” button | System saves the update information and show a message “Cập nhật thành công”. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Current password is incorrect | System shows error message “Sai mật khẩu” | | **3** | Password confirmation doesn’t match the new password | System shows error message “Mật khẩu mới không trùng khớp” |   **Relationships:**  **N/A**  **Business Rules:**   * Only the customer that has activated his/her basic information are allowed to update his/her personal information. | | | | |

## Search a product

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| **USE CASE-5 SPECIFICATION** | | | | |
| **Use-case No.** | <UC005> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Search a product | | | |
| **Author** | Pham Chi Cuong | | | |
| **Date** | 21/01/2024 | **Priority** | Medium | |
| **Actor:**  Customer, Guest  **Summary:**  This feature allows the actors to find a specific product within the interior construction quotation system.  **Goal:**  The actors locate a desired product within the system's database.  **Triggers**  The actors want to search for a product for their interior construction project.  **Preconditions:**   * Customer is logged into the interior construction quotation system (optional). * The system has a database of products.   **Post Conditions:**   * **Success:** The system shows products that customer searched. * **Fail:** system show error message   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | Actor selects tab “Sản phẩm” | System redirects to the product page and show a list of available products. | | **2** | In product page, the actor inputs relevant keywords into the product search text box | System shows a hide suggestion text for search in the search product textbox is “Tên sản phẩm” | | **3** | The actor clicks on search icon or press “enter” key. | System shows a list of products that match with keywords, each product card shows:  - Product name - Product short description - Product image.  **[Exception 1]** | | **4** | The actor choose options in filters according category, room,.. and sorters | System shows a list of products that match actor requires |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Result is empty | System shows informs “Rất tiếc chúng tôi không tìm thấy kết quả theo yêu cầu của bạn” |   **Relationships:**  **N/A**  **Business Rules:**   * The result products response to the actor if the keyword is in the name of the product * The default value of sorter are: “Sản phẩm mới“ and ”Hiển thị 9” | | | | |

## Get a product details

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| **USE CASE-6 SPECIFICATION** | | | | |
| **Use-case No.** | <UC006> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Get a product details | | | |
| **Author** | Pham Chi Cuong | | | |
| **Date** | 21/01/2024 | **Priority** | Medium | |
| **Actor:**  Customer, Guest  **Summary:**  This feature allows the actors to view detailed information about a specific product offered for interior construction.  **Goal:**  Provide the actors with details about a particular product.  **Triggers**  The actors want to view detail information of a product.  **Preconditions:**   * The actors must have navigated to the product detail page.   **Post Conditions:**   * **Success:** Show detail information of a specific product. * **Fail:** Show not found page if the product is not existed.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actors click on product card.  **[Alternative 1]** | Redirect to the product detail information page. The website shows a product detail information following:  - Product name - Unit  - Product description  - Product category  - Product style  - Product room |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In browser search box, the actors enter a links of  product detail with format  “vivadecor.com/product/search/  {productId}” | Redirect to product detail information page. The website shows a product detail information following:  - Product name - Unit  - Product description  - Product category  - Product style  - Product room  **[Exception 1]** |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Product not found in the database | Redirect to not found page (404) |   **Relationships:**  **Search a product**  **Business Rules:**   * The system must keep track of the number of views of the product | | | | |

## Search a blog

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| --- | --- | --- | --- | --- |
| **USE CASE-7 SPECIFICATION** | | | | |
| **Use-case No.** | <UC007> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Search a blog | | | |
| **Author** | Pham Chi Cuong | | | |
| **Date** | 21/01/2024 | **Priority** | Medium | |
| **Actor:**  Customer, Guest  **Summary:**  The feature allows the actors to find a specific blogs within the interior construction quotation system.  **Goal:**  The actors locate a desired blogs within the system's database.  **Triggers**  The actors want to search for an available blog.  **Preconditions:**   * The system has a database of the blog. * The actors navigate to the blog tab.   **Post Conditions:**   * **Success:** The system shows a blog that customer searched. * **Fail:** system show an error message   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actors select tab “Tin tức” | System redirects to the blogs page and show a list of available blogs. | | **2** | In blogs page, the actor input relevant keywords into the product search text box | System shows a hide suggestion text for search in the search product textbox is “Tên tin tức” | | **3** | The actors click on search icon or press “enter” key. | System shows a list of blogs that match with keywords.  **[Exception 1]** | | **4** | The actors choose options in filters sorters | System shows a list of blogs that match actor requires |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Result is empty | System shows informs “Rất tiếc chúng tôi không tìm thấy kết quả theo yêu cầu của bạn” |   **Relationships:**  **N/A**  **Business Rules:**   * The result blogs responded to the actor if the keyword is in the tilte of the blogs. * The default value of sorter are: “Bài viết phẩm mới“ and ”Hiển thị 9” | | | | |

## Get a blog details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE-8 SPECIFICATION** | | | | |
| **Use-case No.** | <UC008> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Get product detail | | | |
| **Author** | Pham Chi Cuong | | | |
| **Date** | 21/01/2024 | **Priority** | Medium | |
| **Actor:**  Customer, Guest  **Summary:**  This feature allows the actors to view a detailed information about a specific blog offered for interior construction.  **Goal:**  Provide the actors with details about a particular blog.  **Triggers**  The actors want to view detail information of a blog.  **Preconditions:**   * The actors must have navigated to the blog detail page.   **Post Conditions:**   * **Success:** Show detail information of a blog. * **Fail:** Show not found page if the blog is not existed.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actors click on a blog card.  **[Alternative 1]** | Redirect to the blog detail information page. The website shows the blog details information following:  - Blog title - Date created  - Blog Author  - Blog content |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In browser search box, the actors enter a links of  blog detail with format  “vivadecor.com/blog/search/  {blogId}” | Redirect to the blog detail information page. The website shows the blog details information following:  - Blog title - Date created  - Blog Author  - Blog content  **[Exception 1]** |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Blog not found in the database | Redirect to not found page (404) |   **Relationships:**  **Search a blog**  **Business Rules:**   * The system must keep track of the number of views of the blog | | | | |

## Sort a quotation list

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| --- | --- | --- | --- | --- |
| **USE CASE-9 SPECIFICATION** | | | | |
| **Use-case No.** | <UC009> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Sort quotation list | | | |
| **Author** | Pham Chi Cuong | | | |
| **Date** | 22/01/2024 | **Priority** | High | |
| **Actor:**  Customer  **Summary:**  The feature allows a customer to sort specific list of quotation he/she has within the interior construction quotation system.  **Goal:**  The customer sort desired quotation within the system's database.  **Triggers**  The customer wants to view their quotations list they has done before.  **Preconditions:**   * The customer is logged into the interior construction quotation system. * The system must have existing quotations match with the customer stored in the database.   **Post Conditions:**   * **Success:** The system shows a list of quotations customer has is sorted. * **Fail:** system show error message   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor selects tab “Quản lý báo giá” in user dashboard tab | System redirects to the quotation list page and show a list of history quotation requested. | | **2** | In quotation list page, actor choose option sort filter by date range | System shows a list of quotation that match the actor requires.  System shows each quotation preview info following: - Quotation Id - Quotation date created - Quotation last date change - Quotation status  **[Exception 1]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Result is empty | System shows informs “Rất tiếc chúng tôi không tìm thấy kết quả theo yêu cầu của bạn” |   **Relationships:**  **N/A**  **Business Rules:**   * The result quotations responded to the actor if sort of data match the date of created of the quotations. * The default value of sorter are: “Báo giá gần đây“ and ”Hiển thị 9” | | | | |

## Get a quotation details

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| --- | --- | --- | --- | --- |
| **USE CASE-10 SPECIFICATION** | | | | |
| **Use-case No.** | <UC0010> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Get a quotation details | | | |
| **Author** | Nguyen Cong Chien | | | |
| **Date** | 21/01/2024 | **Priority** | Medium | |
| **Actor:**  Customer  **Summary:**  This feature allows the customer to view detailed information about a specific quotation requested by the customer.  **Goal:**  Provide the customer with details about a particular quotation.  **Triggers**  The customer wants to view detail information of quotation.  **Preconditions:**   * The customer must has navigated to the quotation detail page. * The customer is logged into the interior construction quotation system. * The customer must has requested for quotation details.   **Post Conditions:**   * **Success:** Show detail information of a quotation. * **Fail:** Show not found page if the quotation is not existed.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor clicks on a quotation card.  **[Alternative 1]** | Redirect to the quotation detail information page. The website shows the quotation detail information:  - Quotation id - Quotation date created  - Quotation date last modified  - Quotation Author  - Customer information  - List of product listed in the quotation with estimated price and detailed price |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In browser search box, the actor enter a links of  blog detail with format  “vivadecor.com/quotation/search/  {quotationId}” | Redirect to the quotation detail information page. The website shows the quotation detail information:  - Quotation id - Quotation date created  - Quotation date last modified  - Quotation Author  - Customer information  - List of product listed in the quotation with estimated price and detailed price  **[Exception 1]** |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Quotation not found in the database | Redirect to not found page (404) |   **Relationships:**  **Sort a quotation list**  **Business Rules:**   * The system must keep track of the number of views of the quotation | | | | |

## Add an item

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| **USE CASE-11 SPECIFICATION** | | | | |
| **Use-case No.** | <UC0011> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Add an item | | | |
| **Author** | Nguyen Cong Chien | | | |
| **Date** | 21/01/2024 | **Priority** | High | |
| **Actor:**  Customer  **Summary:**  This feature allows a customer adds an item to a quotation calculation for interior construction.  **Goal:**  The Customers customize their interior construction project by selecting specific items and parameters, thereby generating an estimated quotation.  **Triggers**  The customer wants to do calculation for estimated price quotation for their interior construction project.  **Preconditions:**   * The customer must have navigated to the quotation calculation page. * The customer is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** Show list of products and estimated price for all product and total estimated price. * **Fail:** Show error a message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor selects tab “Tính báo giá” in the dashboard hompage | System shows quotation table with the following columns: - Product Name - Description - Height - Length - Width - Unit - Estimated price  - Product picture | | **2** | The actor clicks on “+” button to add a product to the table | System add 1 row to the table and lets user select product following: - Product Name: dropdown list of products exist in the database - Description: dropdown list of description of a specific product - Height: could be edit for some products - Length: could be edit for some products - Width: could be edit for some products - Unit: cannot edit - Estimated price: system calculate base on parameters actor has chosen - Product picture: cannot edit | | **3** | The actor selects the desired parameters for product | System calculate and update the price of the product and total price of all products **[Exception 1, 2, 3]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | The actor’s input exceeds the allowed size of a product | System shows informs “Kích thước vượt quá giới hạn cho phép vui lòng nhập lại” | | **2** | Product’s size is null | System shows informs “Thiếu thông tin kích thước” | | **3** | Product’s description is null | System shows informs “Thiếu thông tin mô tả” |   **Relationships:**  <List the relationships that use case relates to>  **Business Rules:**   * Only customers have active their account can you this feature. * System calculates price based on unit and price per unit | | | | |

## Update an item

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| **USE CASE-12 SPECIFICATION** | | | | |
| **Use-case No.** | <UC0012> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Update an item | | | |
| **Author** | Nguyen Cong Chien | | | |
| **Date** | 21/01/2024 | **Priority** | High | |
| **Actor:**  Customer  **Summary:**  This feature allows a customer to update an item to a quotation calculation for interior construction.  **Goal:**  The customer customizes their interior construction project by updating specific items and parameters, thereby generating an estimated quotation.  **Triggers**  The customer wants to do change their product in calculation for estimated price quotation for their interior construction project.  **Preconditions:**   * The customer must have navigated to the quotation calculation page. * The customer is logged into the interior construction quotation system. * The customer has selected a product or more   **Post Conditions:**   * **Success:** The quotation updated and show list of products and new estimated price for the product and new total estimated price for all products. * **Fail:** Show error a message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In “Tính báo giá” tab the actor changes desirer products  **[Alternative 1]** | System show all product the actor has added before: - Product Name: dropdown list of products exist in the database - Description: dropdown list of description of a specific product - Height: could be edit for some products - Length: could be edit for some products - Width: could be edit for some products - Unit: cannot edit - Estimated price: system calculate base on parameters actor has chosen - Product picture: cannot edit **[Exception 1, 2, 3]** |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | Actor clicks on “x” button | System remove product from quotation calculator |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Actor’s input exceeds the allowed size of a product | System shows informs “Kích thước vượt quá giới hạn cho phép vui lòng nhập lại” | | **2** | Product’s size is null | System shows informs “Thiếu thông tin kích thước” | | **3** | Product’s description is null | System shows informs “Thiếu thông tin mô tả” |   **Relationships:**  **Add an item**  **Business Rules:**   * Only customers have active their account can you this feature. * System calculates price based on unit and price per unit | | | | |

## Export a quotation

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| **USE CASE-13 SPECIFICATION** | | | | |
| **Use-case No.** | <UC0013> | **Use-case Version** | | <1.0> |
| **Use-case Name** | Export quotation | | | |
| **Author** | Nguyen Cong Chien | | | |
| **Date** | 21/01/2024 | **Priority** | High | |
| **Actor:**  Customer  **Summary:**  This feature allows the customer to export his/her specific quotation as a PDF.  **Goal:**  The goal of this use case is to allow customers to save a quotation in PDF format for his/her interior construction project.  **Triggers**  The customer wants to export the quotation as a PDF.  **Preconditions:**   * The customer must have either received a standard quote or calculated the estimated construction price for a quotation. * The customer is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** The PDF document is successfully generated and made available for the customer to download. * **Fail:** Show error a message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In “Báo giá” tab the actor chooses a specific quotation  **[Alternative 1]** | System detail of quotation with a export as PDF button at the end of the quotation “Xuất file PDF” | | **2** | The actor clicks on “Xuất file PDF” button | System generate quotation as PDF file and send download file to actor |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In “Tính báo giá” tab the actor chooses “Xuất file PDF” button | System generate quotation as PDF file and send download file to actor System generate quotation as PDF file and send download file to actor **[Exception 1, 2, 3]** |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Quotation calculator doesn’t have any product in it | System shows error message “Không có sản phẩm nào trong bảng báo giá, vui lòng thêm sản phẩm” | | **2** | Product’s size is null | System shows informs “Thiếu thông tin kích thước” | | **3** | Product’s description is null | System shows informs “Thiếu thông tin mô tả” |   **Relationships:**  **Receive a detailed quote**  **Business Rules:**   * Quotation exported must has basic information of customer on the top right of the quotation (Full name, email, phone number, construction address), and date created the quotation. * Quotation exported must has basic information of the company on the top left (Name of company, address, phone number, email) * System records the export action of customer | | | | |

## Receive a detailed quote

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| **USE CASE-14 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0014> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Receive a detailed quote | | | | |
| **Author** | Nguyen Cong Chien | | | | |
| **Date** | 21/01/2024 | | **Priority** | Medium | |
| **Actor:**  Customer, Staff  **Summary:**  This feature allows the customer to receive a detailed interior construction quote.  **Goal:**  The goal of this use case is the customer receive a quotation with detail price and information based on the request quotation he/she sent.  **Triggers**  The customer wants to receive a detailed quote for an interior construction project through the quotation system.  **Preconditions:**   * The customer must have sent request for a detailed quotation to the system. * The customer is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** System response to customer request with a detailed quotation and store the quotation in the history * **Fail:** Show error a message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The customer navigates to “Báo giá” tab  **[Alternative 1]** | System notify the customer about the detailed quotation had been sent to customer via email/customer dashboard | | **2** | The customer clicks on “Quản lý báo giá” tab | System shows a list quotation of quotation customer received containing: - Date receive - Quote ID - Staff name - Status (Confirm or not) | | **3** | The customer clicks on the new receive quote card | System shows a table of the products edited by staff based on the quotation requested: - Product Name  - Description - Height - Length - Width - Unit - Estimated price - Detailed price  - Product picture - Note from staff **[Exception 1]** |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The customer clicks on the notification in user dashboard “Một báo giá mới đã được gửi tới bạn ${QuoteID}” | System shows - Date receive - Quote ID - Staff name - Status (Confirm or not)  System shows a table of the products edited by staff based on the quotation requested: - Product Name  - Description - Height - Length - Width - Unit - Estimated price - Detailed price  - Product picture - Note from staff  **[Exception 1]** |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Quote not found | System shows error message “Có lỗi xảy ra, báo giá không tồn tại” |   **Relationships:**  **Get a quotation details**  **Business Rules:**   * The customer must have received email from system notify them about the quote had been sent | | | | | |

## Request a detailed quote

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| **USE CASE-15 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0015> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Request a detailed quote | | | | |
| **Author** | Nguyen Cong Chien | | | | |
| **Date** | 21/01/2024 | | **Priority** | Medium | |
| **Actor:**  Customer  **Summary:**  This feature allows the customer requesting a detailed quote from the.  **Goal:**  The goal of this use case is for the customer to send request for quotation with detail price and information.  **Triggers**  The customer wants to explore detailed pricing information for their interior construction project.  **Preconditions:**   * The customer must have done quote calculation process. * The customer is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** The system receives a request from the customer and notifies staff about the customer's request for a detailed quote. The system creates a new quotation in the database to work with the customer. * **Fail:** The quote does not store in the system, showing user error messages.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | Actor selects tab “Tính báo giá” in dashboard hompage | System shows a quotation table with the following columns: - Product Name - Description - Height - Length - Width - Unit - Estimated price  - Product picture | | **2** | Actor clicks on “+” button to add a product to the table | System add 1 row to the table and lets the actor select a product following: - Product Name: dropdown list of products exist in the database - Description: dropdown list of description of a specific product - Height: could be edit for some products - Length: could be edit for some products - Width: could be edit for some products - Unit: cannot edit - Estimated price: system calculate base on parameters actor has chosen - Product picture: cannot edit | | **3** | Actor selects the desired parameters for the product | System calculate and update the price of the product and total price of all products in the table **[Exception 1, 2, 3]** | | **4** | Actor clicks on “Gửi yêu cầu báo giá chi tiết” | The system saves the calculated quotation in the database and sends and notifies staff.  The system shows a message "Yêu cầu đã được gửi thành công" and sends an email to the customer with the date the request was sent and a link to the request. **[Exception 4]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Quotation calculator doesn’t have any product in it | The system shows the error message "Không có sản phẩm nào trong bảng báo giá, vui lòng thêm sản phẩm". | | **2** | Product’s size is null | The system informs "Thiếu thông tin kích thước". | | **3** | Product’s description is null | The System shows informs “Thiếu thông tin mô tả” | | **4** | Cannot send email | The System shows the error message “Chúng tôi gặp lỗi trong quá trình gửi email cho bạn” |   **Relationships:**  **Do a quotation calculation**  **Business Rules:**   * The system must send an email to the customer to inform that the request has been sent and is in process. * The system stores the quotation in the database. | | | | | |

## Confirm a quote

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| **USE CASE-16 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0016> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Confirm a quote | | | | |
| **Author** | Nguyen Cong Chien | | | | |
| **Date** | 21/01/2024 | | **Priority** | Medium | |
| **Actor:**  Customer, Staff  **Summary:**  This feature allows the customer to confirm a quotation provided by the staff for an interior construction project.  **Goal:**  The goal of this use case is to finalize the quotation process by having the customer confirm the proposed quote.  **Triggers**  The customer wants to confirm a specific quote for the construction process.  **Preconditions:**   * The customer must have received detailed quotation to the system. * The Customer is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** Quote confirmed, the system notifies the staff about the change, and updates status in the database. * **Fail:** The system fails to confirm the quote, showing an error.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In the "Quản lý báo giá" tab, the actor chooses a specific quotation card. **[Alternative 1]** | System shows the following infomations: - Date receive - Quote ID - Staff name - Status (Confirm or not) - A button to confirm quote “Xác nhận báo giá” - Detail of the quotation | | **2** | The actor clicks on “Xác nhận báo giá” button | System shows a pop-up “Bạn có muốn xác nhận báo giá này” with a confirm and cancel button | | **3** | The actor clicks on confirm button | The system updates the status in the database, notifies the staff about the change, and sends an email to the actor with confirmation information: - Quote ID - Confirm status - Link to quote  The system shows a success message “Bạn đã xác nhận thành công, chúng tôi sẽ liên hệ tới bạn trong vòng 24 giờ” |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In browser search box, the actors enter a links of quote detail with format  “vivadecor.com/quote/detail/  {quoteId}” | The system shows the following infomations: - Date receive - Quote ID - Staff name - Status (Confirm or not)  The system shows a table of product edited by staff based on the quotation requested: - Product Name  - Description - Height - Length - Width - Unit - Estimated price - Detailed price  - Product picture - Note from staff  **[Exception 1]** | | **2** | The actor clicks on “Xác nhận báo giá” button | The system shows a pop-up “Bạn có muốn xác nhận báo giá này” with a confirm and cancel button | | **3** | The actor clicks on confirm button | The system updates status in the data base, notify the staff about the change and sent email to actor with confirm information: - Quote ID - Confirm status - Link to quote  The system shows a success message “Bạn đã xác nhận thành công, chúng tôi sẽ liên hệ tới bạn trong vòng 24 giờ” |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | The quote not found | The system shows an error message “Có lỗi xảy ra, báo giá không tồn tại” |   **Relationships:**   * Receive a detailed quote * Get a quotation details   **Business Rules:**   * System notifies the staff that manages the quote about the confirmation so he/she can contact the customer. * System must send email to the customer about the change | | | | | |

## Update a blog

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| **USE CASE-17 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0017> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Update a blog | | | | |
| **Author** | Ton Chi Dung | | | | |
| **Date** | 13/01/2024 | | **Priority** | Medium | |
| **Actor:**  Admin  **Summary:**  This feature allows the admin to update a blog on the information page of the interior construction quotation system.  **Goal:**  The goal of this use case is for admin to update detailed information in a blog.  **Triggers**  The admin wants to update an existing blog.  **Preconditions:**   * Admin is logged into the interior construction quotation system. * There are existing blogs in the system.   **Post Conditions:**   * **Success:** The blog is updated with the new content, edited content, or deleted content reflecting the changes made by the administrator. * **Fail:** System show a dialog with specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In admin dashboard, the actor navigates to the blog manage tab “Quản lý blog” | System shows a list of blogs with each blog card has following content: - Blog title - Created date - A button do edit blog - A button to delete blog | | **2** | The actor clicks into edit option. **[Alternative 1]** | System shows a “Update blog” with: - Blog title: text input, required, max limit length is 100,  - Blog content: text input, required, max limit length is 10000, - Blog image: maximum size per image <8 mb, maximum images 10 images **[Exception 1, 2 ,3, 4]** | | **3** | The actor clicks into “Lưu” button. | System shows a message is “Cập nhật thành công” and save new information in the database |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor clicks into delete option. | System shows a pop up “Xác nhận xóa?” with yes, no option | | **2** | The actor clicks on “Yes” button | System delete user from database, shows a message “Xóa blog thành công” |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Image is size is bigger than 8m | System shows error message “Ảnh vượt quá dung lương cho phép” | | **3** | More than 10 images | System shows error message “Số ảnh tối đa là 10” | | **4** | Blog Title exist in the system | System shows error message “Tiêu đề đã tồn tại” |   **Relationships:**  **Manage blogs**  **Business Rules:**   * The blog title must be unique | | | | | |

## Add a blog

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| **USE CASE-19 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0019> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Add a blog | | | | |
| **Author** | Ton Chi Dung | | | | |
| **Date** | 13/01/2024 | | **Priority** | Medium | |
| **Actor:**  Admin  **Summary:**  This feature allows the admin to add a blog post on the information page of the interior construction quotation system.  **Goal:**  The goal of this use case is for the admin to add a blog.  **Triggers**  The admin wants to add a new blog to the system.  **Preconditions:**   * The admin is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** The new blog is created * **Fail:** System show a dialog with specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In “Quản lý blog” tab, the actor clicks on “+” button | System shows a “Tạo blog” form with: - Blog title: text input, required, max limit length is 100,  - Blog content: text input, required, max limit length is 10000, - Blog image: maximum size per image <8 mb, maximum images 10 images **[Exception 1, 2 ,3]** | | **2** | The actor clicks into “Lưu” button. | System shows a message is “Tạo mới thành công” and save new information in the database **[Exception 4]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Image is size is bigger than 8m | System shows error message “Ảnh vượt quá dung lương cho phép” | | **3** | More than 10 images | System shows error message “Số ảnh tối đa là 10” | | **4** | Blog Title exist in the system | System shows error message “Tiêu đề đã tồn tại” |   **Relationships:**  **Manage blogs**  **Business Rules:**   * The blog title must be unique | | | | | |

## Send a detailed quotation

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| **USE CASE-19 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0019> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Send a detailed quotation | | | | |
| **Author** | Nguyen Cong Chien | | | | |
| **Date** | 22/01/2024 | | **Priority** | Medium | |
| **Actor:**  Staff  **Summary:**  This feature allows a staff to send a detailed quotation to a customer based on their requirements for an interior construction project.  **Goal:**  The goal of this use case is the staff send the customer a detailed quotation based on his/her request.  **Triggers**  When the customer requests a detailed quotation for an interior construction project.  **Preconditions:**   * Staff is logged into the interior construction quotation system. * The staff has access to the customer's project details and preferences.   **Post Conditions:**   * **Success:** The detailed quotation is successfully sent to the customer's provided contact information. * **Fail:** System show a dialog with specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In staff dashboard, the staff navigate to customer request | System add 1 row to the table and lets actor modifies product following: - Product Name: dropdown list of products exist in the database - Description: dropdown list of description of a specific product - Height: could be edit for some products - Length: could be edit for some products - Width: could be edit for some products - Unit: cannot edit - Estimated price: system calculate base on parameters actor has chosen - Detailed price: number text input, required - Note from staff - Product picture: cannot edit | | **2** | The staff clicks on send quotation button “Gửi báo giá cho khách hàng” | System sends detailed quote to customer and notify he/she via email, website.  System shows message “Gửi báo giá thành công” |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. |   **Relationships:**  **Mange quotations**  **Business Rules:**   * The quotation must save in the database for future quote mangement | | | | | |

## View a requested quote

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| **USE CASE-20 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0020> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | View a requested quote | | | | |
| **Author** | Nguyen Cong Chien | | | | |
| **Date** | 21/01/2024 | | **Priority** | Medium | |
| **Actor:**  Staff, customer  **Summary:**  This feature allows a staff receiving a request for detailed interior construction quote through the Interior Construction Quotation System.  **Goal:**  The goal of this use case is the staff receive requested quotation for detail price and information based on the request quotation they sent.  **Triggers**  The customer wants to send a request for detailed quote for an interior construction project through the quotation system.  **Preconditions:**   * The customer must have sent request for detailed quotation to the system. * Staff is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** System response to staff request with a request for quotation and store the quotation in the history * **Fail:** Show error a message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The staff navigates to staff dashboard tab.  **[Alternative 1]** | System notifies the staff about the detailed quotation had been sent to customer via email/customer dashboard | | **2** | The staff clicks on “Quản lý báo giá” tab | System shows a list quotation of quotation request received containing: - Date receive - Quote ID - Customer name - Status (Confirm or not) | | **3** | The staff clicks on the new receive quote card | System shows a table of product edited by staff based on the quotation requested: - Product Name  - Description - Height - Length - Width - Unit - Estimated price - Detailed price  - Product picture - Note from customer **[Exception 1]** |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The staff clicks on the notification in user dashboard “Một báo giá mới đã được gửi tới bạn ${QuoteID}” | System shows a table of product edited by staff based on the quotation requested: - Product Name  - Description - Height - Length - Width - Unit - Estimated price - Detailed price  - Product picture - Note from customer  **[Exception 1]** |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Quote not found | System shows error message “Có lỗi xảy ra, báo giá không tồn tại” |   **Relationships:**  **Mange quotations**  **Business Rules:**   * The result quotes response to the actors if the keyword is in the name of the product or in the ID of the quote. * The default value of sorter are: “Sản phẩm mới“ and ”Hiển thị 9” | | | | | |

## Search a requested quote

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **USE CASE-20 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0020> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Search requested quote | | | | |
| **Author** | Nguyen Cong Chien | | | | |
| **Date** | 21/01/2024 | | **Priority** | Medium | |
| **Actor:**  Staff, admin  **Summary:**  This feature allows a staff to search for requested quotes within the interior construction quotation system.  **Goal:**  The goal of this use case is for the staff to search for a requested quote from customer base on customer name, quote ID.  **Triggers**  The staff want to find a specific requested quote within the system.  **Preconditions:**   * There must be exist quotation in the system. * The staff is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** System response to the staff with a list of quote base on the parameters he/she inputted to find. * **Fail:** Show error a message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor navigates to quotation dashboard tab. | System shows a search bar, a drop-down list with 2 options - Search by customer name - Search by quote ID | | **2** | In quotation page, the actor choose search by customer name and input relevant keywords into the product search text box  **[Alternative 1]** | System shows a hide suggestion text for search in the search product textbox is “Tên khách hàng” | | **3** | The actor clicks search icon or press “enter” key. | System shows a list of quotation request - Date receive - Quote ID - Customer name - Status (Confirm or not) **[Exception 1]** | | **4** | The actor choose options in filters according category, room,.. and sorters | System shows a list of quotation that match actor requires |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor navigates to quotation dashboard tab. | System shows a search bar, a drop-down list with 2 options - Search by customer name - Search by quote ID | | **2** | In quotation page, the actor choose search by quotation ID and input relevant keywords into the product search text box | System shows a hide suggestion text for search in the search product textbox is “ID báo giá” | | **3** | The actor clicks search icon or press “enter” key. | System shows a list of quotation request - Date receive - Quote ID - Customer name - Status (Confirm or not) **[Exception 1]** | | **4** | The actor choose options in filters according category, room,.. and sorters | System shows a list of quotation that match actor requires |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Quote not found | System shows error message “Có lỗi xảy ra, báo giá không tồn tại” |   **Relationships:**  **Mange quotations**  **Business Rules:**   * The result quotes response to the actors if the keyword is in the name of the product or in the ID of the quote. * The default value of sorter are: “Sản phẩm mới“ and ”Hiển thị 9” | | | | | |

## Get a requested quote detail

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| --- | --- | --- | --- | --- | --- |
| **USE CASE-20 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0020> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Get a requested quote detail | | | | |
| **Author** | Nguyen Cong Chien | | | | |
| **Date** | 21/01/2024 | | **Priority** | Medium | |
| **Actor:**  Staff  **Summary:**  This feature allows the staff actors view a request for detailed interior construction quote through the Interior Construction Quotation System.  **Goal:**  The goal of this use case is for the staff to view a requested quotation for detail price and information.  **Triggers**  The staff wants to view a request for detailed quote for an interior construction project through the quotation system.  **Preconditions:**   * The customer must have sent request for detailed quotation to the system. * The staff is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** System response to the staff request with a request for quotation detail * **Fail:** Show error a message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor navigates to quotation dashboard tab. |  | | **2** | The actor clicks on “Quản lý báo giá” tab | System shows a list quotation of quotation request received containing: - Date receive - Quote ID - Customer name - Status (Confirm or not) | | **3** | The actor clicks on the quote card | System shows a table of product edited by staff based on the quotation requested: - Product Name  - Description - Height - Length - Width - Unit - Estimated price - Detailed price  - Product picture - Note from actors **[Exception 1]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | Quote not found | System shows error message “Có lỗi xảy ra, báo giá không tồn tại” |   **Relationships:**  **Get a requested quote detail**  **Business Rules:**   * The default value of sorter are: “Sản phẩm mới“ and ”Hiển thị 9” | | | | | |

## Add a product

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| **USE CASE-23 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0023> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Add a product | | | | |
| **Author** | Ton Chi Dung | | | | |
| **Date** | 13/01/2024 | | **Priority** | Medium | |
| **Actor:**  Admin  **Summary:**  This feature allows admin to add a product into the interior construction quotation system.  **Goal:**  The goal of this use case is for the admin to add a product.  **Triggers**  The admin wants to add a new product to the system.  **Preconditions:**   * The admin is logged into the interior construction quotation system.   **Post Conditions:**   * **Success:** The new product is created * **Fail:** System show a dialog with specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In “Quản lý sản phẩm” tab, the actor clicks on “+” button | System shows a “Tạo sản phẩm” form with: - Product name: text input, required, max limit length is 100 - Product description: text input, required, max limit length is 500 - Height: number text input - Width: number text input - Length: number text input - Unit: choose between “Cái”, “m2”, “md” - Price per unit: number text input, required - Product image: maximum size per image <8 mb, maximum images 10 images **[Exception 1, 2 ,3]** | | **2** | The actor clicks into “Lưu” button. | System shows a message is “Tạo mới thành công” and save new information in the database **[Exception 4]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Image is size is bigger than 8m | System shows error message “Ảnh vượt quá dung lương cho phép” | | **3** | More than 10 images | System shows error message “Số ảnh tối đa là 10” | | **4** | Product name exist in the system | System shows error message “Tiêu đề đã tồn tại” |   **Relationships:**  **Manage products**  **Business Rules:**   * The product name must be unique | | | | | |

## Update a product

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| **USE CASE-24 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0024> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Update a product | | | | |
| **Author** | Ton Chi Dung | | | | |
| **Date** | 13/01/2024 | | **Priority** | Medium | |
| **Actor:**  Admin  **Summary:**  This feature allows the admin to update a product into the interior construction quotation system.  **Goal:**  The goal of this use case is for the admin to update a product.  **Triggers**  The admin wants to update a product to the system.  **Preconditions:**   * The admin is logged into the interior construction quotation system. * There are one or more products exist in the system   **Post Conditions:**   * **Success:** System updates new information of a product or remove it from database successfully. * **Fail:** System show a dialog with specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In Admin dashboard, the actor navigates to “Quản lý sản phẩm” tab | System shows a list of products exist in the system, each product card contain: - Product name - Created date - A picture of product - A button to edit product - A button to delete product | | **2** | In “Quản lý sản phẩm” tab, the actor clicks on “edit” button **[Alternative 1]** | System shows a “Tạo sản phẩm” form with: - Product name: text input, required, max limit length is 100 - Product description: text input, required, max limit length is 500 - Height: number text input - Width: number text input - Length: number text input - Unit: choose between “Cái”, “m2”, “md” - Price per unit: number text input, required - Product image: maximum size per image <8 mb, maximum images 10 images **[Exception 1, 2 ,3]** | | **3** | The actor clicks on “Lưu” button. | System shows a message is “Tạo mới thành công” and save new information in the database **[Exception 4]** |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | Actor clicks into “Xóa” option. | System shows a pop up “Xác nhận xóa sản phẩm?” with yes, no option | | **2** | Actor clicks on “Yes” button | System delete user from database, shows a message “Xóa sản phẩm thành công” |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Image is size is bigger than 8m | System shows error message “Ảnh vượt quá dung lương cho phép” | | **3** | More than 10 images | System shows error message “Số ảnh tối đa là 10” | | **4** | Blog Title exist in the system | System shows error message “Tiêu đề đã tồn tại” |   **Relationships:**  **Manage products**  **Business Rules:**   * The product name must be unique | | | | | |

## Get a product list

## Update a staff

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| **USE CASE-26 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0026> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Update a staff | | | | |
| **Author** | Tran Gia Phu | | | | |
| **Date** | 13/01/2024 | | **Priority** | Medium | |
| **Actor:**  Admin  **Summary:**  This feature allows the admin to update detail information of his/her staff.  **Goal:**  The goal of this use case is for the admin to update detail information of his/her staff.  **Triggers**  The admin wants to update detail information of his/her staff.  **Preconditions:**   * The admin is logged into the interior construction quotation system. * The actor currently in “Quản lý nhân viên” in the left tab of Dashboard   **Post Conditions:**   * **Success:** System update a staff information in the database, a dialog with a successful message * **Fail:** System show a dialog with a specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In staff catalog page, the actor clicks on button in Action column at row that that actor wants to update. | System shows two options are: - Update “Cập nhập thông tin” - Delete “Xóa nhân viên” | | **2** | The actor clicks on “Cập nhập thông tin” option. **[Alternative 1]** | System shows a “Update staff ”confirm form, with: - Name field: text input, required, max limit length is 500,  - Number phone: number input, required, max limit length is 500, - Email: text input, required, max limit length is 500, - Gender: text input, required, max limit length is 500. - Address: text input, required, max limit length is 500. **[Exception 1, 2 ,3]** | | **3** | The actor clicks into “Lưu” button. | System shows a message is “Cập nhật thành công” and save new information in the database |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor clicks on “Xóa nhân viên” option. | System shows a pop up “Xác nhận xóa nhân viên?” with yes, no option | | **2** | The actor clicks on “Yes” button | System delete user from database, shows a message “Xóa người dùng thành công” |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Phone number does not match the format | System shows error message “Email không hợp lệ” | | **3** | Email does not match the format | System shows error message “Số điện thoại không hợp lệ” |   **Relationships:**  **Manage users**  **Business Rules:**   * ID field of “Update staff catalog” confirm form is blurred and the actor cannot edit id of staff catalog. | | | | | |

## Add a staff

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| **USE CASE-27 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0027> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Add a staff | | | | |
| **Author** | Tran Gia Phu | | | | |
| **Date** | 13/01/2024 | | **Priority** | Medium | |
| **Actor:**  Admin  **Summary:**  This feature allows the admin to create a new staff.  **Goal:**  The goal of this use case is for the admin to add a staff to the system.  **Triggers**  The admin wants to add a staff.  **Preconditions:**   * The admin is logged into the interior construction quotation system. * The admin currently in “Quản lý nhân viên” in the left tab of Dashboard   **Post Conditions:**   * **Success:** System add a staff information in the database, a dialog with a successful message * **Fail:** System show a dialog with a specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In staff catalog page, the actor clicks on “+” button. | System shows a “Add staff ”confirm form, with: - Name field: text input, required, max limit length is 500,  - Number phone: number input, required, max limit length is 500, - Email: text input, required, max limit length is 500, - Gender: text input, required, max limit length is 500. - Address: text input, required, max limit length is 500. **[Exception 1, 2, 3]** | | **2** | The actor clicks on “Lưu” button. | System shows a message is “Lưu thành công” and save new information in the database **[Exception 4]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Phone number does not match the format | System shows error message “Email không hợp lệ” | | **3** | Email does not match the format | System shows error message “Số điện thoại không hợp lệ” | | **4** | Email exists in the system | System shows error message “Email đã tồn tại trong hệ thống!” |   **Relationships:**  **Manage users**  **Business Rules:**   * ID field of “Add staff catalog” confirm form is blurred and actor cannot edit id of staff catalog. | | | | | |

## Update a customer

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| **USE CASE-28 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0026> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Update a customer | | | | |
| **Author** | Tran Gia Phu | | | | |
| **Date** | 13/01/2024 | | **Priority** | Medium | |
| **Actor:**  Admin  **Summary:**  This feature allows the admin to update detail information of his/her customer.  **Goal:**  The goal of this use case is to update detail information of his/her customer.  **Triggers**  The admin wants to update detail information of his/her customer.  **Preconditions:**   * The admin is logged into the interior construction quotation system. * The admin currently in “Quản lý khách hàng” in the left tab of Dashboard   **Post Conditions:**   * **Success:** System update a customer information in the database, a dialog with a successful message * **Fail:** System show a dialog with a specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In customer catalog page, the actor clicks on button in Action column at row that actor wants to update. | System shows two options are: - Update “Cập nhập thông tin” - Delete “Xóa khách hàng” | | **2** | The actor clicks on “Cập nhập thông tin” option. **[Alternative 1]** | System shows a “Update customer”confirm form, with: - Name field: text input, required, max limit length is 500,  - Number phone: number input, required, max limit length is 500, - Email: text input, required, max limit length is 500, - Gender: text input, required, max limit length is 500. - Address: text input, required, max limit length is 500. **[Exception 1, 2 ,3]** | | **3** | The actor clicks on “Lưu” button. | System shows a message is “Cập nhật thành công” and save new information in the database |   **Alternative Scenario:**  **Alternative 1:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | The actor clicks on “Xóa khách hàng” option. | System shows a pop up “Xác nhận xóa khách hàng?” with yes, no option | | **2** | The actor clicks on “Yes” button | System delete user from database, shows a message “Xóa người dùng thành công” |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Phone number does not match the format | System shows error message “Email không hợp lệ” | | **3** | Email does not match the format | System shows error message “Số điện thoại không hợp lệ” |   **Relationships:**  **Manage users**  **Business Rules:**   * ID field of “Update customer catalog” confirm form is blurred and actor cannot edit id of staff catalog. | | | | | |

## Add a customer

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| **USE CASE-29 SPECIFICATION** | | | | | |
| **Use-case No.** | <UC0029> | **Use-case Version** | | | <1.0> |
| **Use-case Name** | Add a customer | | | | |
| **Author** | Tran Gia Phu | | | | |
| **Date** | 13/01/2024 | | **Priority** | Medium | |
| **Actor:**  Admin  **Summary:**  This feature allows admin to create a new customer.  **Goal:**  The goal of this use case is to add a customer to the system.  **Triggers**  The admin wants to add a customer.  **Preconditions:**   * The admin is logged into the interior construction quotation system. * The admin currently in “Quản lý khách hàng” in the left tab of Dashboard   **Post Conditions:**   * **Success:** System add a customer information in the database, a dialog with a successful message * **Fail:** System show a dialog with a specify error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | **1** | In customer catalog page, the actor clicks into “+” button. | System shows a “Add customer”confirm form, with: - Name field: text input, required, max limit length is 500,  - Number phone: number input, required, max limit length is 500, - Email: text input, required, max limit length is 500, - Gender: text input, required, max limit length is 500. - Address: text input, required, max limit length is 500. **[Exception 1, 2, 3]** | | **2** | The actor clicks into “Lưu” button. | System shows a message is “Lưu thành công” and save new information in the database **[Exception 4]** |   **Alternative Scenario:**  **N/A**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | **1** | At least one input field doesn’t match the constrain | System shows error message corresponding to the fail constrain. | | **2** | Phone number does not match the format | System shows error message “Email không hợp lệ” | | **3** | Email does not match the format | System shows error message “Số điện thoại không hợp lệ” | | **4** | Email exists in the system | System shows error message “Email đã tồn tại trong hệ thống!” |   **Relationships:**  **Manage users**  **Business Rules:**   * ID field of “Add customer catalog” confirm form is blurred and actor cannot edit id of staff catalog. | | | | | |

# NON-FUNCTIONAL Requirements

## Usability

### Training Time

Specify that the system should have a maximum training time of 2 hours for staff and approximately 30 minutes for normal users to become proficient in basic operations.

### Measurable Task Times

Measurable Task Times: Define that typical tasks, such as adding a product to the quotation, should have a maximum duration of 1 minute for normal users.

### Conformance to Standards

Conformance to Standards: Require the system to conform to common usability standards such as ISO 9241 for Ergonomics of Human-System Interaction and specific standards for interior design software.

## Reliability

### Availability

Specify that the system should have a minimum availability of 99.5%, allowing no more than 3.65 days of downtime per year.

### Mean Time Between Failures (MTBF)

Define an MTBF of 10,000 hours for the system, ensuring reliable operation over an extended period.

### Mean Time To Repair (MTTR)

Set a maximum MTTR of 4 hours to ensure prompt restoration of service in case of failure.

### Accuracy

Require the system's output to have a precision of at least two decimal places and accuracy within a 95% confidence interval compared to industry-standard measurement tools.

### Maximum Bugs or Defect Rate

Specify a maximum of 1 bug per 1000 lines of code (1 bug/KLOC) and categorize bugs as minor, significant, or critical based on their impact on system functionality.

## Performance

### Response Time

Define that the average response time to process a transaction should not exceed 1 second, with a maximum response time of 3 seconds.

### Throughput

Specify a minimum throughput of 100 interactions between users and the server per minute to support scenarios with high interaction.

### Capacity

Define that the system should be able to accommodate at least 1000 concurrent users or interactions without a degradation in performance.

### Degradation Modes

Specify that when the system is degraded, it should prioritize essential functions like processing quotations while temporarily disabling non-essential features.

### Resource Utilization

Require efficient resource utilization, with the system consuming no more than 80% of available memory, disk space, and network bandwidth under peak load conditions.

### Interfaces

Ensure that the system interacts seamlessly with external databases, payment gateways, and customer relationship management (CRM) systems to facilitate smooth data exchange and integration.

### Supportability

[This section indicates any requirements that will enhance the supportability or maintainability of the system being built, including coding standards, naming conventions, class libraries, maintenance access, and maintenance utilities.]

### <Supportability Requirement One>

[The requirement description goes here.]

## Design Constraints

[This section indicates any design constraints on the system being built. Design constraints represent design decisions that have been mandated and must be adhered to. Examples include software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints, purchased components, class libraries, and so on.]

### <Design Constraint One>

[The requirement description goes here.]

## On-line User Documentation and Help System Requirements

[Describes the requirements, if any, for o-line user documentation, help systems, help about notices, and so forth.]

## Purchased Components

[This section describes any purchased components to be used with the system, any applicable licensing or usage restrictions, and any associated compatibility and interoperability or interface standards.]

## Interfaces

[This section defines the interfaces that must be supported by the application. It should contain adequate specificity, protocols, ports and logical addresses, and the like, so that the software can be developed and verified against the interface requirements.]

### User Interfaces

[Describe the user interfaces that are to be implemented by the software.]

### Hardware Interfaces

[This section defines any hardware interfaces that are to be supported by the software, including logical structure, physical addresses, expected behavior, and so on.]

### Software Interfaces

[This section describes software interfaces to other components of the software system. These may be purchased components, components reused from another application or components being developed for subsystems outside of the scope of this SRS but with which this software application must interact.]

### Communications Interfaces

[Describe any communications interfaces to other systems or devices such as local area networks, remote serial devices, and so forth.]

## Licensing Requirements

[Defines any licensing enforcement requirements or other usage restriction requirements that are to be exhibited by the software.]

## Legal, Copyright, and Other Notices

[This section describes any necessary legal disclaimers, warranties, copyright notices, patent notices, wordmark, trademark, or logo compliance issues for the software.]

## Applicable Standards

[This section describes by reference any applicable standard and the specific sections of any such standards which apply to the system being described. For example, this could include legal, quality and regulatory standards, industry standards for usability, interoperability, internationalization, operating system compliance, and so forth.]

# Supporting Information

[The supporting information makes the SRS easier to use. It includes:

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Appendices

These may include use-case storyboards or user-interface prototypes. When appendices are included, the SRS should explicitly state whether or not the appendices are to be considered part of the requirements.]