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August 4th, 2023

Mr. David Lindsay  
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Dear Mr.Lindsay

Attached to this letter is the final report for the NKIN Bridal Website Clothing Tool, which fulfils the requirements of ENG4003 and ENL4003, as part of the Computer Engineering Technology Program at Algonquin College. This report is to present a thorough description of the Bridal Website Project’s development and completion.

The report is divided into distinct sections that effectively elaborate the project’s progression. The introduction provides an overview of the project, client and outlines topics covered in the following sections. The background defines the setting for the project and provides technical terms important to understanding the design, development, and testing aspects of the report. The design elaborates on each iteration of the project including the initial prototype presented to client, the follow up design, and the final design. The methodology deconstructs step by step how each component of the final product was programmed and implemented. The testing section discusses the multiple tests that were conducted to ensure the product meets all the requirements. Lastly, the conclusion and recommendations section presents the final thoughts of the projects and provides recommendations on potential future improvements.

The team would like to acknowledge the assistance of Professor Laura McHugh, David Lindsay, Leanne Seaward, Asim Butt for their guidance throughout the duration of the project. The team would like to thank the client Abby Greenberg for being very flexible and allowing the team a vast amount of creative freedom for the development of the project.

Sincerely,

Anthony Le’Count  
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Bridal Wear

By: Haroun Benmeddour, Camille Bouchard, Alireza Jadidi, Anthony Le’count, Jeel Patel, and Phung An Vuong

Algonquin College  
Computer Engineering Technology

Bridal Wear

Prepared For: Laura McHugh and Brian Gray in partial fulfilment of the requirements for ENL4003 / ENG4003

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Never Knew I Needed

August 5, 2023

# Declaration of Sole Authorship

We, Haroun Benmeddour, Camille Bouchard, Alireza Jadidi, Anthony Le’count, Jeel Patel, and Phung An Vuong, confirm that this work submitted for assessment is our own and is expressed in our own words. Any uses made within it of the works of any other author, in any form (ideas, equations, figures, texts, tables, programs), are properly acknowledged at the point of use. A list of the references used is included.

# Executive summary

The purpose of the Bridal Wear project is to facilitate custom clothing designs for NKIN (Never Knew I Needed). This project empowers clients to visualize the products while making desired changes, such as dynamically altering colours, adding logos, choosing size options, and adjusting quantities. The project is divided into two parts: a server responsible for handling the back-end data processing, and React, responsible for managing the user interface and front-end user inputs and data display.

Abby Greenberg, the team's client, operates NKIN, a Bridal clothing company. The project aims to provide a solution for her need to create custom clothes or bridal items for clients. Traditionally, the process of creating custom clothing can be very time-consuming when relying solely on communication. However, the project empowers clients to achieve their desired product, which Abby can review and then either approve the item's creation or further discuss details with the client.

The project commences in February 2023 and reaches completion in August 2023. The initial period from February to April 2023 is devoted to designing and planning. Coding and development begin in March 2023 and conclude in August 2023.

To create the project, we utilize Node.js and React as frameworks for JavaScript. Additionally, we employ Jest and Cypress to enable automated tests. React handles the front end, allowing users to interact with various elements such as size options, image uploads, colour selection, and quantities through dedicated components. On the other hand, the Node server manages the back end, particularly the Colour array containing hex codes of all available colour options. Jest facilitates automated tests, triggered by the 'npm test' command, ensuring React and Node materials function as expected after each major code update. Meanwhile, Cypress is responsible for testing the User Interface, verifying whether button presses, for instance, yield the expected outcomes, like incrementing the displayed quantity when the add button is pressed.

No specific budget is allocated for the project. It is designed to operate locally, eliminating server-related expenses. The database is also set up on localhost. In the future, NKIN can potentially expand the project and move it to a server. However, at present, there are no costs involved, and everything runs locally.

To initiate the project, two servers are run. First, the Node server is activated using the 'npm run dev' command, which starts the backend server and displays 'Listening on port 5000.' Subsequently, the React front page is launched by running 'npm start' in the terminal, setting up the project on localhost 3000. The FrontPage component greets users with a list of available items, such as shirts, dresses, and hoodies. Upon selecting an item, the App component is accessed, and the appropriate item, identified by its image ID, is displayed to the user. Here, users have access to various customization options, each managed by dedicated components, ensuring well-organized code.

By selecting size and quantity, users can adjust their preferences in the code. The selected options are visually highlighted on the front page, allowing users to confirm their choices. The Import Image component facilitates image and logo uploads, granting users the ability to move and resize the image on the customizable item.

Additionally, users can add or remove colours through the edit button next to the colour options. The process involves two options: removing a colour or adding a new one. For adding a colour, a menu prompts the user to enter the colour in Hex code format, as provided by the client's colour inventory. Invalid inputs or duplicates trigger error messages, while valid inputs are saved in the backend through the Node server, updating the colour inventory on the front page.

The ColorBtnMatrix component handles colour selection, setting the background colour of the item upon user selection. Once customization is complete, users can add the item to the cart. The local storage saves the cart data, even if the server shuts down or the page is accidentally refreshed.

When users are ready to check out, they provide client information, including name and address. Upon entering the details, the submit button becomes active, initiating a notification to NKIN's email. The email contains product details, designs, and client information for review. Subsequently, NKIN can respond by approving the product creation or initiating further discussions with the client to explore alternative plans and possibilities.

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# Introduction

This report focuses on the design and development of a bridal website that offers many customizations and features regarding bridal attire and items. The customizations include changing the colour of the item from a set colour palette and customizing the logo placement on the item. The features consist of minimum quantity orders with an add to cart and feedback option for customers. The purpose of this report is to present the design and development process and provide insight into the project’s background, description, and objective.

The bridal website is a Canadian bridal retail company hosted on the web by the Never Knew I Needed (NKIN) team. The client for this project, Abby, is part of the NKIN team. Abby’s client needs involved making the bridal shop more user-friendly by offering more efficient customization tools, such as displaying a more accurate colour palette to the user and an improved drag and drop feature to accurately place a logo on an item. Additionally, the client needed to streamline interactions with the website, customers, and orders by adding features such as an admin-controlled colour palette, a feedback section on purchased items for customers, and a minimum order requirement for customized items. The previous solution included customization tools that were not very user-friendly with certain features like a colour wheel for colour customization and unlimited order quantities, which resulted in an infinite number of options and no control for the NKIN team. This meant that some better solutions were needed to create a seamless online store.

This project aimed to build on the previous iteration while improving the design and functionality to better fit Abby’s needs. It provides a customizable colour palette that allows Abby to add or remove colours available to the customer for each item. This tool is designed with the assumption that Abby can procure colour codes in a hexadecimal format. It also provides a minimum order requirement of 12 to allow only customized items ordered in bulk to be added to the cart. The objective was to alleviate the infinite colour and quantity problem caused by the previous design while giving Abby more control over the available options.

This report covers the background, which encompasses the project’s necessity for completion, as well as an overview of previous iterations. The design is discussed next, detailing the technologies used, the core features, the method of implementation, and the challenges and design choices made. The methodology section covers the way the project was completed, including research and design principles, as well as the SCRUM development method used to complete work. The Testing, Results, and Analysis section of the report details the final product and the results from testing and analyzing the solution. Finally, the conclusion and recommendations summarize the project's successes and failures and detail the final recommendations.

This report is of importance to the client, Abby, as well as the members of the NKIN team who may also use the tools. Additionally, it holds significance for other web developers or small business entrepreneurs seeking to develop a customizable shopping website. It benefits the customer by adding customization options while also giving Abby the freedom to set certain options based on material limitations. It also saves Abby time and cost on reprogramming new colours.

While this report covers the design of the customization tools as well as the challenges involved in the design process, it does not cover any business aspects such as impact on sales, cost-effectiveness, and product details. It also does not cover more intricate details like framework descriptions or explanations on how the technology that was used operates.

# Background

The client, Abby Greenberg came up with the idea for the project for her business NKIN (Never Knew I Needed). NKIN is an online bridal clothing store that sells apparel for bridal activities. The current project is a continuation of a previous team’s implementation with additional improvements and features in mind, that will be brought into detail more in throughout the background section.

## Project Needs

The needs for this project were primarily improvements on the previous implementation. There was a need to limit the colour selection for the user and allow for colour palette customization for the client to pre-set. In the previous implementation, users could select any colour that exists and use it as the colour of the shirt. This was an issue for the client due to the limited colour pool to work with when making apparel. Another need was to implement a drag and drop feature for images and logos to allow for further product customization while limiting where the image could be placed. In the previous implementation whenever a user would try to add an image to a shirt it would only allow the image to be placed in the centre of the screen. The task was to ensure that multiple images can be placed anywhere on the shirt the user desires. The final need was for a notes section to allow customers to further explain their requirements to limit customer interactions. The previous implementation did not allow the client to be able to communicate with their users, which was crucial in cases where more order information was required or if there was a supply issue the client wouldn’t have to struggle to get back to their users.

## History

The project was originally a continuation of the application created by a previous team where the user could drag and drop an image on an item (a shirt), select from colour options, size and quantity options, a login system, and lastly, a shopping cart. The current project was to build upon the existing tool, the client’s server, and apply more user functionalities such as a notes section, improvements on the drag and drop system and include item selections.

The previous team had successfully incorporated the base template, with a basic drag and drop system, and a working login system and cart, but the features still require some tweaks and improvements. For instance, the drag and drop had to be done manually through the X and Y axis by the user instead of allowing the user to move freely. The previous implementation also failed to match the clients need on some features such as quantity of items and colour selection, which are needed for the client to ensure the colours on the site match the business inventory and to ensure excess amounts of materials were not wasted on smaller orders.

The team was also unsuccessful in retrieving the source package (from the previous team) from the client due to the file being removed from the Google Drive link. Due to the sudden change of plans, the team had to focus on re-building the project from the ground up without any use of the previous team’s code. This new version was built with the new limitations in mind, while some of the previous team’s documentation and video demonstration was used for the baseline idea for the project.

## Existing websites

The current website for the project consisted of a bridal shop that offered the possibility to add custom features to bridal attire. These features included a colour wheel that enabled colour customization, a drag and drop feature that permitted the placement of an image on a clothing item, and the option of adding the customized product to a cart.

Regarding the colour wheel, this feature was implemented in a way where the colour customization allowed for an infinite number of options. As a result, Abby had limited control over the available colour options for the clothing and had lost the ability to make the selections herself. Customer should have a limited option of colours to choose from for purchases based on the colour palette currently accessible by the client.

Lastly, the option to add the personalized product to a shopping cart was not entirely satisfactory as the customers were permitted to make purchases without a minimum number of items included in the cart. Due to the shop having customization options, the minimum order requirement would have guaranteed that the customizations were financially feasible to be provided to customers.

## Technical information and Implementation

The tools the group had planned to use in this project are as follows; JavaScript, Node.js, React, and Visual Studio. The team opted to create a custom project using Visual Studio for the web site implementation.

The frameworks used in the project were Node.js and React. Node.js was used as the backend [6] and React was used as the front end. Both frameworks and their libraries worked with the JavaScript syntax. JavaScript was the main programming language used to develop the tool in major part due to relation with React and Node.js. [10]

For the view of the application, the team created multiple components using JavaScript.

Each of these components the team created separately and designed with a specific task. These component files contain the design, dimensions, and logic of the designated component.

## Project Management

Communication with the client was done through weekly written reports that outlined the progress that was made to the project throughout the week. Team communication was primarily done weekly where everyone would present what was currently being worked on. The weekly meetings would also be used as an organized time to work on anything that required the whole team to be present. The timeline for the project was to have a working prototype by the four-month mark and have a final product completed after the eight-month mark. Development was done using a backlog to keep track of tasks and promote continuous progress. The backlog would have a list of tasks and each person would be assigned a certain amount to be done individually and check off the task once it was done. As this project was meant to be a side project for the client, the client opted not to invest any of the business' resources towards a budget for the project.

# Design

This section covers the design process used and the design decisions made to build the first prototype of a web feature that allows various functionality when adding a product to a cart from a commerce website.

For the design to be successful, it must meet the design objectives. The objectives for this prototype are goals such as creating an interface that is both user-friendly and visually appealing and ensuring accessibility and responsiveness on all devices. Additionally, it should provide basic functionality that is intuitive and easy to use. By achieving these objectives, the design can better fulfil the client's requests and meet their unique requirements.

Design also requires a thorough understanding of the key features. The key features for this design included a customizable colour palette, a notes section, and the ability for the product to change colour based on user preference. Other key features are quantity limitations and logo placement.

The client’s specific requests are built on the key features of the design. The shape the key features to satisfy client needs. For this design the client’s criteria were to give more control of product colour selection, limit the number of orders that can be made for custom products, and allow customers to give more details on what they would like through a notes feature.

This report details how these objectives, key features and client needs were met and the choices that went into the final prototype.

## Development Environments

This section refers to what base was used to build the project. This includes development environments and technologies.

### Local Development

This design choice requires a ReactJS project to be set up locally on a computer and developed from scratch as opposed to using a third-party platform like Shopify. This is the typical method for standalone software being built as the team can set up a custom environment and have full control over the technologies used.

A screen shot of a computer program

Description automatically generated

Figure 1 Visual Studio Code Development Environment. This figure shows the VS Code development environment user interface.

This method allows developers to choose the technologies, frameworks, and languages used to develop an application. It provides more freedom and targeted learning as there are no third- party systems or limitations placed by third-party systems. This gives the team the freedom and flexibility to design and build the client required features. Local development also allows for quicker and more thorough testing.

The challenges involved in this method are direct byproducts of the freedom it allows for. The setup is entirely the team’s responsibility. Installations of dependencies are not automatically completed. All bugs and issues must be fixed manually. Finally, there are no prebuilt components or functionalities which increases development time. Although these challenges slow down production to an extent, this is still a viable design choice for the project requirements.

## Home Page

The home page is designed to show a variety of products that a user can select from and customize. The products are displayed in a grid for quick and easy browsing. The home page also contains a cart navigation button in the top right corner for quick access to the user’s cart.

*A screenshot of a white clothing

Description automatically generated*

Figure 2App's front page. This figure shows the front page of the website.

## Web Page interface Layout

Web pages can be laid out in multiple ways and various arrangements. This section explores the vertical and horizontal layout design styles.

### Horizontal Layout

This design idea consisted of a shirt platform component on the left side of the page for the client to view the changes made to the product. All product modifier controls such as the quantity selection, notes section, and colour change, is located on the right of the platform for the user to select and make changes to.

The way monitors are designed creates a page that is wider than it is long. The benefit of using this layout is to display both the product, the changes being made to it and the controls for making those changes on the same view. This leads to a more comfortable user experience, as shown in the figure below.

Figure Horizontal layout design choice. This figure illustrates the components in a Horizontal layout.

## User Inputs

There are many types of user input components that can be used to build a web application and web form. The component that will be explored in this section is a drop-down menu.

### Buttons

This design approach proposes the use of buttons to select product size and product colour. Buttons offer an intuitive and user-friendly interface for selecting options. With this component design, the team achieved a compact solution that allows for easy integration of additional features. The client can conveniently locate the options on the platform. The platform dynamically updates to reflect the selected colour, ensuring it aligns with the client's design choices.

While buttons work well for selecting product size, they are not as beneficial when dealing with a growing list of colours due to the colour palette customization feature. This leads to a long and potentially difficult to manage list, creating a cluttered appearance on the page.

## Main Features

This section covers the prominent features of the site and their respective designs.

### Drag and Drop

The drag and drop functionality offers a user-friendly way for users to upload images. With this component design, the user can place an image on the product by uploading it using the upload button or dragging and dropping an image onto the product.

This feature also allows the user to drag the image once placed to the desired location on the product as well as resize the image. These functionalities allow for intuitive and seamless customization of the products in the store.

### Cart and Checkout pages

The Cart and Checkout pages illustrated below are designed to allow the user to verify and complete their orders. The cart displays the users item choices with the item names, colours selected, sizes, and previews of the items to ensure the order is accurate.

A screenshot of a product

Description automatically generated

Figure 4 User cart design. This figure illustrates the cart feature.

Once orders are confirmed by the user through the cart, the user is then redirected to the checkout page by clicking the ‘Checkout’ button. The checkout page allows the user to enter the relevant information required to complete and ship their orders.

Payment is not a design criterion at this time and has been omitted from the checkout page.

A screenshot of a checkout form

Description automatically generated

Figure 5 User checkout page. This figure illustrates the checkout page.

## Design Selection and Criteria

This section will cover the final decisions made regarding the design choices and the criteria used to make those decisions.

### Design Elements Selected

The first idea explored was the Shopify development platform. This was a tool the team members were not familiar with and required significant research and testing to understand. Due to many limitations with the platform capabilities and the resources required to learn it in an effective manner, a pivot was made towards a more familiar platform. The project then shifted development to implement node.js and react as the framework, using JavaScript as the main language, with Visual Studio Code as the main IDE. These allowed for quick local implementation without having to rely on Shopify.

The original version of the colour selector in the previous implementation was a colour wheel that caused unlimited options. This was not feasible for the client to replicate when fulfilling orders. The alternative to this was creating pre-set colour palettes giving more control to the client over what colours can or cannot be selected by the user.

The base UI of the project was designed to match the brands image as well as following layouts of similar existing tools. When viewing the client’s existing website, it implemented a colour scheme of a white base with pink being used as the main accenting colour. When viewing similar existing tools, a trend of a large image on the left with the customization options on the right- hand side of the screen was noted. It was important to keep the design consistent with competitors as it creates a more user-friendly and intuitive design.

### Selection Criteria

The criteria used in the selection were aesthetics, functionality, intuitiveness, and ease of use. Aesthetics are determined by comparing the designs with the business’ brand appearances and doing what best matches it. When creating the layouts and style sheets we matched what was already on the client’s existing website and the format the previous team used. The colours primarily used in the backgrounds and component were combinations of white and pink as those best reflected the business’ image.

Functionality is determined using common programming techniques. Many features have standard ways of functioning already. The features developed to help the client have a straightforward and expected result. These features were developed to achieve those results while avoiding unnecessary complexity.

Ease of use was based on how simple and easy it is to use certain features from the perspective of the user. This criterion was difficult to plan as the only real way of identifying these criteria was to test the features once completed and isolate what needs to be tweaked.

## Final Design

The final design includes options for customers to browse and add certain customizations to items. These customizations include selecting the size, colour, and adding the logo placement to the item. The sizing and colour option can only be selected one at a time. The logo placement is added to the item through a drag and drop feature. It also offers the option to add products to a cart for purchase, where the customer can only select a minimum order quantity of 12 items. Additionally, there is a notes section available for customers to add feedback on certain products. Finally, there is an option available for the client, Abby, to control the colour selection that the customers can see and choose from. The colours are added by typing in the Hex Code of the specific colour.

The final design is different from the initial ideas, primarily due to having to shift away from the original platform and having to implement features using new coding languages and tools. Additionally, the team had to revise the entire layout and arrangement of the features and added changes to the product functionalities.

The final design uses the React.js framework to build the web application, utilizing JavaScript as the primary language. This cuts development time as it removes the need to understand a third-party framework. It also provides more freedom and control over the design of each component while expediting testing.

Finally, the layout and feature placement has changed to optimize the available space of the application and prevent an overall cluttered look. Instead of having all the features centred, the team has moved the product image and notes section to the left and additional buttons and features to the right of the page. The functionality of certain product features has changed, where the team decided to implement different buttons for the colour and sizing options, instead of having a drop-down menu. The customers no longer must scroll through a long list of options and can easily select a button that is already available on the screen. The final design also includes a cart that slides out to the side of the same page for user functionality, instead of having the cart display to an entirely new page. We also implemented a new feature of a notes section for customers, which we originally did not plan for. This allows customers to leave feedback on products and minimizes direct interaction between the customer and the client, Abby.

# Methodology

In the initial stages of the Bridal website development, the team did research on React. The objective of the initial sprints is to gain familiarity with React and its associated libraries. Based on the research, the team has made the following tools, technologies, programming languages and the development environment.

* React.js
* Node.js
* JavaScript
* HTML
* CSS
* GitHub
* Visual Studio Code

Once the first prototype was decided, the different functionalities into the prototype and continued development of the website.

## Front Page

The JavaScript file FrontPage.js holds the front page of the website which is the initial page that loads for customers. It showcases the featured products in a grid. The displayed products on the front page also serve as a gateway to App.js, which is the page that allows customers to customize the desired products.

A screen shot of a computer program

Description automatically generated

Figure 6 code snippet. Implementation of the home page.

The product grid is stored in an array containing a length of 9 which is the number of products added on the front page. The index used for the array is stored in the link to the App page, which is used to identify the various product images.

Once the desired product image on the front page is clicked on, it will display the respective image on the main page for further customization. The index of the image will also be shown at the end of the link of the main page depending on its position in the product grid of the front page.



Figure 7 Url routing. This figure illustrates the page routing implemented in the home page.

On App.js, this is achieved by using the useEffect() function to parse the URL parameter and store the image ID in the state. The state is stored in a variable called “setSelectedImageId” and is retrieved once again to display the product title and appropriate image for further customisation.

## Size Selection

The JavaScript file btnSizes.js contains a React component called BtnSizes. The BtnSizes component provides a selection interface for the users to choose different Sizes. It shows a group of buttons, each button represents for a different size option, such as XS, S, M, L, and XL. The user needs to click the button of the size they want. When the user selects a button, the button is highlighted so the user can identify the size they have choosen. This feature allows the customer to modify the size of the product and provides the client with the dimensions.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 8 code snippet. Implementation of Size Selection.

The Following steps were taken to implement this Functionality:

1. A function, named ‘BtnSizes’, is declared. The size of the buttons and the selected size of the product is handled by this component.
2. In the ‘BtnSizes’ component, a function named ‘handleSizeClick’ is declared and this function takes the selected size as an argument.
3. In the ‘handleSizeClick’ function, the ‘addSize’ function is called and passed the selected size as an argument.
4. The sequence of size buttons is wrapped in a div element. This will visually group the buttons together.
5. Five buttons are displayed inside the div element, each of which stands for a different size choice (XS, S, M, L, and XL).
6. The ‘onClick’ event handler is attached to each button and when button is selected ‘handleSizeClick’ function is called.

## Colour Selection

The ‘ColourBtnMatrix’ component manages colour changes on a T-shirt. It provides colour buttons and allows the owner to enter custom colours using hex codes. The colours are managed using the useState hook and an array called "colours". The colour input menu is displayed when the client clicks the "+" button. Client can enter a hex code, and upon clicking the "Save" button, the colour is added to the "colours" array. The hex code should be valid, and colour must not already present in the array. These two conditions should be satisfied for colour to be added. Otherwise, an error message is displayed. This feature improves the user experience by allowing them to choose from a different colour, giving them more creative control for their product.

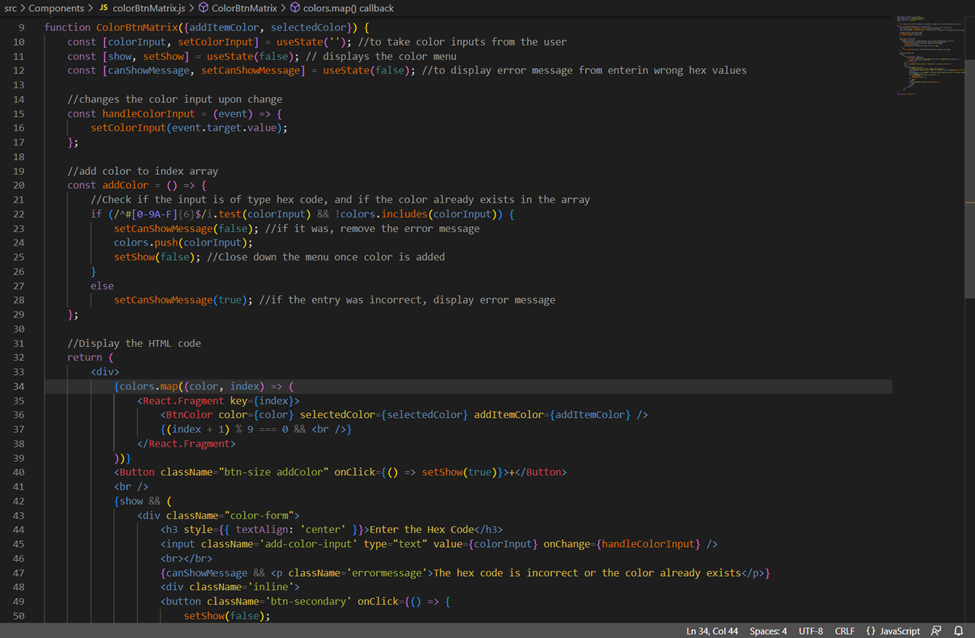


Figure 9 Code snippet. Implementation of the Colour Selection.

The Following steps were taken to implement this Functionality:

1. ‘ColourBtnMatrix’ has two props: ‘addItemColour’ and ‘selectedColour’. ‘useState’ is imported for the state management.’colourInput’ is used to store the user’s colour input whereas show is used to control the display of the colour menu.Moreover, ‘canShowMessage’ is used to display an error message while adding the colour.
2. ‘handleColourInput’ function is triggered when the user changes the colour input. It updates the ‘colourInput’ state with the new colour selected by the user.
3. ‘addColour’ function is called when the client clicks the “Save” Button in the colour menu.
4. It uses the regular expression to check that the colour input entered by the client is a valid hex code. This function also checks that the colour entered by the client already exists in the ‘colours’ array. Therefore, adding a new colour hex code should be valid and the colour should not be already in the ‘colours’ array. If these conditions are met colour is added to the ‘colours’ array using the ‘push’ method and colour is saved to the ‘colourInput’.
5. If the conditions are not met, the ‘canShowMessage’ state is set to ‘true’ to display an error message.

## Minimum Quantities

The JavaScript file inputQuantity.js contains a React component called InputQuantity. This feature allows the users to choose the quantities in a range between 12 and 100. Moreover, it also provides “+” and “-” buttons to increase and decrease the quantity respectively. The minimum quantity is a requirement because the creation of customized items and involve a lot of time, effort, and resources. By implementing this feature, the client can streamline manufacturing, it reduces costs, and it improves operational efficiency.

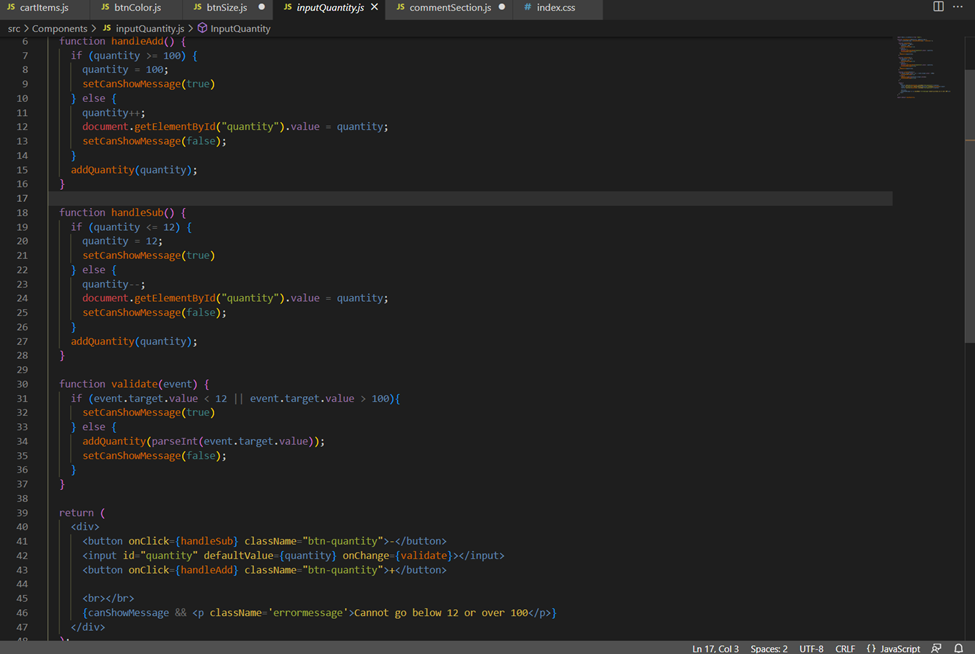


Figure 10 Code snippet. Implementation of Minimum Quantities.

The Following steps were taken to implement this Functionality:

1. The ‘InputQuantity’ component has two props: ‘quantity’ and ‘addQuantity’. The user interface has the option to increase and decrease the quantity as well as an input field for manual input.
2. The ‘UseState’ hook from the React library is used to manage the component state. ‘canShowMessage’ variable is used for the visibility of an error message.
3. “handleAdd’ function is triggered when the “+” button is selected. It checks the current “quantity’ value. If the “quantity is more than 100 it automatically sets the quantity to 100.
4. “handleSub’ function is triggered when the “-” button is selected. It checks the current “quantity’ value. If the “quantity is less than 12 it automatically sets the quantity to 12.
5. “Validate” function is triggered when the value in the input field changes. It validates the entered value, if the value is below 12 or it is above 100, and sets “canShowMessage” to true to display the error message.

## Drag and Drop

The ImportImg component is designed to allow the users to upload an image of their choice and to display it in a specific part of the T-shirt. During the customization process users are allowed to freely pick and choose how they want their images to be placed. The ability to add an image from their file explorer allows them to make a distinct design of their choosing. Enabling the movement of the images grants the user an intuitive control of their design.



Figure 11 Code snippet. Implementation of Drag and Drop Functionality.

1. The component has a file input element which is named as “image\_input” and it only accepts JPG and PNG formats with the “accept” attribute. User can select a picture from their device by clicking on the upload button.
2. ‘placeImageFunction’ handles the selected file and process it for display. Function retrieves the file input using the document.query.selector method and it is assigned to “image\_input” variable.
3. “uploaded\_image” variable is created as an empty string. It will store the converted image data URL.
4. FileReader object is created to read the selected image file and a event listener is added to the FileReader object.
5. Function retrieves the display image elements using the document.querySelectorAll method and assigns them to “display\_image” variable.
6. Display image element (display\_images[0] )is styled to set its background image as the uploaded\_image URL.
7. The FileReader reads the selected file using the readAsDataURL method.

## Notes Section

The JavaScript file commentSection.js contains a React component called commentSection. It allows the user to send feedback or any other notes to the Business Owner regarding the product. This feature allows the user to give more specific details about their custom orders and allows a dialog to open between the user and the business owner which limits incorrect orders and returns.

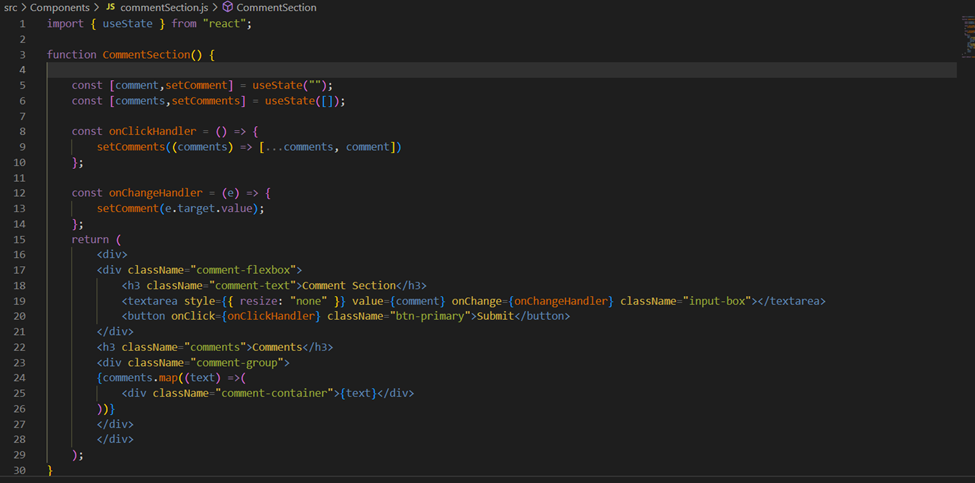


Figure 12 Code snippet. Implementation of the Notes Section.

The Following steps were taken to implement this Functionality:

1. Imported the useState hook for state management within functional requirements from the react Library.
2. Declared two state variables, comment and comments using the useStatehook.

comment variable holds the comment entered by the user and comments variable which is an array which stores the submitted comments.

1. Created an onClickHandler function which is called when the user presses the submit button.
2. The structure and the content of the CommentSection component, including the including the text area where the user can input their comments, are defined by code in the return statement.

## Add to Cart

The Cart component is a React component that represents a shopping cart. It displays a list of items added to the cart along with their details such as product size, colour, and quantity. User needs to select product size and colour before pressing the add to cart button. The component also provides a button to remove items from the cart.

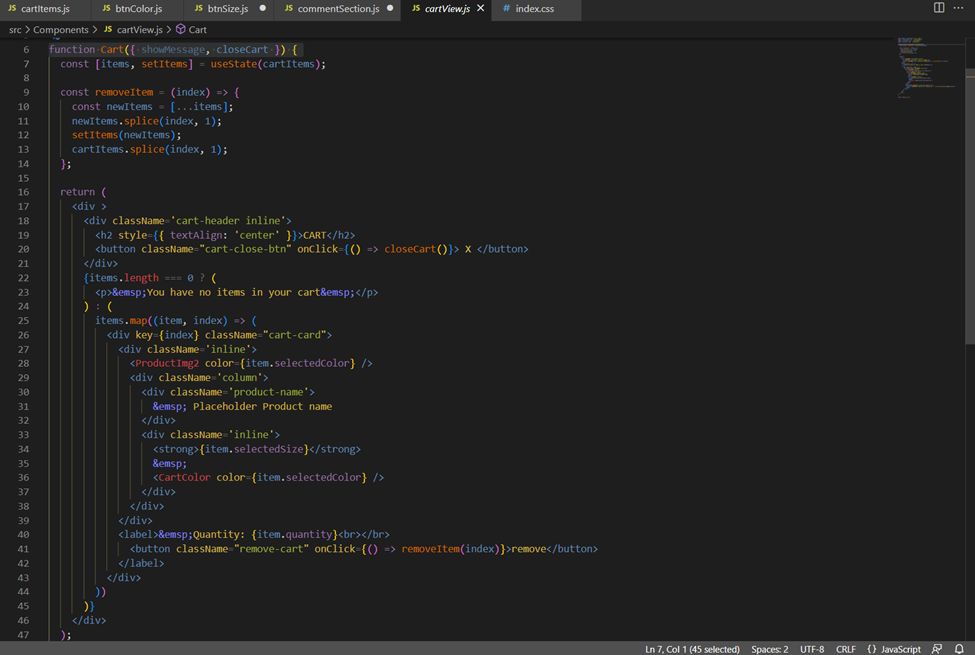


Figure 13 Code snippet. Implementation of Add to cart Functionality.

The Following steps were taken to implement this Functionality:

1. Code has a functional component ‘Cart’ that receives two props: ‘showMessage’ and ‘closeCart’. It uses the ‘useState’ hook to manage the state of the items inside the cart. The User Interface consists of a cart header, a close Button, and a list of the items in the cart.
2. “useState” is used to initialize the ‘items’ variable with the contents of the ‘cartItems’ array. This array represents the items in the cart.
3. ‘setItems’ Function is used to update the state with a new item list when items are removed.
4. “removeItem” function is called when the user presses the ‘remove’ button for any of the items they added to the cart. ‘splice’ method is used to remove the item at a specified index from ‘newItems’. ‘setItems’ function is called along with the ‘newItems’ to update the state, and ‘cartItems’ array is also updated to keep all the changes.
5. This component shows a cart header with the title and a close button, if the ‘items’ array is empty, a message is displayed that there are no items in the cart. If the cart is not empty, the component iterates over the ‘items’ array and shows the card of the item and the card contains the image of the product, size of the product, colour of the product, and quantity of product. Every card has a remove button when the user presses the remove button item will be removed from the cart.

## Checkout Page

The checkout page is a react component named “CheckoutPage”. It displays the checkout page of the website. It asks for information such as first and last name, address, city, province, postal code, country, contact information and a delivery method. On the checkout page, users can check their cart before they confirming their order. When clicking submit button the client receives an email including all the details of the cart as well as customer information.

A screen shot of a computer

Description automatically generated

Figure 14 Code snippet. Implementation of the checkout page (1).

The Following steps were taken to implement this Functionality:

1. Imported the useState hook from the libraries of React for state management within functional requirements. The ‘useState’ hook is used to manage the form fields named as ‘firstName’, “lastName’, ‘country’, ‘address’, ‘city’, ‘province’, ‘postal code’, ‘phone’ and ‘Delivery Method’. The text entered by user is stored in the state variables and the changes to the fields are handle by the functions like “tohandleFirstName, “tohandleLastName”, “tohandleCountry”, “tohandleAddress”, “tohandleCity”, “tohandleProvince”, “tohandlePostalCode”, “tohandlePhone”, “tohandleDeliveryMethod”.

A black screen with colorful text

Description automatically generated

Figure 15 Code snippet. Implementation of the checkout page (2).

1. The “isFormValid” function checks each field is filled or not. If every field is filled, then only the Submit button enables. Submit button is disabled if any of the fields of form are empty.
2. ‘Item’ state variable is there to keep track of items which are inside the cart. Initializes the ‘useState’ hook and updated in “useEffect’ hook to retrieve the cart items which were stored previously from the localStorage.
3. ‘removeItem’ function allows the user to remove items from the cart which updates the ‘items’ state and it also removes it from the local storage.
4. ‘handleCheckout’ function is called when submit button is pressed. This function is responsible for the sending emails to the client with all the customer details and the cart details and email is send by ‘emailjs’ library.
5. This function creates an ‘emailTemplateParams’ this holds the information that is required to compose the email. It includes the sender’s name which is ‘from\_name’, the recipient’s name which is ‘to\_name’ as well as subject of the email and the body of the image.
6. The message body includes first name, last name, country, address, city, province, postal code, phone, delivery method and the whole list of the items which are added by the user in the cart.
7. Items are looped using map function to include their details in the body of the email.

A screen shot of a computer

Description automatically generated

Figure 16Code snippet. Implementation of the checkout page (3).

1. Then it calls emailjs.send method, passing the necessary parameters such as email service ID, template ID and the user email authentication key and ‘await’ is used for the email sending process to complete.
2. If email is sent successfully “isEmailSentSuccess’ state variable to true which shows email is sent successfully.
3. Moreover, cartView is also there on the checkout page so user can check their cart items on the checkout page.

## App

The ‘App’ component is the core of the NKIN website it managed cart interactions and displays product customization options and images. It allows users to select product customization options, add items to a cart and view the cart with the selected options.

A screenshot of a computer

Description automatically generated

Figure 17 Code snippet. Implementation of the App Component.

1. There is ‘useState’ hook is used to create and manage the state variables. State variables ‘showMessage’, ‘selectedColor’, ‘selectedSize’, ‘quantity’, ‘quantityValid’, ‘cartRefreshCount’, ‘selectedImageId’ and ‘comment’.
2. The addToCart checks the size, colour, and quantity. If size colour and quantity is valid it adds the item to the cart
3. ‘openCart’ sets the message to true and it displays cart view and clsoeCart sets message to false by not showing the cart.
4. ‘BtnSizes’ handles size selection, colorBtnMatrix handles colour selection and ‘InputQuantity’ provides field for the selection of the quantities.
5. From the front-page whichever image is selected it shows on the app page based on the selected image id and product name as well based on the selected product.
6. The comment section is there if customers want to add the notes.

# Testing

This section gives an overview of the tests done to ensure the project works as intended. The tests include general checks done to validate basic feature functionality during development. The team used Jest testing to evaluate the Front end and Selenium tests to verify the UI. Each team member manually tested features during development, and the team also performed automated testing using the testing methods mentioned previously.

These tests played a key role in identifying and resolving any issues, significantly improving the functionality of the project. These tests have been documented and presented.

## 5.1 General Testing

This section presents the manual testing conducted by team members during the development of their respective code components. The following tests were executed manually to validate the functionality of the system:

* Colour addition input testing
* Notes section input checks
* Colour changes
* Size changes
* Quantity input checks
* Add to cart testing
* Node server tests
* Data persistence tests

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test** | **Test Case** | **Input (if applicable)** | **Expected Outcome** | **Pass/Fail** | **Comments** |
| 1 | Colour Add Input-correct input | #000000 | Colour black is added to colour buttons | Pass | Works as expected |
| 2 | Colour Add Input-incorrect input | 123 | Error message is displayed | Pass | Didn’t have error checks in beginning, added after testing. |
| 3 | Insert Note-normal | Hi, this is a test | The note is added to the notes element | Pass | Works as expected |
| 4 | Insert Note-large note | Kk…(large comment) | Note is added, but not withing the expected area | Fail | Css was corrected after the test |
| 5 | Item Colour Change | Select red button | Item’s colour changes to red, the selected button should have black border | Pass | Works as expected |
| 6 | Size Selection | Selecting ‘S’ size | Selected button should have black borders | Pass | In the beginning the button did not have borders, after test this was fixed |
| 7 | Insert Quantity-correct value | 12 | The quantity is changed successfully | Pass | Works as expected |
| 8 | Insert Quantity- incorrect value | 141 | Error Message displayed | Pass | Range set is between 12- 100 |
| 9 | Remove all Items in Cart | N/A | Empty cart message is displayed | Pass | Works as expected |
| 10 | Adding to cart- with items | Click on Add Button when size and colour are selected | Item is added to cart | Pass | Works as expected |
| 11 | Adding to cart- Size is not selected | Click on Add Button | Error pop up saying Size is not selected | Pass | Works as expected |

## 5.2 Jest Testing

In the development of the web application, the team used the Jest testing method. Jest is a popular testing framework that allowed the team to conduct unit testing and evaluate the front-end functionalities of the application. Through manual testing and automated Jest tests, we assessed the different features, including size and colour selection, drag and drop functionality, minimum quantities, and the cart system. This testing approach played an important role in identifying and resolving any potential issues, guaranteeing that the final design delivers a fluid user experience.

### 5.2.1 Button Colour

This test consists of two parts: one to assess whether the button selection alters the background colour and the other to verify the proper functioning of the function handler. In the first part, the test renders the button colour as red and then confirms if the background style of the button is indeed red. This step is crucial because, in the function handler, we set the Item's background colour to match the button's background colour. Moving on to the second part, the page is rendered again with the button colour. This time, the test proceeds to click on the button and check if the function "addItemColour" is called with the expected colour, which in this case is red.

![A screen shot of a computer program

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE93bmVyAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MQAAkpIAAgAAAAM3MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//2Q==)

Figure 18 Code snippet. Implementation of the Jest testing method.

### 5.2.2 Button Size

The test begins by checking if the addSize function is triggered upon clicking the button. Jest generates the addSize function, and the button size page is rendered, passing in the addSize function and the selected size. Next, the test clicks the button and verifies if the addSize function receives the expected input, which is the selected size. Moving on to the second part of the testing, it checks if the size-selected CSS class is present when the button is selected. The page is rendered again, and the button class is examined to determine if it contains the size-selected CSS class, indicating the button is currently selected. First, the test checks if the selected button has the class, and then it verifies the other button's class that is not currently selected. If all the test outcomes match the expected results, the test passes with a green signal.

### 5.2.3 Cart Colour

Like the button colour test, this test focuses on verifying the correct display and creation of the colour button for the cart section. To begin, we render the button with the colour red using the getByRole() function in Jest. As there is only one button in the class, this method helps us retrieve it. Using the expect() function, we then check if the button has the correct style, specifically confirming whether the background colour of the button is indeed red. Additionally, we ensure that the button is disabled, as it serves a viewing purpose for customers to confirm their selected colour, and clicking on it should have no effect.

### Cart View

Automated tests were created to test the functionality of the cart that appears on the side of the page, for the client to view the created items. The Jest for cart view will test if the quantity, size, and added colour will appear as the client had added. The test starts by rendering the Cart component and checking if the message displaying ‘You have no items in your cart’ will not be shown. Next, the team retrieves the colour and size elements from the item in the cart to check if these elements match with the passed values.

### 5.2.5 Notes section

The Jest tests assess the functionality of the notes section, where clients can leave specific notes regarding special features or confirmations they desire for the product. The test begins by rendering the Notes Section Components and obtaining references to the text area and submission button. Next, we set the value 'This is a note' to the text area and simulate a click event on the submit button using fireEvent. Then, the team verifies if the number of items in the note's container has increased by 1 and if it matches the text we entered. If the outcomes align as expected, the test successfully passes.

### 5.3 Cypress Testing

In the development of the Bridal Wear project, Cypress testing played a fundamental role in validating and fine-tuning the application's functionality. The team comprehensively assessed critical components and features using Cypress, ensuring the presence and seamless operation of the colour button on the product page, the accessibility of the input quantity field with valid numeric inputs, the responsiveness of the quantity button, the smooth customization of the import image feature, and the functionality of the comment section and checkout page. Cypress also facilitated thorough evaluation of the drag and drop capabilities, ensuring effortless image resizing and repositioning on the product display. These exhaustive Cypress tests instilled confidence in the application's reliability, leading to an exceptional user experience.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Description | Test Step | Expected Result | Status |
| 1 | colour button | Reach to the product page, and then check if the colour button component there or not | All the colour buttons should appear on the testing browser and user are be able to select the colour | PASS |
| 2 | Input quantity field | Reach to the product page, and then check if the input quantity component there or not | The quantity field should appear on the testing browser and allow user to input any number in a valid range | PASS |
| 3 | Quantity (+,-) Button | Reach to the product page, and then check if the quantity button component there or not | The quantity button (+,-) should appear on the testing browser and allow user click any of them to adjust the value in a field | PASS |
| 4 | Import Image | Reach the product page, and then check if the import button component is there or not | The import button should be found on the testing browser and allow user to import the .PNG file for the customization purposes | PASS |
| 5 | Comment Section | Reach to the any product page, and then check if the comment section field component there or not | The comment section should be found on the testing browser and allow user leave comment in the field | PASS |
| 6 | Checkout page | Try to add a product, and then check if the checkout section pops up on the screen or not | After user click add the product, the checkout page should appear full screen with a cart and personal information filling in | PASS |
| 7 | Drag and drop | Try to drop an image on the screen and check if that image really appears on screen or not, and then check if it can move and resize freely or not | It should appear and can be resized and moved to anywhere on the product display | PASS |

# Results and Analysis

The testing process for the Bridal Wear project yielded positive outcomes, with all test cases passing successfully. The "colour button" test confirmed that the button accurately displayed the given colour, meeting the expected result. In the "Input quantity field validation" test, the application appropriately handled both invalid and valid inputs, returning error messages for invalid numbers and accepting correct numbers within the specified range.

The “Quantity Button" test demonstrated the successful handling of valid quantities within the range of 12-99 and generated error messages for quantities outside this range. The "Import Image" test effectively rendered imported images on the web page, ensuring seamless image display. Additionally, the "Comment Section" test validated that user comments were correctly captured and included in the return email after checkout, as expected.

The "Checkout page" test confirmed that selected product options, size, colour, and comments were accurately displayed on the checkout page. The "Confirmation email form" test verified that all information regarding the selected product and personal details were correctly reflected in the confirmation email after checkout.

Moreover, the "Drag and drop" test demonstrated successful image upload, allowing users to freely move and resize the image on the screen. Finally, the "Refresh cart" test successfully retained all cart items on the server and displayed them correctly on the website even after a refresh.

Overall, the positive outcomes of these test cases indicate the working functionality and reliable performance of the Bridal web application, assuring a seamless user experience. This can be seen and verified through the final testing table below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Description | Test Step | Expected Result | Status |
| 1 | colour button | Try to give the colour button an actual colour. | The result of the colour button is the same as the colour given. | PASS |
| 2 | Input quantity field validation | Input the invalid number (out of 12-99) and the valid number (in range of 12-99) | It should return a message if the invalid entered and return the correct number if the user entered valid number | PASS |
| 3 | Quantity (+,-) Button | First, I give the quantity button a valid quantity (in 12-99). The other time, I try to give out an invalid quantity (out of 12 and 99) | In the first case, it should return the correct value I gave. At the second case, it should return an error message | PASS |
| 4 | Import Image | Import an image | The app successfully renders that image to the web page. | PASS |
| 5 | Input quantity | Input the number but after a number, give it some character such as 123abc | it should print out the message error and ask user to enter an actual number | PASS |
| 6 | Comment Section | Input a line of message in the comment section | After user checkout, the comment will go along exactly in the return mail which will be sent to users after they complete checkout | PASS |
| 7 | Checkout page | Select properly product, size, colour, comment something | Display correctly what the user just chose on the checkout page. | PASS |
| 8 | Confirmation email form | try to checkout a product with all components selected | The confirmation email will have all the correct information about the product and all the personal information | PASS |
| 9 | Drag and drop | Select a .PNG file in my own computer and drop it in the drag and drop window | It appears on the screen now, and freely to move and resize | PASS |
| 10 | Refresh cart | Try to add some items in the cart with server on and check if the items in the cart still there when the website got refreshed | All the items on cart should be saved on the server and display on the website correctly like what they are before being refreshed | PASS |

# Conclusions and Recommendations

The project has been a success. The team has successfully met the project's scope within an appropriate timeframe, resulting in the development of a complete product for the client. The NKIN project now includes a pallet colour picker, notes section, cart, and quantity limitations per product (ranging from a minimum of 12 to a maximum of 999). These functionalities have significantly improved the user experience, making online shopping efficient and enjoyable.

The team highly recommends incorporating additional features to further enhance the client's store:

* Portability, ensuring the platform is easily accessible and compatible with different devices, such as smartphones and tablets.
* Compatibility with various web browsers and operating systems.
* Scalability and future growth by designing the platform to handle increased user traffic.

These points can be addressed by incorporating the platform into NKIN's existing Shopify store. This would benefit the business by alleviating many of the server sided issues as the website will utilize Shopify’s built in tools to manage data. Frequent Shopify updates would also keep the website up to date. It would also benefit the customers by providing more security of their information and by providing Shopify’s common look and feel for ecommerce.

In conclusion, the website was built, tested, and fully functional by the deadline. In addition to further improving the platform, the team recommends focusing on portability, compatibility with other devices, and scalability, which will contribute to the platform's overall success and future growth.

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# Glossary

|  |  |
| --- | --- |
| **Accessibility** | Ensuring that the website is usable by people with disabilities and meets accessibility standards.[13] |
| **Backend** | The server-side part of a website or application responsible for processing requests, managing data, and performing other server-related tasks.[14] |
| **Bug** | An error or defect in the code that causes unexpected behaviour in the software.[14] |
| **Buttons** | Interactive elements that allow users to make selections or perform actions.[16] |
| **Code** | The written instructions that tell a computer what to do, usually in a programming language.[14] |
| **Components** | Modular and reusable building blocks of a web application's user interface.[16] |
| **Compatibility** | Ensuring the platform works well with various web browsers and operating systems.[16] |
| **Criteria** | The factors and considerations used to make design decisions.[16] |
| **CSS** | Cascading Style Sheets, used for styling and formatting web pages.[11] |
| **Customizations** | The ability to modify and personalize bridal products according to the customer's preferences.[16] |
| **Data Persistence** | The ability of the website to store and retrieve data.[16] |
| **Develop** | To create, design, and implement software or web applications.[16] |
| **Development Environments** | The technology stack and tools used for building the project. |
| **Drag and drop** | A feature that allows users to move elements by dragging and dropping them. |
| **Error** | An unintended mistake or problem in the code that causes the program to behave unexpectedly.[14] |
| **Frontend** | The client-side part of a website or application responsible for the user interface and user experience.[14] |
| **Functionality** | The extent to which a software or web application performs its intended functions.[16] |
| **HTML** | Hypertext Markup Language, used for creating the structure of web pages.[11] |
| **Hexadecimal format** | A way of representing colours using a combination of six alphanumeric characters.[16] |
| **JavaScript** | A popular programming language used for web development.[11] |
| **Manual Testing** | Testing conducted by team members during development to validate basic feature functionality. |
| **Node.js** | A server-side JavaScript runtime environment.[8] |
| **Program** | A set of instructions that tell a computer how to perform a specific task or solve a problem.[14] |
| **Prototype** | An early version of a product used for testing and validation before the final version is developed.[16] |
| **React.js** | A JavaScript library for building user interfaces.[6] |
| **Responsiveness** | The ability of the website to adapt and display properly on different devices and screen sizes.[14] |
| **SCRUM development method** | An agile project management framework used to manage software development.[12] |
| **Scope** | The range of features and functionalities that a software or web application is intended to have.[16] |
| **Test Cases** | Specific scenarios and inputs used to test different features and functionalities of the application. |
| **Test Results** | Outcomes of the tests, indicating whether they passed or failed. |
| **User-friendly** | Designed to be easy and intuitive for users to interact with and understand.[16] |
| **Visual Studio** | A popular code editor used for web development.[15] |

# Appendices

Not Applicable.