



# **IT3060 Human Computer Interaction**

## **3<sup>rd</sup> Year, 1<sup>st</sup> Semester**

### **Assignment 2**

### **UX/UI for gatesnfences.com Website**

Submitted to

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## Video Transcript

### Customer

**Interviewer : Tell us why your company have selected this specific website to buy products? [0.00] [0.52]**

Customer : HI I am Isura Eranda currently working as a store executive in a construction company I am the one who is in charge of buying the relevant products to the company using online platforms. the main reason why we have selected these specific websites is because this has variety of products for fair prices related to gates and fences only the concern is that the user friendliness of this site is poor mainly this site is not attractive

**Interviewer : As a store executive of a company how do you see this website compared to similar websites with your experience? [0.53] [1.23]**

Customer : In my experience compared to other sites this has variety of products but because of the poor user friendliness of this website it's hard to find the relevant products quickly so it will consume more time compared to other websites.

**Interviewer : What do you think about the arrangement of the home page? [1.24][2.00]**

Customer : First of all, the home page is not attractive this contains different font sizes some are small so it's very hard to read and also the search bar here does not work properly we cannot search any product here so it will consume more time to search for a relevant product the header and the footer of this website does not match the theme and not eye catching.

**Interviewer : Can you please go through the checkout process by adding a product to the cart? [2.01] [2.43]**

Customer : If we go to a category using this side navigation bar ill navigate to the gate accessories here the product items are not properly displayed it's not in an order and also its not attractive it's hard to find the description for the relevant product. some images are too small and not clear it's also confusing that same links in the side navigation bar has been displayed on the header some have add to cart buttons, but some does not so it's confusing.

**Interviewer: (do you have any recommendations to be added to this page ?) [2.45] [3.50]**

Customer : Yes indeed I recommend that it will be better if they had 2 or more images of a single product from different angles so it will be easy for me to observe the product that I want to buy .the product descriptions are messy no line spacing so it's hard to read the description its good if they have added the real product image rather than adding an animated product image now I shall go to the checkout page here the interface is complex for me and not attractive as well when I update the quantity, I should again have to press the recalculate button.

**Interviewer: do you have any suggestions for that? [3.51] [4.04]**

Customer : Yes, it's good if it would auto re calculate and its better if it had a drop down with numbers.

## **Guest user**

**Interviewer: First of all, can you give me an introduction about yourself? [0.12] [0.25]**

Guest user : Yeah sure. I am Udana Isiwari. I am a 4<sup>th</sup> year student at SLIIT. I am using this site as a guest user.

**Interviewer: As a guest user, what is the purpose of using this site? [0.27] [0.54]**

Guest user : I am very interested in UI designing. Therefore, I decided to do research about UI designing principles and what is the importance of proper UI designing. Then I randomly choose few sites to do the analyzation. As a result of that I choose this site.

**Interviewer: what kind of user experience do you have when using this site? [0.56] [1.28]**

Guest user : As an ecommerce site, this site has a huge variety of products. Therefore, there are so many user interfaces. I chose few pages to analyze. When I refer those pages, I felt it's hard to use this site because this site is too complex. Effectiveness is in very low level.

**Interviewer: what is your idea about these user interfaces? Are they user friendly? [1.29] [3.22]**

Guest user : No. It's not. First, I refer "contact us" page. It includes form. It's not attractive and also not user friendly because some form labels and placeholders are overlapped. Elements of form are not aligned. And, in some places they are using checkboxes instead of radio button. Then I refer "Gate Openers" page. That one also not attractive. Product images are too small. Font size is too small. Elements are not aligned. And it's hard-to-find image and description that relevant to image. It's a very bad thing. Because the main purpose of this site is selling a product. But it's too hard to find a suitable product. Because these user interfaces are not well organized. Then I chose "Doorking loop detectors and safety sensors" page. That page has too many links. Font size is too small. Images are not aligned. And there is a huge blank page space in the bottom of page. This page also has same problem which is hard to find product and relevant description. Unattractive.

**Interviewer: What are the things that should be changed in this site according to your point of view? [3.23] [4.13]**

Guest user : I think you can make this website more attractive by using proper colors and theme. According to theme u can create navigation bar and header. Then you can increase attractiveness of your web site. U can remove some unnecessary things and keep the content in an organized way. And also, you can use attractive icons and user-friendly forms. Keep consistency in UI s. If you change those things, you can improve your site in a better way.

## **Dealer**

**Interviewer: What is the purpose of using this website? [0.00][0.46]**

Dealer : My name is Lalithya Sandeepani. I am owner of the ABC company. I have a soleproprietorship which conduct business on an online platform that sells gates and openers so rather than manufacturing its more profitable to make a good deal with a company like this so. My main purpose is to get into a deal with this company.

**Interviewer: Why did you choose this website? [0.47][1.22]**

Dealer : I conducted research on my own as a result of it I got to know about this website from one of my friends. this has variety of products which is related to gates and fences and the prices are cheap compared to others.

**Interviewer: (so you are getting goods cheaply from here and selling them on your website?)**

Dealer : Yes, exactly I get wholesale goods from here and sell them retail in my website.

**Interviewer: As you mentioned that you have your own website compared to that what differences do you note here in this website? [1.24][2.05]**

Dealer : Over roll my first impression when i saw this site was it lacks user friendliness and also too many elements are cluttering the page. no clear structure so it feels confused or even annoyed.

**Interviewer: (how have you address these problems in your websites?)**

Dealer : As I'm a software engineer as well I am daily updating myself with the latest and trendy designs so that we update our website frequently we have a clear structure on the website.

**Interviewer: As I got to know that you are a software engineer as well, I like to ask What are the bad features and designs that you see in this website? [2.07][3.52]**

Dealer : This website is not eye catching a website should be attractive in order to gain more users and also this lacks simple navigation same links in the side navigation bar has been displayed on the header as well and links some features does not work properly as an example the search bar here in this home page does not work so I have to spend more time to search relevant product. It was hard for me to find the dealers application as it was in the bottom of the page the application is not well organized some place holders are out of the form text are in different colors haven't put a red star for important fields and also product of interest should be a multiple-choice field as in, I deal gates as well as fences. And also, some product descriptions are unreadable due to small text size, and also this has poor navigation, and it confuses the user what do to next.

## Usability Problems

- ❖ Poor user friendliness in most of the interfaces
- ❖ Different font sizes, some are too small some are too big
- ❖ Website does not have a proper theme
- ❖ Too many elements cluttering the page
- ❖ Links in the side navigation bar has been duplicated
- ❖ Interfaces with too much content
- ❖ Inappropriate font colors
- ❖ Lack of simple navigation
- ❖ The form is built with primary and basic design techniques
- ❖ Too many links
- ❖ Product logos have not been displayed properly
- ❖ No clear structure in the interfaces
- ❖ Header and footer don't match
- ❖ Overall, the Interfaces are not attractive

## Variants of the interfaces

### IT20062088 - Edirisinghe D.B

#### Loop detector page

Loop detector page (version 01)	Loop detector page (version 02)
<p>PROS:</p> <ul style="list-style-type: none"><li>• Products have been listed under each relevant heading so it will be easy for the customer to identify</li><li>• Relevant products brand names and logos can be visible on the side of each product card so the user can clearly identify the brands that they are looking for</li><li>• Products relevant to each brand have listed separately inside a frame so the page is more organized not cluttered</li><li>• Product images can be clearly identified</li></ul>	<p>PROS:</p> <ul style="list-style-type: none"><li>• Many items can be listed in a small amount of space so the user can see more varieties at once</li><li>• Brand names are listed on top of the page if the customer searching brand is not listed, he can skip the page by just checking the logos</li></ul>
<p>CONS:</p> <ul style="list-style-type: none"><li>• Comparatively low amount of item cards will be able to display at once under each brand</li></ul>	<p>CONS:</p> <ul style="list-style-type: none"><li>• Product images are comparatively small.</li><li>• Products are not displayed under relevant headings</li><li>• Too many elements cluttering the page</li></ul>
<p><b>JUSTIFICATION:</b></p> <p>(Version 1) has more PROS than CONS the user will prefer to use (version 1) over (version 2). (Version 1) has more creativity and the interface is more organized. relevant brand names, logos can identify clearly under each product. in (version 2) even though more mount of cards could be displayed in a small space the products images, descriptions would not be visible compared to (version 1) therefore with majority of pros and less cons (version 1) would be selected.</p>	

## Hinges Page

Hinges Page (version 01)	Hinges Page (version 02)
<b>PROS:</b> <ul style="list-style-type: none"> <li>The full description can be clearly visible.</li> <li>User could select any color easily if its available.</li> <li>Page descriptions have been properly organized.</li> <li>The user will be able to observe the products from different angles.</li> <li>All details are clearly mentioned and organized inside frames, so the page looks attractive</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Many product cards have been displayed in this page</li> <li>Traditional product cards that the user will not be confused</li> <li>User could buy products easily with less time consuming</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Comparatively low amount of item cards will be able to display at once</li> <li>Will consume more time to search products by clicking the side arrows</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>The user has been limited to one product image</li> <li>Due to long descriptions the product cards seem to be packed and not organized</li> <li>Text sizes will be comparatively small due to lack of space</li> <li>No attractive color selection method</li> </ul>
<b>JUSTIFICATION:</b> <p>(Version 1) has more PROS and less CONS compared to (version 2). product cards in this original interface have long descriptions and this interface is the only interface that user will get to observe the products clearly and select their preference it directly navigates to the checkout page after clicking add to cart .so in (version 1) the user have given more than 1 image to observe from different angles. the descriptions are clearly visible. (Version 1) seems more organized compared to (version 2), therefore (version 1) have been selected</p>	

## Dealers Application

Dealers Application (version 01)	Dealers Application (version 02)
<b>PROS:</b> <ul style="list-style-type: none"> <li>Form have been divided by relevant headings in to separate frames</li> <li>Place holders are well organized</li> <li>Repeating fields have been restricted to a step navigator so the user won't get confused</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Simple interface design anyone could understand</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Customer who's lack of technical knowledge might get confused due to the step navigator</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>Place holders are not well organized</li> <li>Some form headings are being merged with the other headings</li> <li>The interface is not attractive</li> <li>No images are present</li> <li>Fields have been repeated</li> </ul>
<b>JUSTIFICATION:</b> <p>(Version 1) is more attractive and organized than (version 2), the form in (version 2) has been built with basic designs. the user will prefer (version 1) as it is well organized and does not contain repetitive fields</p>	

## IT20601874 – Jayarathne D.A.S.A.

### SEA gate opener

SEA gate opener (Version1)	SEA gate opener (Version2)
<b>PROS:</b> <ul style="list-style-type: none"> <li>Company description is in top on the page and that description has been display in a box in order.</li> <li>All the product details are well aligned, So customer can find relevant product and description easily</li> <li>Fonts and font sizes are suitable</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Company description is in top on the page and that description has been display in a box in order.</li> <li>Customer can see more products without scrolling down.</li> </ul>

<b>CONS:</b> <ul style="list-style-type: none"> <li>Customer has to scroll down to see all the products</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>Items are not aligned.</li> <li>Arrange product items on the page is less attractive, because of item's descriptions are different sizes.</li> </ul>
<b>JUSTIFICATIONS:</b> Comparing version 1 and version 2, version 1 is the most organized and user friendly. Version 1 is attractive, and version 2 is just displaying a lot of products at once. Due to that reason version 1 is perfect than version 2.	

### Viking Access Openers Page

Viking Access Openers Page(Version 01)	Viking Access Openers Page(Version 02)
<b>PROS:</b> <ul style="list-style-type: none"> <li>All the products are well aligned.</li> <li>Customer can easily find the right product and relevant details</li> <li>If there are more data, Customer can see those data by clicking see more button.</li> <li>Font sizes are good.</li> <li>Customer can easily add products to cart by clicking add to cart button.</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Customer can see all the details from the same page without opening another pages.</li> <li>Customer can easily add products to cart by clicking add to cart button.</li> <li>Good sized images.</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Customer must scroll down to see all the items.</li> <li>Customer must open another page to view all details.</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>There are so many blank spaces in this page.</li> <li>Due to the incorrect ordering of the item photos and descriptions, this page is less appealing.</li> <li>There are so much texts and customer might get confused.</li> </ul>

**JUSTIFICATIONS:**

I can decide that Version 1 is preferable to Version 2 based on these benefits and drawbacks. Version 1 is the most user-friendly option because it is superior in terms of appeal and user-friendliness.

**Shopping Cart**

Shopping Cart (Version 01)	Shopping Cart (Version 02)
<b>PROS:</b> <ul style="list-style-type: none"> <li>• Customer can find all the details clearly.</li> <li>• Customer can easily change quantity in the cart page.</li> <li>• Customer can remove items if he wants.</li> <li>• Customer can remove all the products from the page.</li> <li>• Good spacing and not confusing.</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>• All required details are included to the page.</li> <li>• Customer can remove items if he wants.</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>• User has to give shipping info in the same page.</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>• Users will get confused because of Shipping details and order total are not clearly organized.</li> <li>• There are some blank spaces.</li> <li>• Customer might get confused because Remove item button don't has a text.</li> <li>• Customer can't change the quantity.</li> </ul>

**JUSTIFICATIONS:**

I can decide that Version 1 is preferable to Version 2 based on these benefits and drawbacks. Version 1 is the most user-friendly option because it is superior in terms of appeal and user-friendliness.

## IT20660420 – Nimthara K.A.G.T.

### Contact Us Page

Contact Us Page (Version 1)	Contact Us Page (Version 2)
<b>PROS:</b> <ul style="list-style-type: none"> <li>Users can get better understanding about the things that are asking from form because it is categorized to sections.</li> <li>Very attractive to the users because form is well organized. (Input fields are perfectly aligned in both sides)</li> <li>Checkboxes and radio groups are used in most suitable way.</li> <li>Position of submit and reset buttons are good.</li> <li>Form has placeholders and it will be more understandable for users.</li> <li>Input fields and label are very well organized</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Form has a simple view, and it will cause for user satisfaction.</li> <li>Form has placeholders and it will be more understandable for users</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Have to scroll down a lot to go to the bottom</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>Too much blank spaces in the below of page</li> <li>Comment box is too small then have to use horizontal and vertical scroll bars to read the comment.</li> <li>Checkboxes are the most suitable for ‘purpose to buy’ field. (Because sometimes user have to select both commercial and residential if they use same residential place to do commercial things.)</li> <li>Not well organized (because input fields are scattered)</li> <li>Submit and reset buttons are too close.</li> </ul>
<b>JUSTIFICATION:</b> Compared to both, best option is version 1 because it has well organized and clear form. And also form includes suitable elements in correct positions such as radio groups, checkboxes and buttons. It will increase user-friendliness and attractiveness. Chosen comment box also good. Information that are request from form is clearer to users because of placeholders in the input fields. As a buying and selling site, their main goal is attracted customers to the site. Version 1 is the best alternative to achieve that goal.	

### Driveway Page

Driveway Page (Version 1)	Driveway Page (Version 2)
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<b>PROS:</b> <ul style="list-style-type: none"> <li>Attractiveness is high because perfectly organized the elements of page</li> <li>Easy to understand the content because of the simple view.</li> <li>Because of the way of display can include so many items in one page.</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Easy to understand the content because of the simple view.</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Color chart link is too small.</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>Less user attractiveness because not organized well (product descriptions are not aligned well)</li> <li>Color chart link is too small</li> <li>Some places have blank spaces</li> <li>Description is aligned to the left side of page and it's not much attractive.</li> </ul>
<b>JUSTIFICATION:</b> Version 1 is perfectly organized than version 2. User can understand the content easily and users will mainly focus on the product because of simple and clear view of the page. The only con is color chart link. As a solution we can use eye catchy icons with the link to get the attention from the user. And also, can include so many items in one page. It will very easy to users to explore more products in this site. According to these facts best alternative is version 1.	

### Garden Gates

Garden Gates (Version 1)	Garden Gates (Version 2)
<b>PROS:</b> <ul style="list-style-type: none"> <li>Well organized</li> <li>Users will mainly focus on the product and description (They can choose the color after choosing product)</li> <li>Easy to understand</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Easy to understand.</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Little bit of complex because of too much content.</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>User will mainly focus on color chat. (it's not what it should be because this page mainly focuses on product.)</li> <li>Some places have blank spaces. It will reduce the attractiveness in page</li> <li>Description is aligned to the left side of page and it's not much attractive.</li> <li>User attractiveness will decrease because of too much complex view.</li> </ul>

**JUSTIFICATION:**

Best version is 1<sup>st</sup> one. Because color charts are in the below of page and products details are in above. It will be helpful to get the total customer attraction for products after that users can choose the prefer color. But in the 2<sup>nd</sup> one color charts in the above of page. It will not helpful to get the attraction for products from users. Only con is the too much content and as a solution we can keep space between elements.in 1<sup>st</sup> one perfectly organized and there are no blank spaces. According to these facts I think 1s one is more suitable than 2<sup>nd</sup> one.

**IT20660598 – A.P. Rangodage****Vtrack-Guide-VWheel page**

Vtrack-Guide-VWheel page (Version1)	Vtrack-Guide-VWheel page (Version2)
<b>PROS:</b> <ul style="list-style-type: none"> <li>Company description is in top on the page and that description has been display in a box in order.</li> <li>All product item's details clearly display in a card and customers can see them easily and clearly.</li> <li>Customers can go through the page and scroll down and select their needs.</li> <li>Customer can easily navigate to the shopping cart clicking by 'Add to Cart' button in the card.</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Users can see more product items on the page.</li> <li>It reduces scrolling down the page and makes it easier for customers to choose products.</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Displaying details in order of cards</li> <li>consumes a lot of page space.</li> <li>Consumers often have to scroll down a bit</li> <li>more to select products.</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>There are so many products and their brief</li> <li>description on the page that it feels unclear</li> <li>and cluttered.</li> <li>Item images are very small</li> <li>Arrange product items on the page is less attractive, because of item's descriptions are different sizes.</li> </ul>
<b>JUSTIFICATIONS:</b> Comparing version 1 and version 2, version 1 is the most organized and user friendly. Version 1 is attractive, and version 2 is just displaying a lot of products at once. Due to that reason version 1 is perfect than version 2.	

## FAAC operators page

FAAC Operators page (Version1)	FAAC Operators page (Version2)
<b>PROS:</b> <ul style="list-style-type: none"> <li>Product items are contained in four categories on this page and users can view them easily.</li> <li>Customers can go through in these categories using horizontal scroll and choose items.</li> <li>This page is very clear and easy to use for customers.</li> <li>If customer like some item to buy he can click on the item image and navigate to item's buying page.</li> <li>Customer can see more items in this page.</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Customer can clearly identify the categories on this page.</li> <li>Product item image can be viewed large and clear by users.</li> <li>Customers can find product items using horizontal scroll.</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Each of the four categories shows a few product items, so there is a lack of space on the page</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>There are so many blank spaces in this page.</li> <li>As only one product item is displayed, user has to search required items by horizontal scrolling one by one.</li> <li>This is less attractive page because of item images and descriptions are not in proper order.</li> <li>FAAC logo is in corner of the page.</li> </ul>
<b>JUSTIFICATIONS:</b> According to these pros and cons I can choose version 1 is better than 2 version. The most user-friendly version is version 1, which is superior in terms of attractiveness and easy of selection for users.	

### Shipping and billing page

Shipping and billing page (Version1)	Shipping and billing page (Version2)
<b>PROS:</b> <ul style="list-style-type: none"> <li>The form's all text fields are aligned properly.</li> <li>Shipping details, summary of order and payment details are clearly displayed. So that is easy to find something to users.</li> <li>Shipping address form is properly display on the one side of page and required text fields are clearly mentioned.</li> <li>This page is well organized.</li> <li>All required details are included to the page.</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>All required details are included to the page.</li> <li>Some text fields are aligned properly.</li> <li>Required text fields are clearly mentioned in the page.</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Due to the high content of this page, the user friendliness is reduced to some extent.</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>Most text fields are not properly aligned.</li> <li>Users are confusing because of forms are not clearly organized.</li> <li>Shipping details, summary of order and payment details are not clearly separated on the page.</li> </ul>
<b>JUSTIFICATIONS:</b> Due to above pros and cons version 1 can choose. This is good because the content of this page is high, but the required information is clearly displayed.	

## IT20618254 – Jayaweera M.D.

### Home Page

Home Page (Version 01)	Home Page (Version 02)
<b>PROS:</b> <ul style="list-style-type: none"> <li>Each Product description has related header.</li> <li>Advertisement bar is not distracting to user because it is on the bottom of the page.</li> <li>Top brands are well organized.</li> <li>Image slider is attractive and change image in few seconds.</li> <li>Using best-selling sector instead selecting categories users can easily find each one of categories and it's very eye-catching Glance.</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Easy to find search bar and it is eye-catching Glance.</li> <li>Easy to navigate with best-selling items.</li> <li>Profit of the owner will increase because of advertisement are eye catching to the user which are in the middle of page.</li> </ul>
<b>CONS:</b> <ul style="list-style-type: none"> <li>Search bar is too small. And hard to find.</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>Not have any related titles on description.</li> <li>Categories Navigation bar is in the middle of the page is not a user-friendly designing.</li> </ul>
<b>JUSTIFICATIONS:</b> <p>We can come to a conclusion that the <b>(version 01) user interface is better</b> compared to the (Version 02) one. Version 01 is simple and easy to handle, and content is centered. So that user can directly interact and all elements are structured well. Image slider is attractive than using two images which are on the top of the page. And also best-selling items are well organized.</p>	

### Cantilever page

Cantilever (Version1)	Cantilever (Version2)
<b>PROS:</b> <ul style="list-style-type: none"> <li>User can clearly view products item details in this page because elements are well organized.</li> <li>Customers can choose different models by expanding the box inside the card and can easily add to the cart.</li> <li>The content of this page is moderate in size which has increased the attractiveness and user friendliness.</li> </ul>	<b>PROS:</b> <ul style="list-style-type: none"> <li>Product images are huge and user can easily and clearly see them.</li> <li>Horizontal scrolling is used to view product items on cards</li> </ul>

<b>CONS:</b> <ul style="list-style-type: none"> <li>• In addition to the displayed product items, users have to scroll down a lot to see other items, which reduces user-friendliness.</li> </ul>	<b>CONS:</b> <ul style="list-style-type: none"> <li>• Because the cards are so large, there are only two cards on the page, which takes up space on the page.</li> <li>• The customer has to scroll horizontally to select the desired items and view them one by one.</li> </ul>
<b>JUSTIFICATIONS:</b> <p>Due to these cons and pros, I can select version 1 is better than version2. Because in version 1 the only disadvantage is that the customer has to scroll down a lot and can choose items with user friendliness. The details of the items in version 2 look good, but the cons are more than version 1.</p>	

### Safety Loops Page

Safety Loops Page (Version 01)	Safety Loops Page (Version 02 )
<b>PROS :</b> <ul style="list-style-type: none"> <li>• Detectors section well organized and categorized.</li> <li>• User attractiveness is high, because of elements are perfectly aligned in both sides.</li> <li>• Because of the dropdown we can manage the space efficiently.</li> <li>• Preparation section is clearly display on the page. Hence it will use full forget attraction of users.</li> </ul>	<b>PROS :</b> <ul style="list-style-type: none"> <li>• Can get the user attraction very easily because of the way which are elements aligned.</li> <li>• Can include so many items in one section because of that it easy for user to explore the many products</li> </ul>
<b>CONS :</b> <ul style="list-style-type: none"> <li>• When item count is increasing must scroll down lot.</li> </ul>	<b>CONS :</b> <ul style="list-style-type: none"> <li>• So many white space on the page.</li> <li>• When increasing number of items models in detectors section, it will cause to the widening of blank spaces in left side.</li> <li>• User will confuse because of the messiness in item section.</li> </ul>
<b>JUSTIFICATIONS :</b> <p>Version 01 is the best option because it's well organized than version 02. Content of the page is nicely categories to the and also less white space. Hence attraction of the page is high. Drop down element is used for most suitable positions. According to these fact version one is the best</p>	

## Ideation techniques used

The crucial middle stage of the design-thinking method' five steps is ideation. It connects a knowledge gap exists between characterizing the issue and creating prototypes for testing. deeper understanding. When generating ideas, teamwork is at its best and criticism is minimized, therefore Free-flowing discussion can guarantee the creation of concepts and answers for a specific problem. problem. Five ideation strategies that will improve your team's productivity are presented in this article. innovative solutions and ideas.

### Brainstorming

One of the ideation strategies we do when designing interfaces is brainstorming. It was beneficial for us to engage in group discussion and analysis of the problems with the website we selected. Through group brainstorming and consideration of group members' ideas, we created the best and most aesthetically pleasing interfaces for each of our website pages.

### Worst Possible Idea

All members of the team had their own idea which would be awful to execute, and we listed them separately. This method made it possible for us to spot them early on and opened the path for the creation of user-friendly interfaces.

### Brainwriting

We scheduled meetings every week with all the group members, and we shared our ideas with each other

## How the best design was selected

We designed 2 versions for each interface by considering the usability issues. and the contextual inquiry. thereafter we chose the best from the designed 2 versions by analyzing the design techniques And the user friendliness, effective navigation.

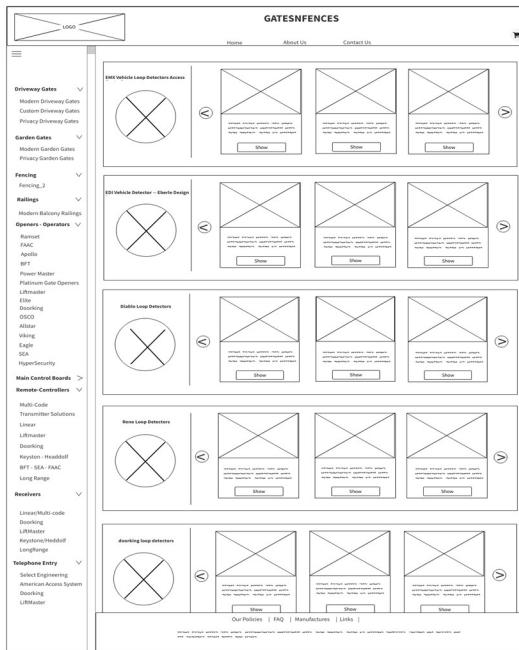
## Time schedule (Gantt chart)



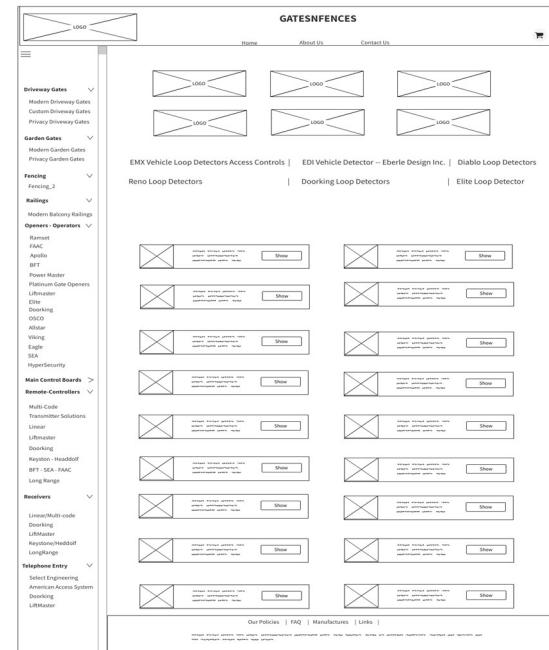
# Appendix

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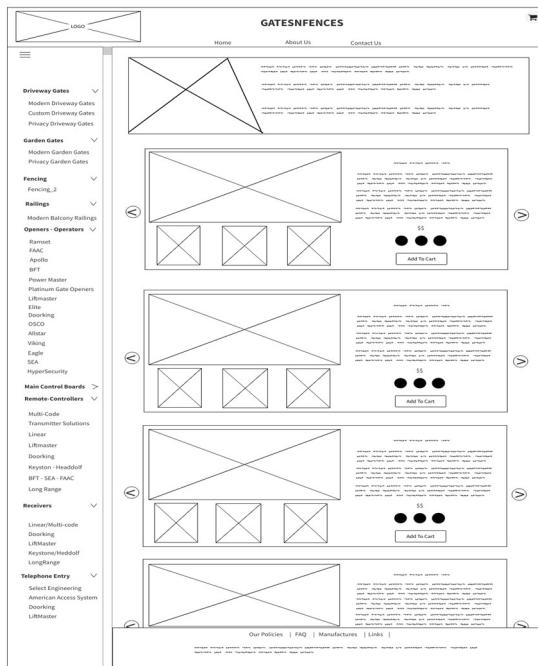
Loop detector page (version 01)



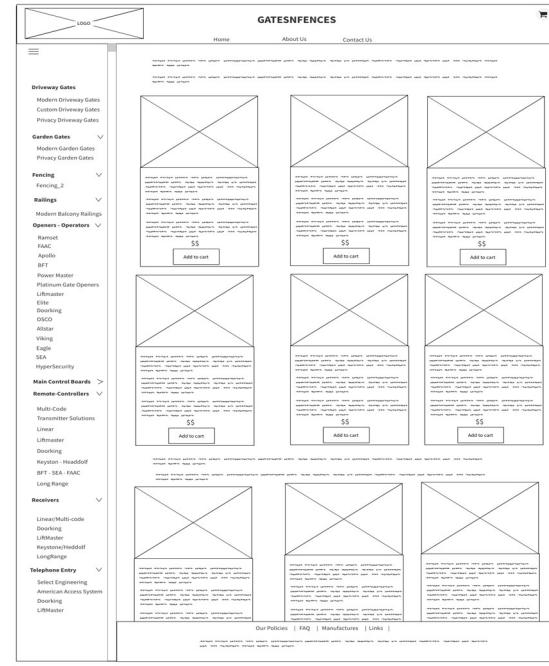
Loop detector page (version 02)



Hinges page (version 01)



Hinges page (version 02)



## Dealers Application (version 01)

**GATESNFENCES**

**DEALERS APPLICATION**

**Company Information**

Company name: [Text Input]  
Street address: [Text Input]  
City: [Select] state: [Select] Zip code: [Text Input] Product Of Interest: [Select]  
Phone: [Text Input] Fax: [Text Input] Email: [Text Input]  
Occupational License: [Text Input] Contractors License: [Text Input]  
Website: [Text Input] Tax ID: [Text Input] Federal ID: [Text Input]  
Type Of Business: [Text Input] Date Established: [Text Input]

**Trade References 01**

Business name: [Text Input] Owners Name: [Text Input]  
Street address: [Text Input] Street Address: [Text Input]  
Contact person: [Text Input] Drivers License: [Text Input] Soc. Sec: [Text Input]

**Personal Information 01**

**Financial Information**

Street Address: [Text Input] Bank Name: [Text Input]  
Phone: [Text Input] Fax: [Text Input]  
City: [Text Input] State: [Text Input]  
Zip Code: [Text Input] Officer / Rep: [Text Input]

Card Type: [Radio Buttons] Card Number: [Text Input]  
City: [Text Input] Expires: [Text Input]

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## Dealers Application (version 02)

**GATESNFENCES**

**DEALERS APPLICATION**

**Company Information**

Company name: [Text Input]  
Street address: [Text Input]  
City: [Select] state: [Select] Zip code: [Text Input] Product Of Interest: [Select]  
Phone: [Text Input] Occupational License: [Text Input] Tax ID: [Text Input]  
Fax: [Text Input] Website: [Text Input]  
Email: [Text Input] Type Of Business: [Text Input]  
Contractors License: [Text Input] Federal ID: [Text Input]  
Date Established: [Text Input]

**Trade References and financial information**

Business name: [Text Input] Owners Name 1: [Text Input]  
Street address: [Text Input] Street Address: [Text Input]  
Contact person: [Text Input] Phone: [Text Input] Drivers License: [Text Input] Soc. Sec: [Text Input]  
Business name: [Text Input] Owners Name 2: [Text Input]  
Street address: [Text Input] Street Address: [Text Input]  
Contact person: [Text Input] Phone: [Text Input] Drivers License: [Text Input] Soc. Sec: [Text Input]  
Business name: [Text Input]  
Street address: [Text Input]  
Contact person: [Text Input] Phone: [Text Input]

**Personal Information**

Bank Name: [Text Input] Street Address: [Text Input]  
Phone: [Text Input] Fax: [Text Input]  
City: [Text Input] Card Type: [Text Input]  
State: [Text Input] Card Number: [Text Input]  
Zip Code: [Text Input] City: [Text Input]  
Officer / Rep: [Text Input] Expires: [Text Input]

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IT20601874 – Jayarathne D.A.S.A.

## SEA gate opener (version 01)

**Home** **About Us** **Contact Us**

- Driveaway Gates
  - Modern Driveaway Gates
  - Custom Driveaway Gates
  - Privacy Driveaway Gates
- Garden Gates
  - Modern Garden Gates
  - Privacy Garden Gates
- Fencing
  - Fencing\_2
  - Railings
    - Modern Balcony Railings
- Openers - Operators
  - Ramsit
  - FAAC
  - Apollo
  - BFT
  - Power Master
  - Platinum Gate Openers
  - Lithmaster
  - Elite
  - Dockering
  - OSCO
  - Allstar
  - Viking
  - Eagle
  - SEA
  - HyperSecurity
- Main Control Boards >
  - Remote-Controllers >
    - Multi-Code Transmitter Solutions
    - Linear
    - Lithmaster
    - Dockering
    - Keyston - Headoff BFT - SEA - FAAC Long Range
  - Receivers >
    - Linear/Multi-code Dockering Lithmaster Keyston/Headoff Long Range
  - Telephone Entry >
    - Select Engineering American Access System Dockering Lithmaster

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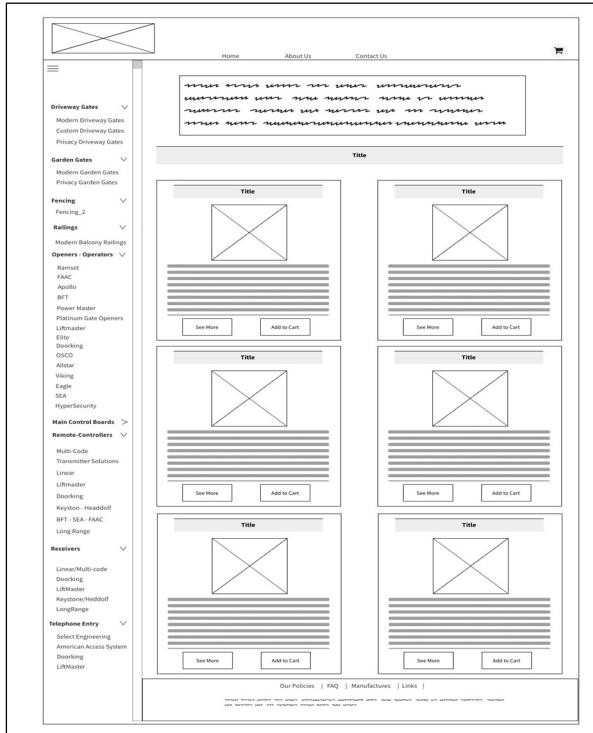
## SEA gate opener (version 01)

**Home** **About Us** **Contact Us**

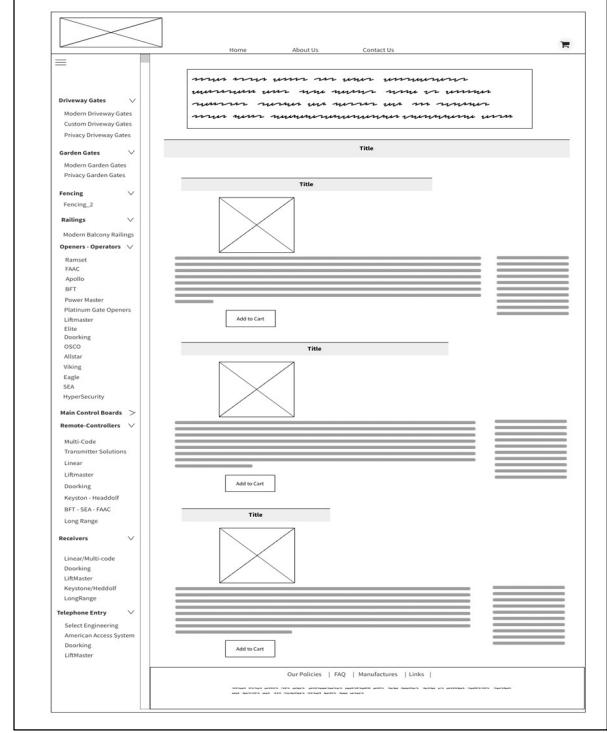
- Driveaway Gates
  - Modern Driveaway Gates
  - Custom Driveaway Gates
  - Privacy Driveaway Gates
- Garden Gates
  - Modern Garden Gates
  - Privacy Garden Gates
- Fencing
  - Fencing\_2
  - Railings
    - Modern Balcony Railings
- Openers - Operators
  - Ramsit
  - FAAC
  - Apollo
  - BFT
  - Power Master
  - Platinum Gate Openers
  - Lithmaster
  - Elite
  - Dockering
  - OSCO
  - Allstar
  - Viking
  - Eagle
  - SEA
  - HyperSecurity
- Main Control Boards >
  - Remote-Controllers >
    - Multi-Code Transmitter Solutions
    - Linear
    - Lithmaster
    - Dockering
    - Keyston - Headoff BFT - SEA - FAAC Long Range
  - Receivers >
    - Linear/Multi-code Dockering Lithmaster Keyston/Headoff Long Range
  - Telephone Entry >
    - Select Engineering American Access System Dockering Lithmaster

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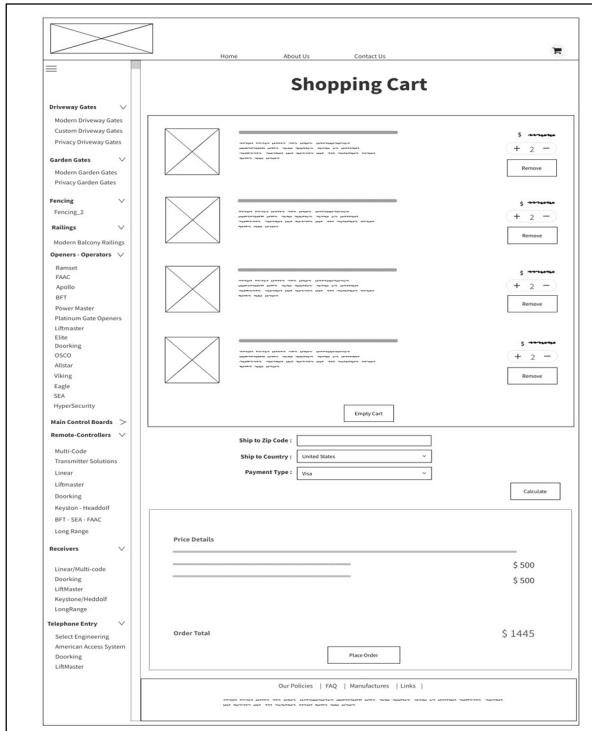
## Viking access openers (version 01)



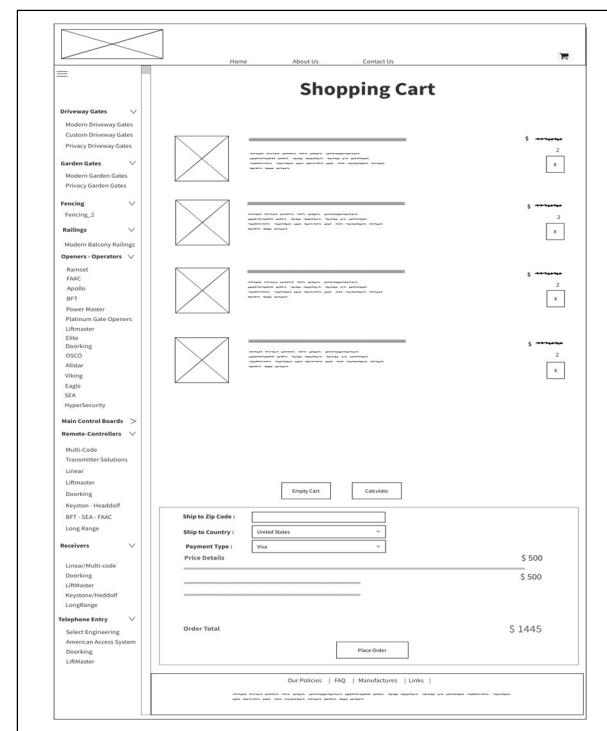
## Viking access openers (version 02)



## Shopping Cart (version 01)



## Shopping Cart (version 02)



### Contact us page (version 01)

**GATESNFENCES**

**Contact Us**

**Contact Details**

Name:

Address:

Zip Code:

Email address:

Contact number:

**Gate Details**

Gate Model:

Gate Color:

Starting Height:  Finish Height:

Will your gates require posts?  Yes  No

Will your fence require posts?  Yes  No

Need matching garden gates?  Yes  No

Need matching fence?  Yes  No

I want a quote for:  Gate  Fences  Railing  Openers  Others

**Gate Opener**

Brand:

Purpose to buy:  Commercial  Residential Model:  Swing  slide

Open the gate by:  Remote control  Key pad  Card reader

Barcode reader  Phone entry  Intercom

How many times will the gate be open and close daily:

How far is your home from the gate:

**Comment box**

Please describe any detail that you think might affect the installation of your Gate or Equipment. Or if you have any Question or Concern use this comment box.

All fields are required

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### Contact us page (version 02)

**GATESNFENCES**

**Contact Us**

**Contact Details**

Name:

Address:

Zip Code:

Email address:

Contact number:

**Gate Details**

Gate Model:

Gate Color:

Starting Height:  Finish Height:

Will your gates require posts?  Yes  No

Will your fence require posts?  Yes  No

Need matching garden gates?  Yes  No

Need matching fence?  Yes  No

I want a quote for:  Gate  Fences  Railing  Openers  Others

**Purpose to buy**

Commercial  Residential Model:  Swing  slide

**Open the gate by**

Remote control  Key pad  Card reader

Barcode reader  Phone entry  Intercom

**Comment box**

Please describe any detail that you think might affect the installation of your Gate or Equipment. Or if you have any Question or Concern use this.

All fields are required

If you prefer not to use the form just click here to send an email.

Our Policies | FAQ | Manufacturers | Links |

### Garden gates page (version 01)

**GATESNFENCES**

**Garden Gates**

**Title**

**Title**

**Title**

**Title**

**Color Charts**

Our Policies | FAQ | Manufacturers | Links |

### Garden gates page (version 02)

**GATESNFENCES**

**Garden Gates**

**Color Charts**

**Title**

**Title**

**Title**

**Title**

**Color Charts**

Our Policies | FAQ | Manufacturers | Links |

## Gateway Page (version 01)

**GATESNFENCES**

Home | About Us | Contact Us

**Driveway Gates**

Modern Driveway Gates, Custom Driveway Gates, Privacy Driveway Gates

**Garden Gates**

Modern Garden Gates, Privacy Garden Gates

**Fencing**

Fencing\_2

**Railings**

Modern Balcony Railings

**Operators - Operators**

Ramset, FAAC, Apollo, BFT, Power Master, Platinum Gate Openers, LiftMaster, Elite, DoorKing, OSGO, Allstar, Viking, Eagle, SEA, HyperSecurity

**Main Control Boards >**

**Remote-Controllers**

Multi-Code Transmitter Solutions, Linear, DoorKing, Keyston-Hedoff, BFT - SEA - FAAC, Long Range

**Receivers**

Linear/Multi-code, DoorKing, LiftMaster, Keystone/Hedoff, LongRange

**Telephone Entry**

Select Engineering, American Access System, DoorKing, LiftMaster

**CLICK HERE TO VIEW THE COLOUR CHART**

Our Policies | FAQ | Manufactures | Links |

## Gateway Page (version 02)

**GATESNFENCES**

Home | About Us | Contact Us

**Driveway Gates**

Modern Driveway Gates, Custom Driveway Gates, Privacy Driveway Gates

**Garden Gates**

Modern Garden Gates, Privacy Garden Gates

**Fencing**

Fencing\_2

**Railings**

Modern Balcony Railings

**Operators - Operators**

Ramset, FAAC, Apollo, BFT, Power Master, Platinum Gate Openers, LiftMaster, Elite, DoorKing, OSGO, Allstar, Viking, Eagle, SEA, HyperSecurity

**Main Control Boards >**

**Remote-Controllers**

Multi-Code Transmitter Solutions, Linear, LiftMaster, DoorKing, Keyston/Hedoff, BFT - SEA - FAAC, Long Range

**Receivers**

Linear/Multi-code, DoorKing, LiftMaster, Keystone/Hedoff, LongRange

**Telephone Entry**

Select Engineering, American Access System, DoorKing, LiftMaster

**CLICK HERE TO VIEW THE COLOUR CHART**

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IT20660598 – A.P.Rangodage

## FAAC Operators (version 01)

**GATESNFENCES**

Home | About Us | Contact Us

**FAAC OPERATORS**

**FAAC Low Voltage Operators**

**FAAC Swing Gate Openers & Operators**

**FAAC Slide Gate Openers & Operators**

**FAAC Arm Barrier Operators**

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## FAAC Operators (version 02)

**GATESNFENCES**

Home | About Us | Contact Us

**FAAC OPERATORS**

**FAAC Low Voltage Operators**

**FAAC Swing Gate Openers & Operators**

**FAAC Slide Gate Openers & Operators**

**FAAC Arm Barrier Operators**

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## Shipping and Billing Information (version 01)

This screenshot shows the 'Shipping & Billing Information' page for GATESNFENCES. It includes sections for 'Shipping Address', 'Summary', and 'Payment - Credit Card'. The 'Shipping Address' section contains fields for First Name, Last Name, Email, Company, Shipping Address 1, Shipping Address 2, Suffix, City, State/Province, Country, Zip Code, and Phone. A checkbox 'Check here if billing and shipping are the same' is present. The 'Summary' section displays a table with columns: Quantity, Name, SKU, Each, and Total. The 'Payment - Credit Card' section includes fields for Payment Method (radio buttons), Card Number, Card Verification Code, Name on Card, Business Name, and Expires Month/Year. A 'Comments/ More Information' field and a 'Submit Order' button are also included.

## Shipping and Billing Information (version 02)

This screenshot shows the 'Shipping & Billing Information' page for GATESNFENCES (version 02). It features a more complex layout with multiple sections for 'Shipping Address' and 'Payment - Credit Card'. The 'Shipping Address' section includes fields for First Name, Last Name, Company, Shipping Address 1, Shipping Address 2, Suffix, City, State/Province, Country, Zip Code, and Phone. A checkbox 'Check here if billing and shipping are the same' is located at the top. The 'Payment - Credit Card' section is similar to version 01 but includes a 'Comments/ More Information' field and a 'Submit Order' button. Both sections include a note: 'Required Field' and 'Add me to your E-mailing List'.

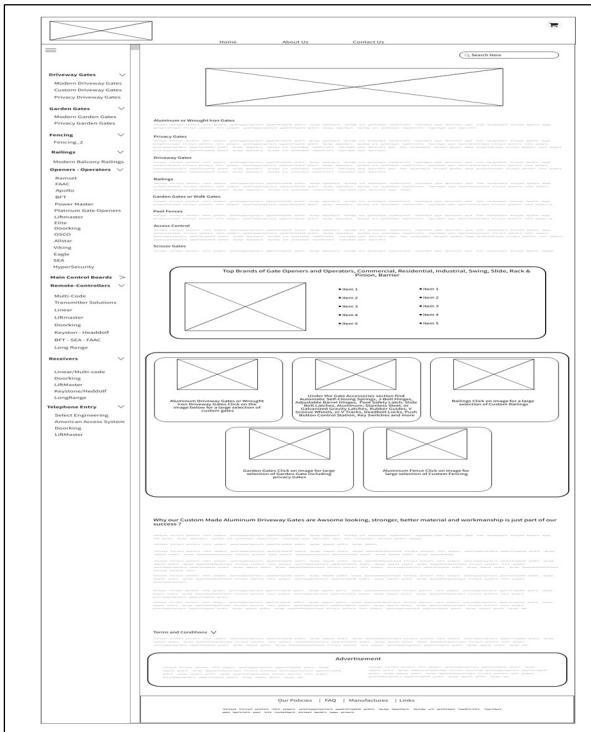
## V-track Guide V-wheel (version)

This screenshot shows the 'VTrack-Guide-VWheels' page for GATESNFENCES. It displays a grid of six product cards, each featuring a large X-shaped graphic and an 'Add To Cart' button with a '\$\$' price indicator. The sidebar on the left lists various product categories such as Driveway Gates, Garden Gates, Fencing, Railings, and Receivers, each with a dropdown arrow.

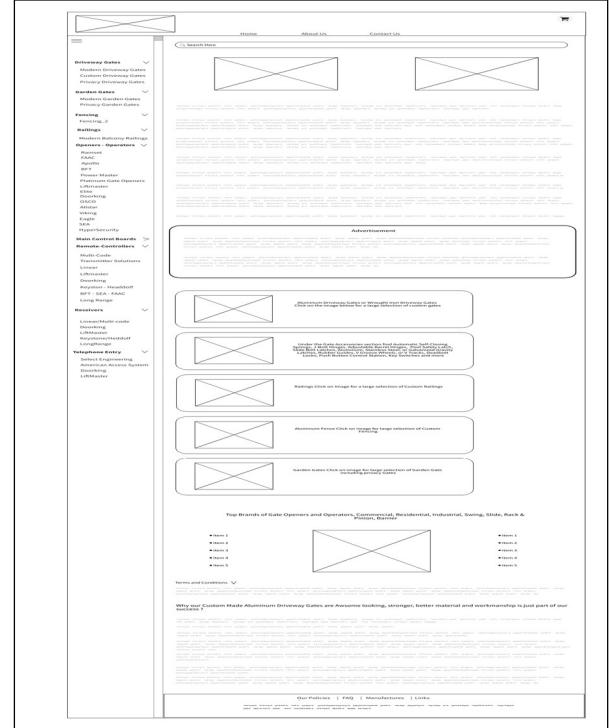
## V-track Guide V-wheel (version 02)

This screenshot shows the 'VTrack-Guide-VWheels' page for GATESNFENCES (version 02). It features a grid of twelve product cards, each with an 'Add To Cart' button and a '\$\$' price indicator. The layout is more compact than the previous version. The sidebar on the left is identical to the first version, listing categories like Driveway Gates, Garden Gates, Fencing, Railings, and Receivers.

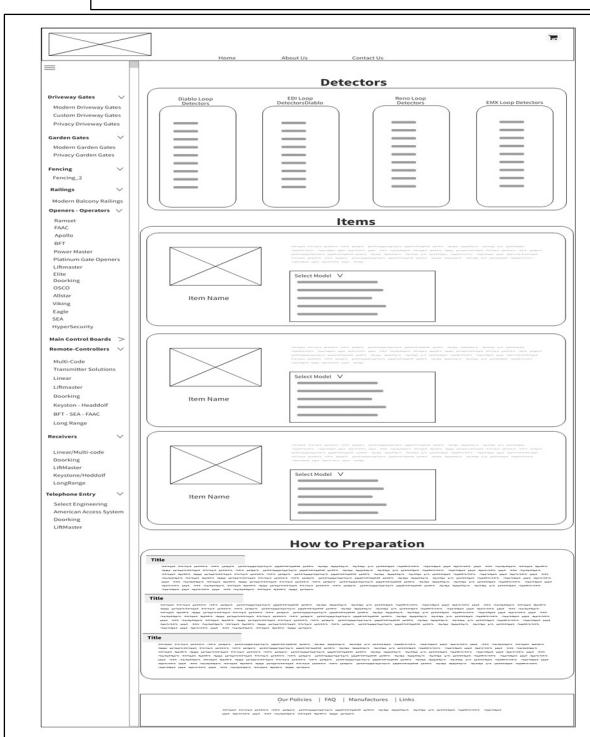
## Home Page (version 01)



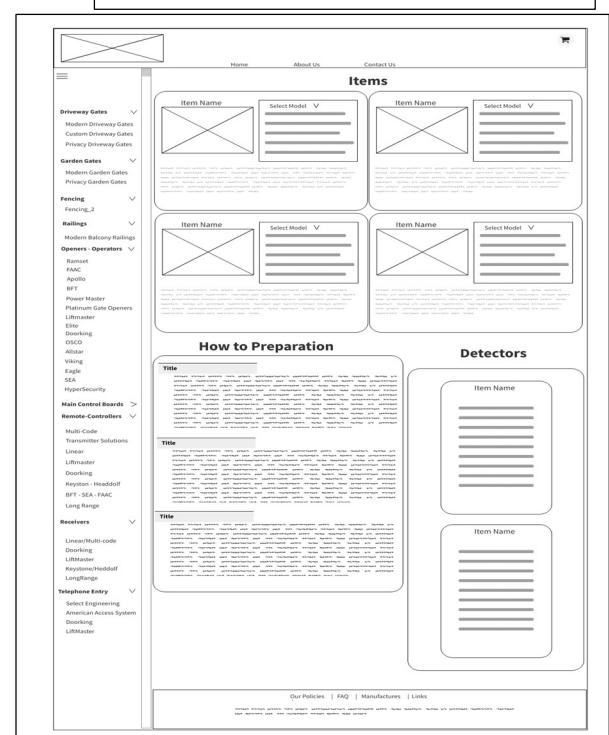
## Home Page (version 02)



## Safety Loops Page (version 01)



## Safety Loops Page (version 02)



## Cantilever Page (version 01)

This wireframe shows a sidebar navigation on the left with categories like Driveway Gates, Garden Gates, Fencing, Railings, Operators, Main Control Boards, Receivers, and Telephone Entry. The main content area on the right displays three identical product card templates, each featuring an image placeholder, a dropdown menu labeled "Select Model", and three "Add To Cart" buttons.

## Cantilever Page (version 02)

This wireframe shows a sidebar navigation on the left with categories like Driveway Gates, Garden Gates, Fencing, Railings, Operators, Main Control Boards, Receivers, and Telephone Entry. The main content area on the right displays two large product card templates, each featuring an image placeholder, a dropdown menu labeled "Select Model", and three "Add To Cart" buttons. The second card also includes a "Previous" and "Next" navigation arrow.

## References

Usability.gov

<https://www.usability.gov/what-and-why/user-interface-design.html>

Future Learn

<https://www.futurelearn.com/info/blog/introduction-to-ux-ui>