

**3M** **Science.**  
**Applied to Life.**

# Project Timeline

## Step1

주제 선정

2022.12.01 ~ 2022.12.02

## Step3

Sub Page 구현

2022.12.30 ~ 2023.01.04

## Step2

Main Page 구현

2022.12.05 ~ 2022.12.29

## Step4

오류 확인 및 수정 제출

2023.01.05

# Contents

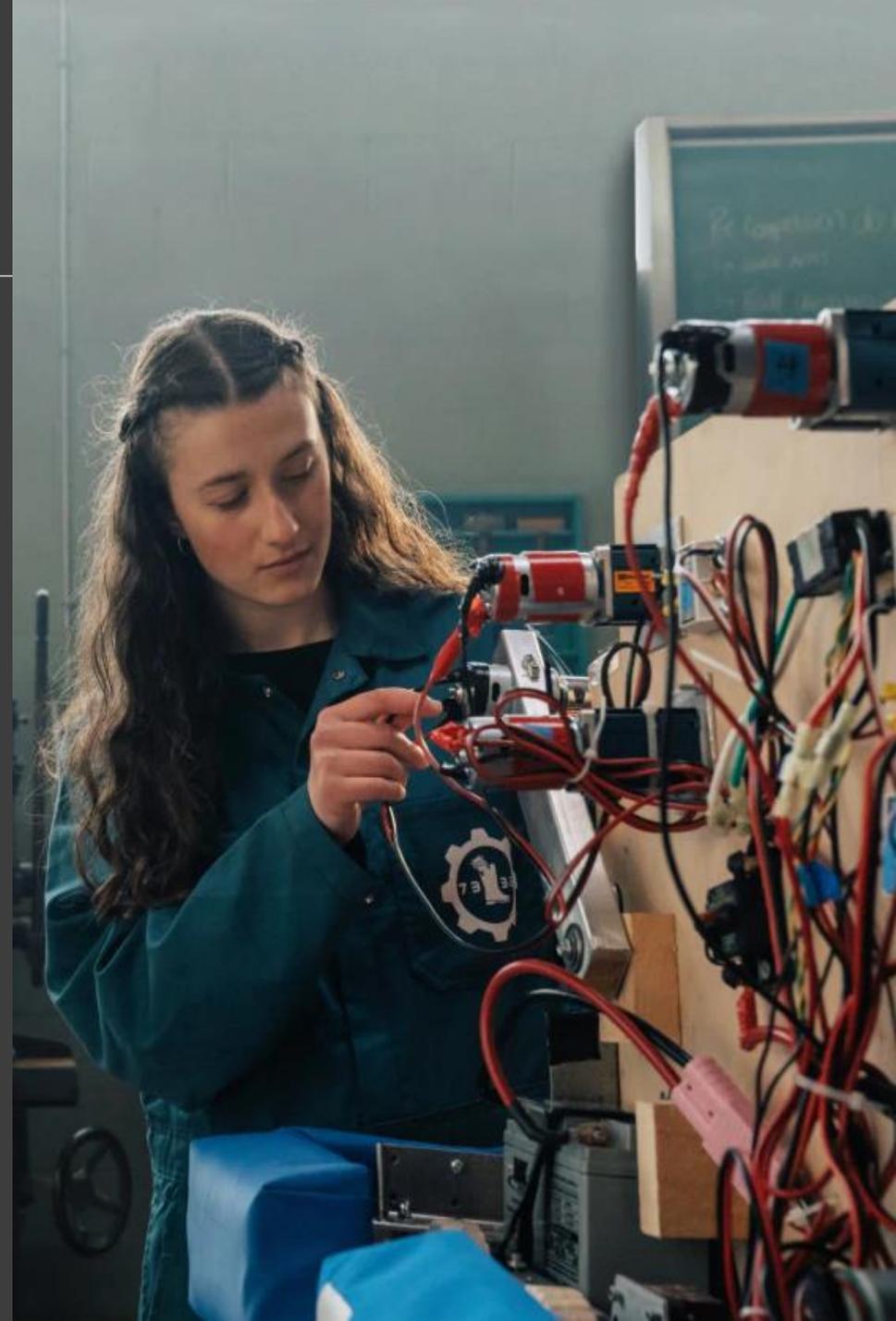
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**1** 주제 선정

**2** Persona

**3** Layout

**4** 평가 및 후기





Part 1,  
주제 선정

# 3M,

Minnesota Mining and Manufacturing Company(미네소타 광업 제조사)

미국의 다국적 제조 기업

3M은 1902년에 설립되어 100년 이상의 역사를 가진 회사이다.

3M에서는 매일 삶을 개선하기 위해 협력적인 방식으로 과학을 적용하고 있다.

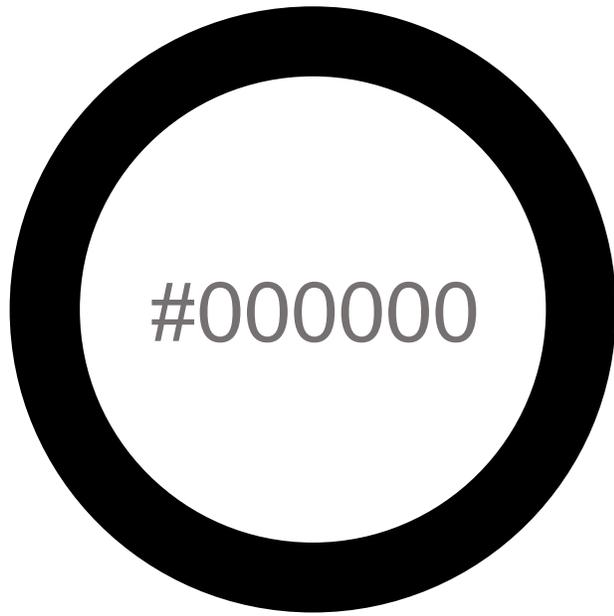


브랜드 소개,

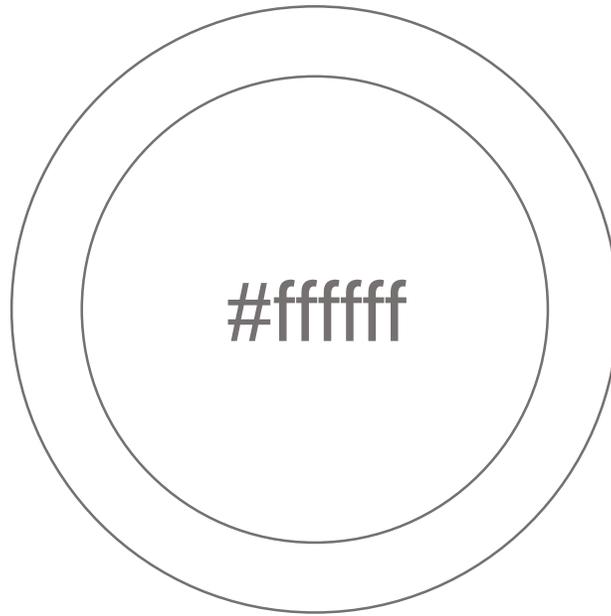
# 3M의 브랜드



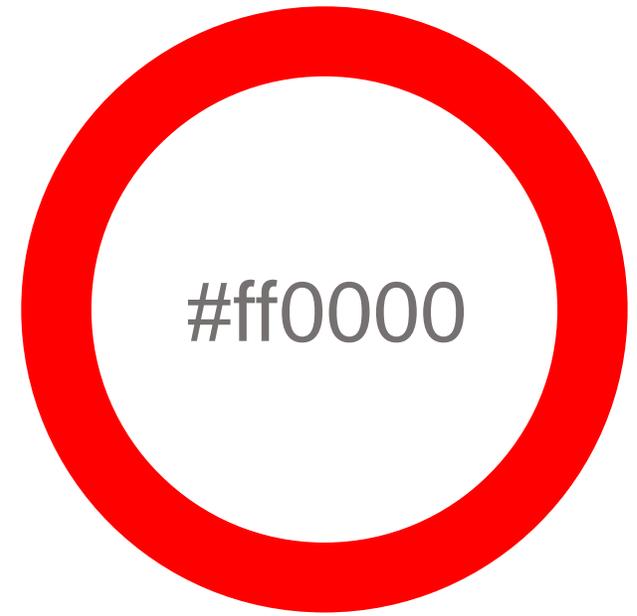
# Color Table



Basic Color



Background Color



Point Color



Part 2,  
Persona



이름

Melisa

직업

가정주부

캐릭터

평소에 꼼꼼하고, 신중한 성격이고, 주변이 깨끗한 걸 좋아함.

성격

꼼꼼함 / 차분함 / 신중함

라이프스타일

가정주부인 Melisa씨는 가정주부 생활로 인해 집안의 청결 상태에 대해 많이 신경 쓰게 되었다. 집안의 청결 상태에 신경 쓰게 되다 보니 효과적으로 집안을 정돈될 수 있게 해 주는 청소 도구, 수납 도구, 인테리어 제품에 관심을 갖게 되었다. 그리고 인테리어 미관을 해치지 않으면서 집안이 깔끔하게 정돈되어 보이게 해주는 제품에 관심이 많다.

바라는 점

“사람들이 많이 찾는 사이트인만큼 홈페이지 가독성이 편하도록 좀 더 예쁘고, 깔끔하게 잘 정돈됐으면 좋겠어.”




---

이름	Camila
직업	학생
캐릭터	평소에 외향적이고, 열정적인 성격이고, 꼼꼼하고, 예쁘게 정돈되어 있는 걸 좋아함.
성격	꼼꼼함 / 외향적 / 열정적
라이프스타일	학생인 Camila씨는 학교에서 배웠던 수업 내용들을 필기할 때 그내용이 있는 페이지 빈 공간에 필기했다. 페이지에 있는 빈 공간에 필기를 하다가 필기할 공간이 부족하거나 공부한내용이 잘 정돈되어 있지 않은 느낌을 들었다. 그래서 공부한내용이 시각적으로 꼼꼼하게 잘 정돈되어 보이는 필기구를 찾고 있다.
바라는 점	“내가 정리한 수업 내용이 나중에 보아도 효과적으로 잘 정돈되어 보이도록 필기 공간이 넉넉하고, 제품의 색깔이나 디자인이 예뻐지면 좋겠어.”

---



이름

David

직업

의사

캐릭터

평소에 차분하고, 신중한 성격이고, 항상 자기 일에 최선을 다함.

성격

열정적 / 차분함 / 신중함

라이프스타일

의사인 David씨는 항상 최선을 다해 환자들의 증상을 진단해내려고 한다. 하지만 요즘 병의 확장성이나 다양성이 늘어나고 있어 명확히 진단내릴 수 있는 증상도 가끔가다가 있다. 환자들에게 정확한 진단과 치료를 해주기 위해 기존의 의료기구보다 음향학적으로 퀄리티가 높고, 사용하기 편리한 의료 기구를 찾고 있다.

바라는 점

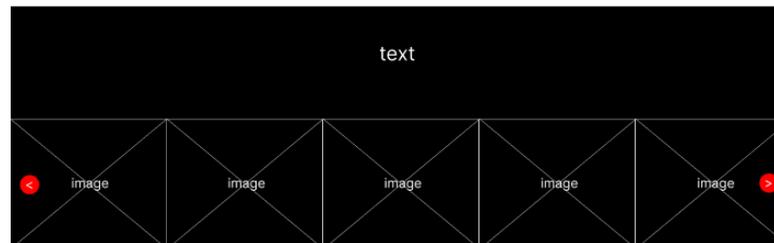
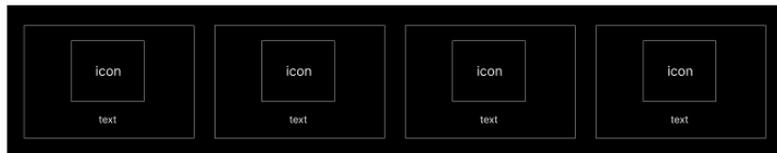
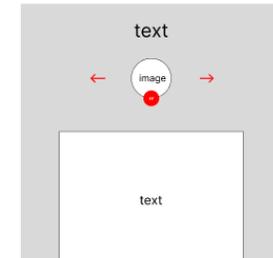
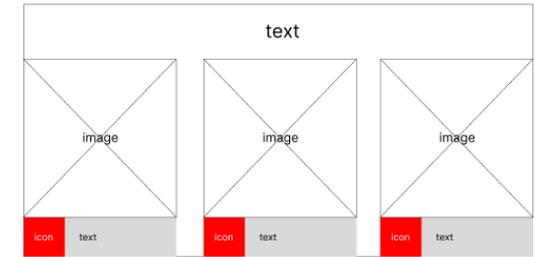
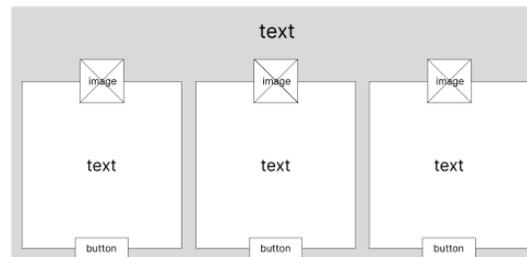
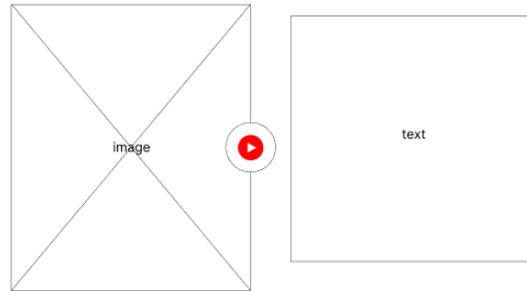
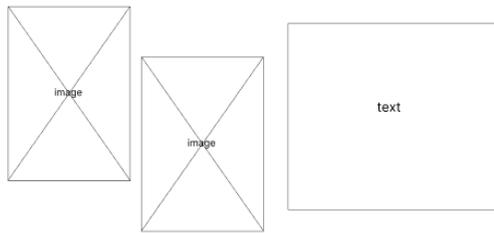
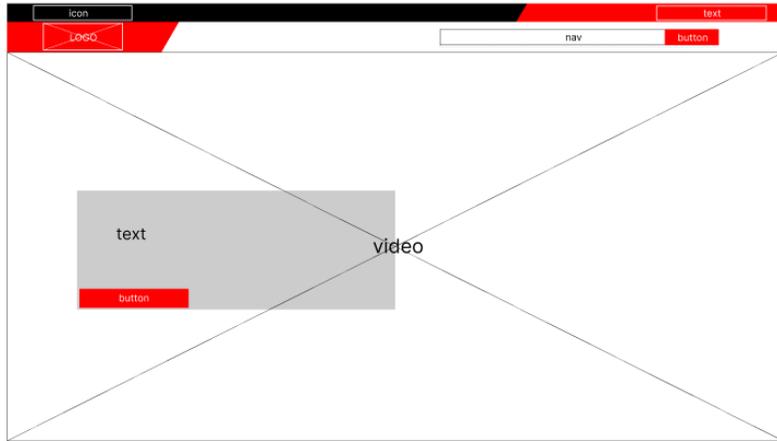
“내가 사용하는 제품이 환자들에게 정확한 진단과 치료를 할 수 있게끔 해주는 동시에 전문가들에게 검증을 받은 제품이었으면 좋겠어.”



Part 3,  
Layout

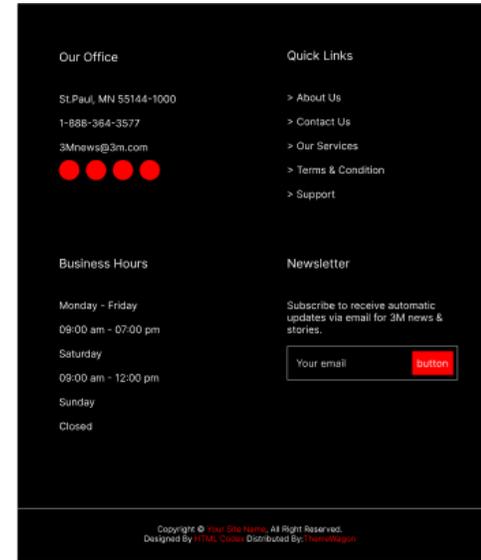
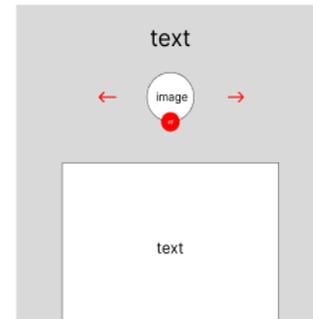
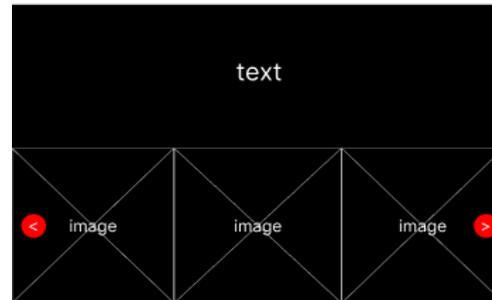
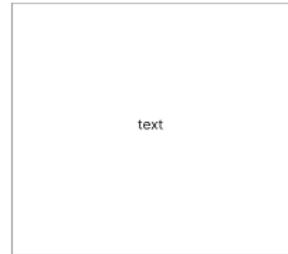
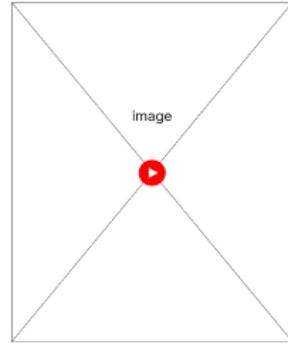
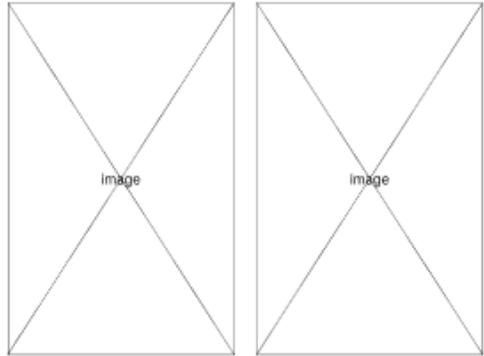
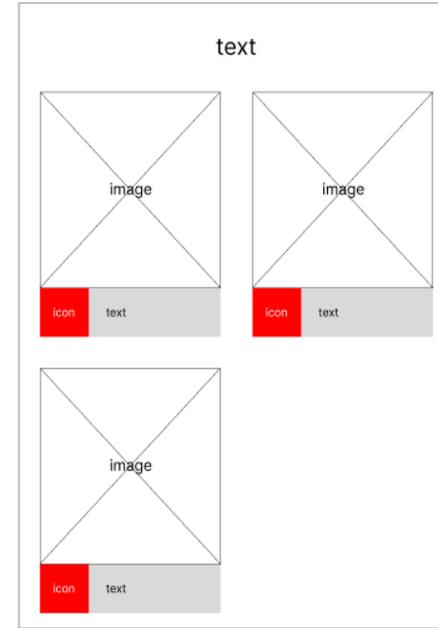
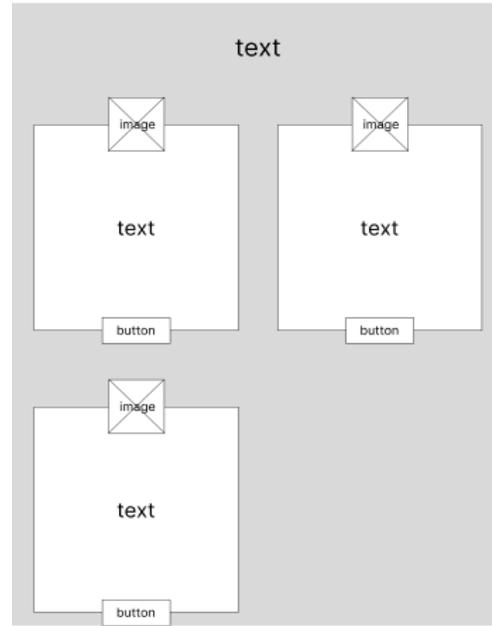
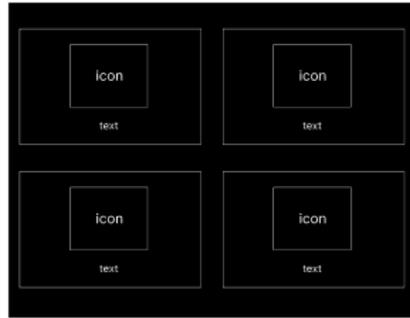
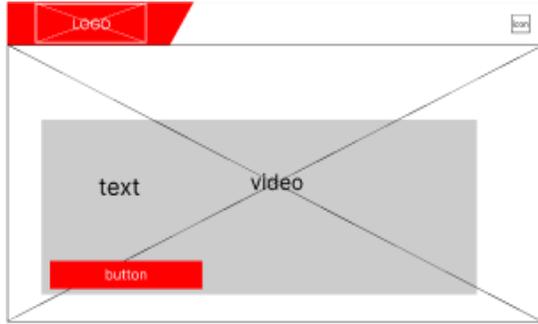
# Part 3, 와이어 프레임 (Main Page)

## Desktop



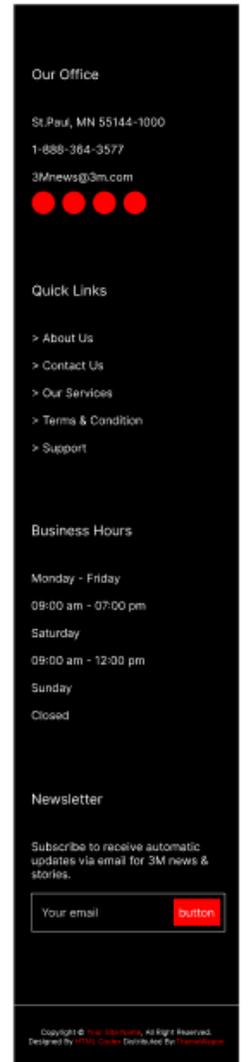
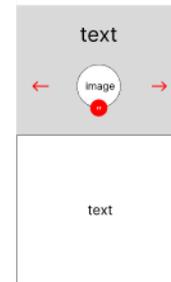
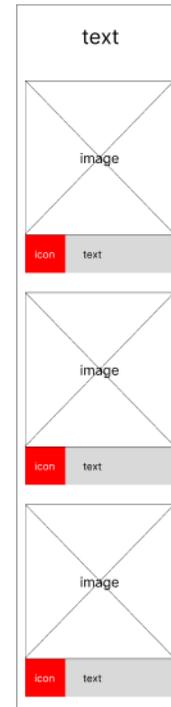
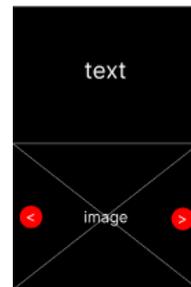
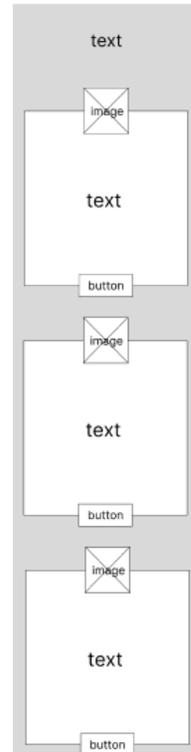
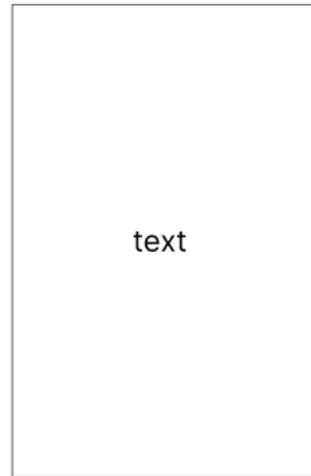
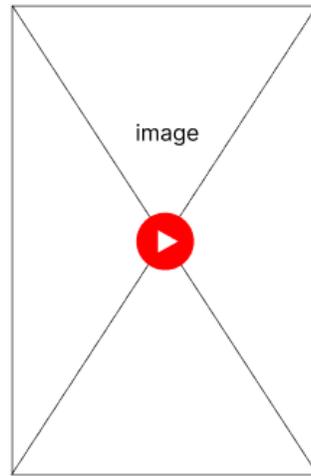
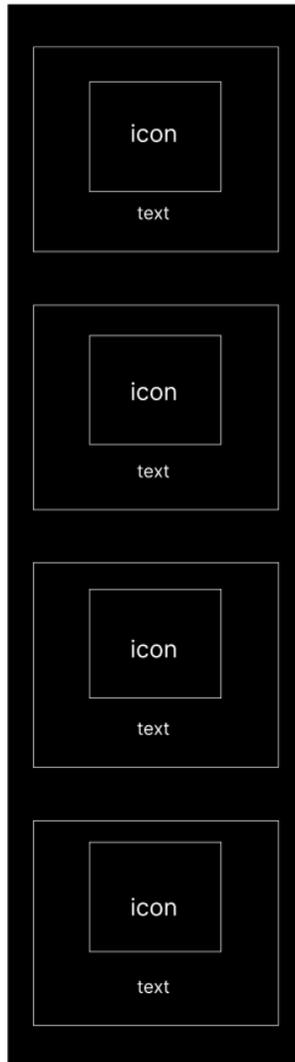
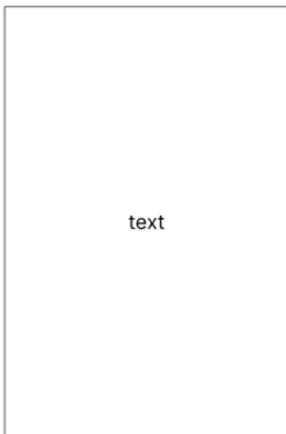
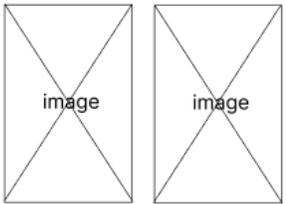
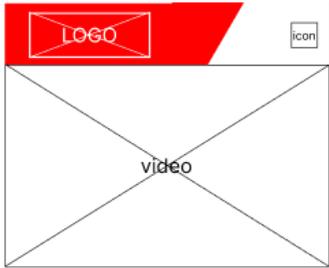
# 와이어 프레임 (Main Page)

## Pad



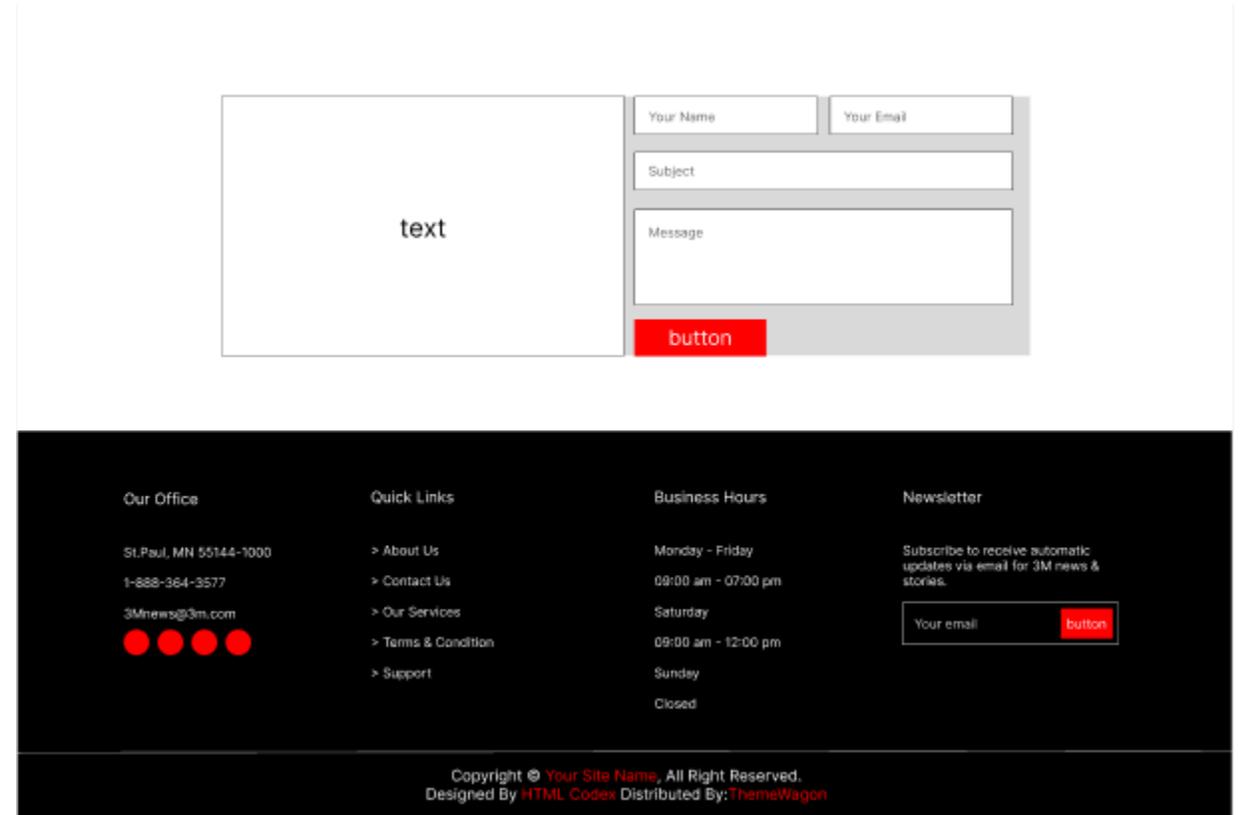
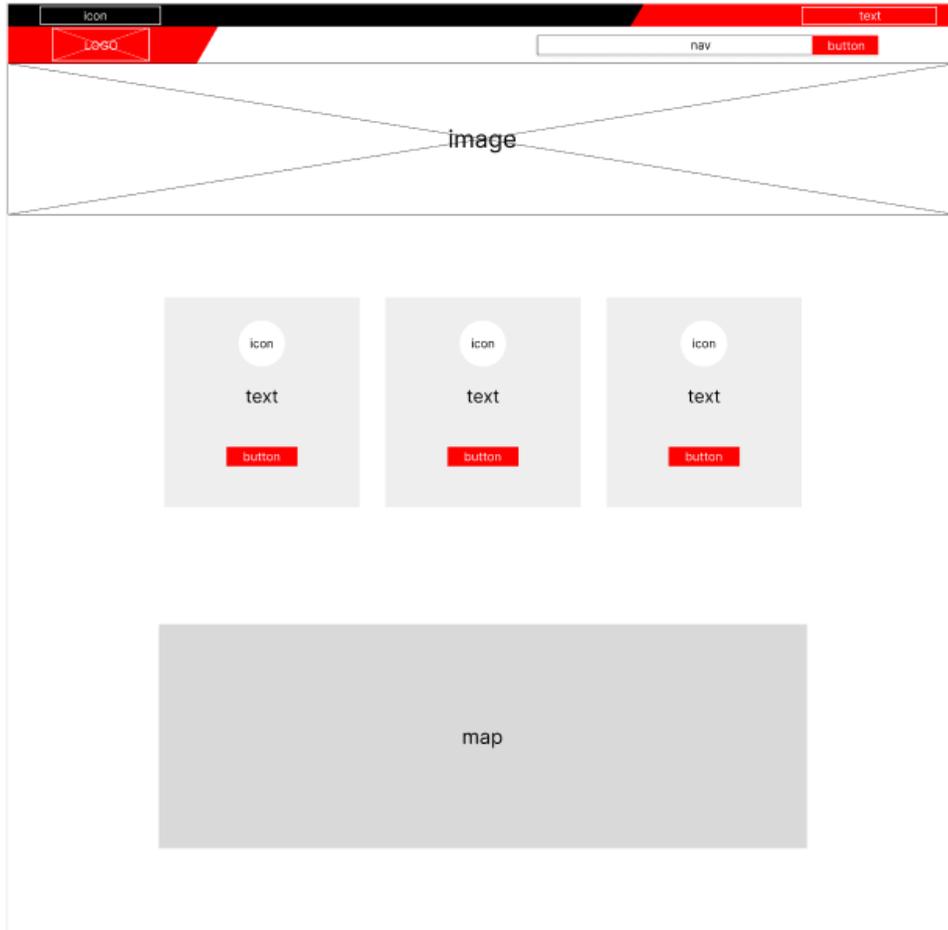
# 와이어 프레임 (Main Page)

## Phone



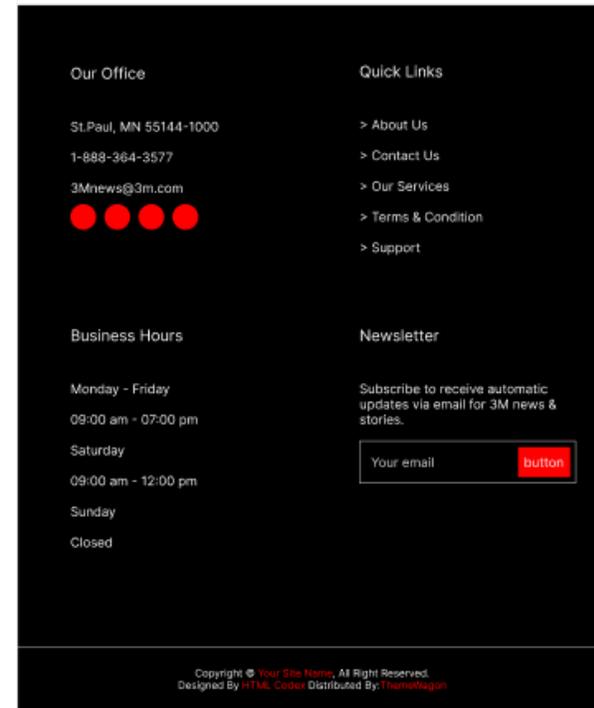
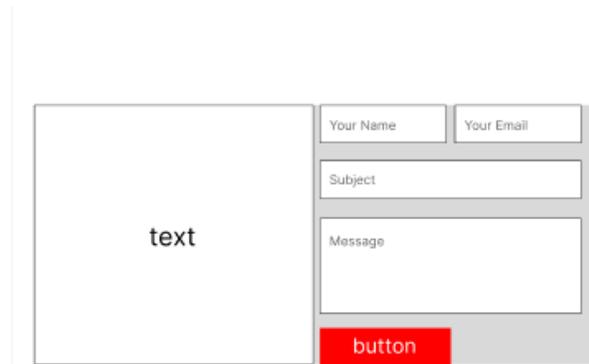
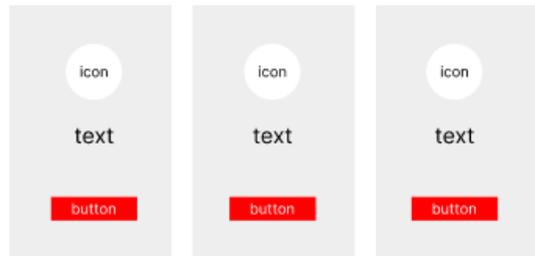
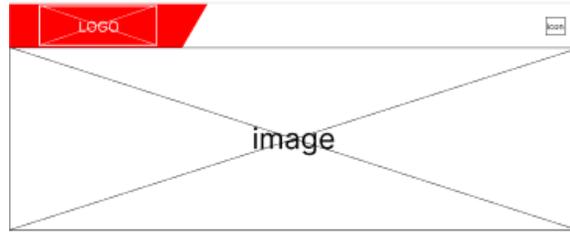
# 와이어 프레임 (Sub Page)

## Desktop



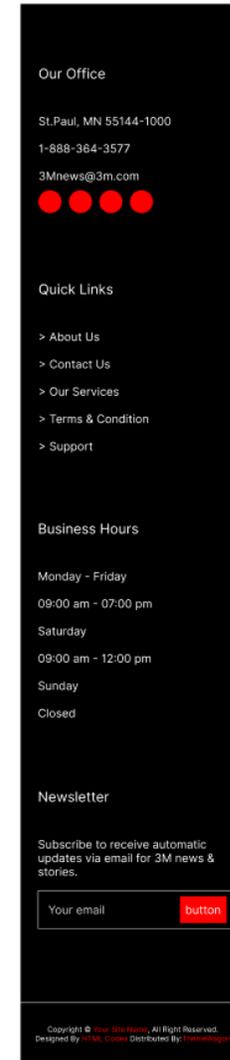
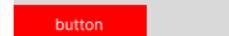
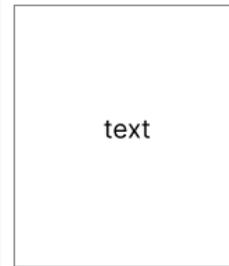
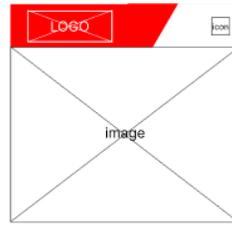
# 와이어 프레임 (Sub Page)

## Pad



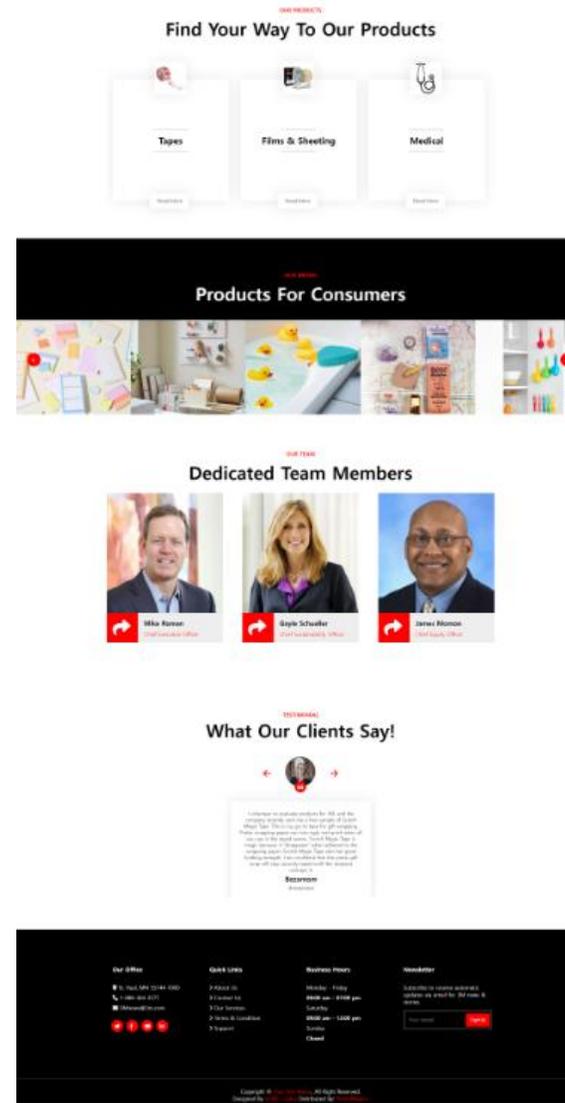
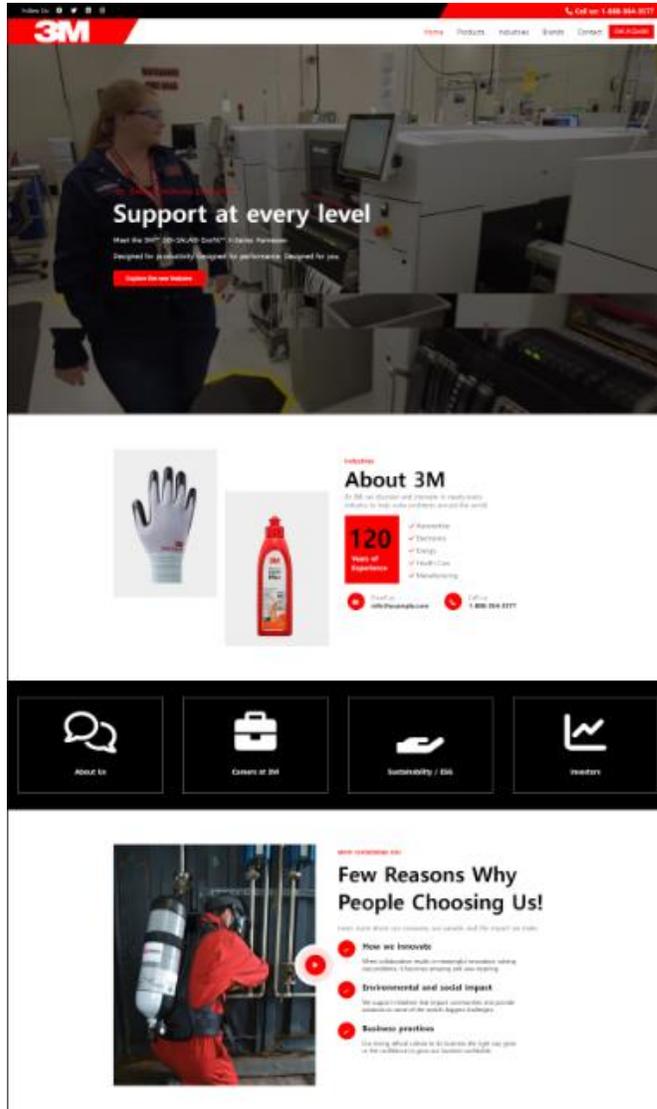
# 와이어 프레임 (Sub Page)

## Phone



# 프로토타입 (Main Page)

## Desktop



## Pad

**3M**

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- ✓ Health Care
- ✓ Manufacturing

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Careers at 3M



Sustainability / ESG



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**Few Reasons Why People Choosing Us!**

- How we innovate**  
We're continuously pushing the boundaries of innovation, solving real-world problems, and creating meaningful solutions.
- Environmental and social impact**  
We're committed to being a responsible and socially conscious organization.
- Business practices**  
We're committed to being a responsible and socially conscious organization.

**Find Your Way To Our Products**



Tapes



Films & Sheeting



Medical

### Products For Consumers



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Chief Executive Officer



**Gayle Schaefer**  
Chief Marketing Officer



**James Stanton**  
Chief Financial Officer

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"I've been an active partner for 3M for over 20 years. The innovation and quality of the products I use at my business have helped me grow and succeed. I highly recommend 3M to any business looking for reliable solutions."

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Email: [info@3m.com](mailto:info@3m.com)

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Saturday  
09:00 am - 12:00 pm  
Sunday  
Closed

**Newsletter**

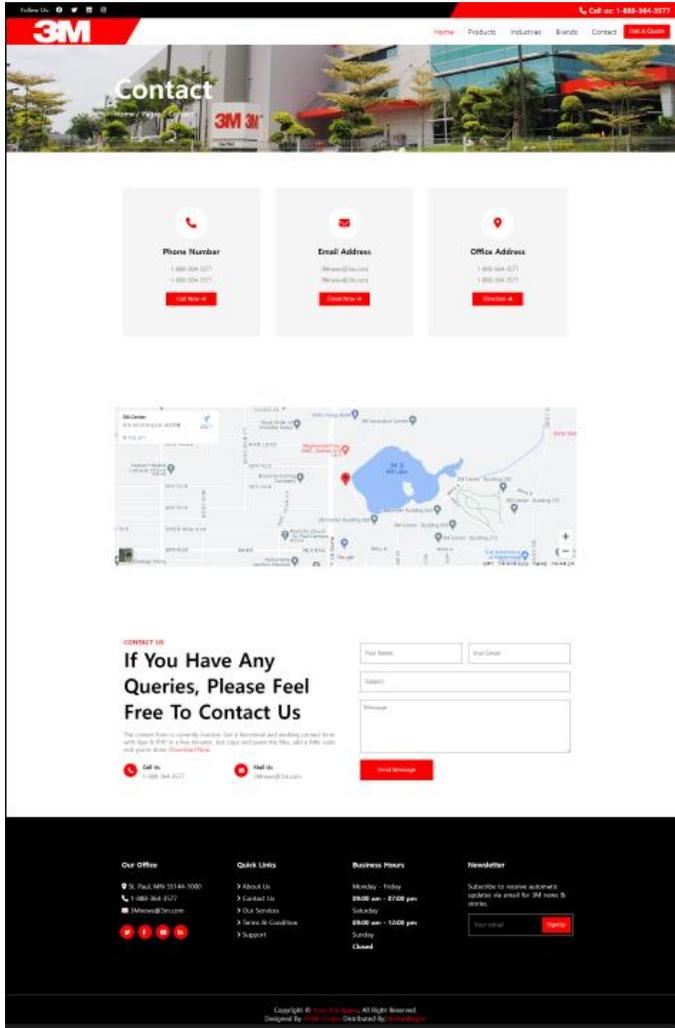
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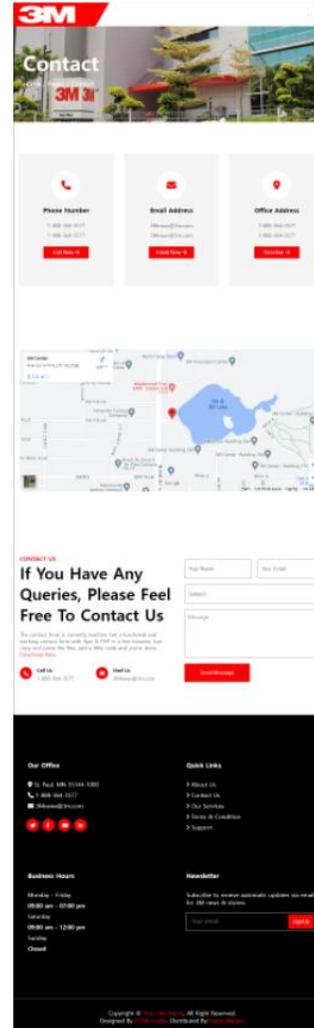


# 프로토 타입 (Sub Page)

Desktop



Pad



Phone



# 화면 구현 (Main Page)

## Main Page header(desktop) 구현

```
<div id="headertop">
  <div class="follow">
    <span>Follow Us:</span>
    <a href="#"><i class="fa-brands fa-facebook"></i></a>
    <a href="#"><i class="fa-brands fa-twitter"></i></a>
    <a href="#"><i class="fa-brands fa-linkedin"></i></a>
    <a href="#"><i class="fa-brands fa-instagram"></i></a>
  </div>
  <div class="call"></div>
  <p><i class="fa-solid fa-phone"></i> Call us: 1-888-364-3577</p>
</div>
```

```
#headertop{width: 100%; height: 46px; background: #000; margin: 0 auto; position: relative; overflow: hidden;}
.follow{width: 65%; height: 46px; float: left; padding: 10px 35px;}
.follow span{font-size: 17px; color: #fff; padding: 0 5px;}
.follow i{font-size: 17px; color: #fff; padding: 0 10px;}
.follow a i:hover{cursor: pointer;}
.call{width: 35%; height: 46px; background-color: #ff0000; float: right; transform: skewX(-30deg); margin-right: -20px;}
#headertop p{position: absolute; top: 0; right: 0; font-size: 20px; color: #fff; font-weight: bold; padding: 10px 40px;}
```

```
<div id="mainheader">
  <div class="logo"><a href="index.html"></a></div>
  <nav>
    <ul>
      <li><a href="index.html">Home</a></li>
      <li><a href="#">Products</a></li>
      <li><a href="#">Industries</a></li>
      <li><a href="#">Brands</a></li>
      <li><a href="sub.html">Contact</a></li>
    </ul>
    <button>Get A Quote</button>
  </nav>
</div>
```

```
#mainheader{width: 100%; height: 75px; background-color: #fff; margin: 0 auto;}
#mainheader .logo{width: 20%; height: 75px; background-color: #ff0000; float: left; transform: skewX(-30deg); margin-left: -25px;}
#mainheader img{width: 160px; height: 65px; transform: skewX(30deg); margin: 5px 100px 5px 100px;}
#mainheader nav{width: 80%; height: 75px; float: right; display: flex; justify-content: flex-end; align-items: center; padding-right: 40px;}
#mainheader nav ul{display: flex; flex-direction: row;}
#mainheader nav ul li{padding: 20px;}
#mainheader nav ul li a{font-size: 20px;}
#mainheader >nav>ul>li:first-child a{color: #ff0000;}
#mainheader nav ul li a:hover{color: #ff0000;}
#mainheader nav button{width: 130px; height: 40px; background-color: #ff0000; color: #fff; border: none; font-size: 18px;}
#mainheader nav button:hover{background-color: #000; cursor: pointer;}
```

&lt;html&gt;

&lt;CSS&gt;



Nav 문자에 hover 효과,  
첫번째 문자 Home은 빨간색으로 고정

Button에 hover 효과

# 화면 구현 (Main Page)

## Main Page header(pad, phone) 구현

```
<div id="small">
  <div class="logo"><a href="index.html"></a></div>
  <div class="a">
    <a href="index.html">Home</a>
    <a href="#">Products</a>
    <a href="#">Industries</a>
    <a href="#">Brands</a>
    <a href="sub.html">Contact</a>
  </div>
  <i class="fa-solid fa-bars"></i>
</div>
```

<html>

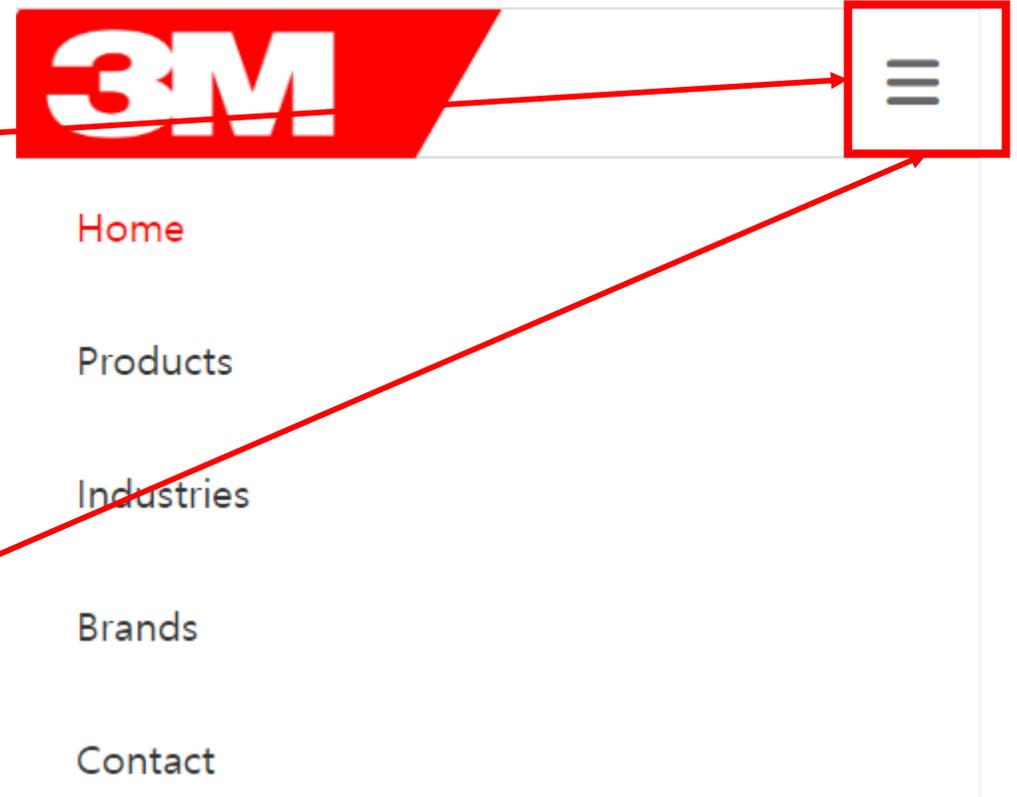
```
#small{width: 100%; height: 75px; display: flex; align-items: center; justify-content: space-between; border-bottom: 1px solid #lightgray;}
#small .logo{width: 50%; height: 75px; background-color: #ff0000; transform: skewX(-30deg); float: left; margin-left: -20px;}
#small img{width: 60%; height: 55px; transform: skewX(30deg); margin: 10px 35px;}
#small .a{position: absolute; top: 75px; left: 0; width: 100%; background-color: #fff; display: none; z-index: 5;}
#small .a a{display: block; padding: 20px 30px; font-size: 20px;}
#small .a a:first-child{color: #ff0000;}
#small .a a:hover{cursor: pointer; color: #ff0000;}
#small i{float: right; font-size: 30px; margin: 3px 20px; color: #666;}
#small i:hover{cursor: pointer;}
```

<CSS>

```
$(function () {
  $("#small i").click(function () {
    $("#small .a").slideToggle();
  });
});
```

<jQuery>

bar모양을 누르면  
nav이 slidetoggle 기능으로 나타나게 구현



# 화면 구현 (Main Page)

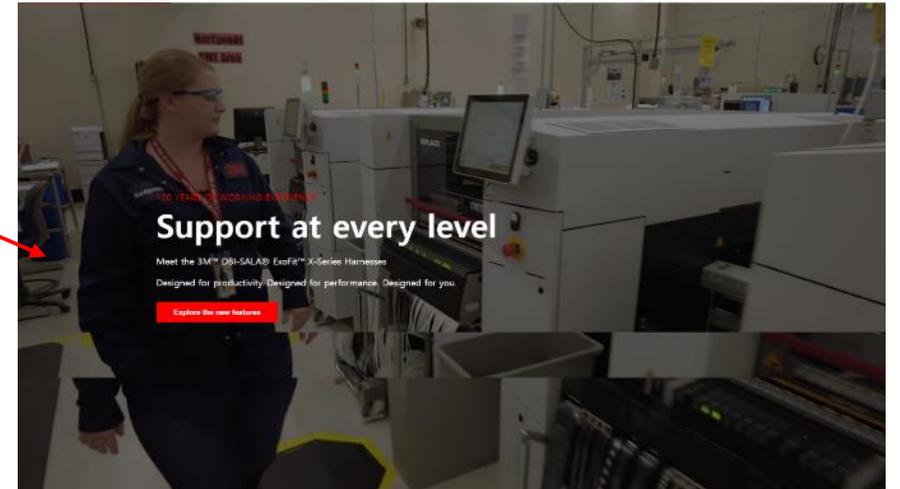
```

<div id="slider">
  <video src="video/Careersat3MNewUlm-FullVersion.mp4" loop muted autoplay></video>
  <div class="container">
    <span>120 YEARS OF WORKING EXPERIENCE</span>
    <h1>Support at every level</h1>
    <p>Meet the 3M™ DBI-SALA® ExoFit™ X-Series Harnesses</p>
    <p>Designed for productivity. Designed for performance. Designed for you.</p>
    <button>Explore the new features</button>
  </div>
</div>

```

<html>

Slider 에 video를 삽입해서 구현



```

#slider{width: 100%; height: auto; margin: 0 auto; position: relative;}
#slider::before{content: ''; width: 100%; height: 100%; position: absolute; top: 0; left: 0; background-color: rgba(0, 0, 0, 0.5);}
#slider video{width: 100%; min-height: 615px; top: 0; left: 0; margin: 0 auto;}
#slider .container{position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); height: 450px;}
#slider .container span{color: #ff0000; font-size: 20px;}
#slider .container h1{color: #fff; font-size: 70px; padding-bottom: 10px;}
#slider .container p{color: #fff; font-size: 20px; padding: 10px 0;}
#slider .container button{width: 265px; height: 45px; background-color: #ff0000; color: #fff; border: none; font-size: 16px; font-weight: bold; margin-top: 20px;}
#slider .container button:hover{background-color: #000; cursor: pointer;}

```

<CSS>

# 화면 구현 (Main Page)

```

<div class="container">
  <div class="box3">
    
    <div class="bottombox">
      <button><i class="fa-solid fa-play"></i></button>
    </div>
  </div>
  <div class="choosing">
    <p>WHY CHOOSING US!</p>
    <h1>Few Reasons Why People Choosing Us!</h1>
    <p>Learn more about our company, our people, and the impact we make.</p>
    <div class="why">
      <div class="reason">
        <div class="check">
          <i class="fa-solid fa-check"></i>
        </div>
        <h4>How we innovate</h4>
        <p>When collaboration results in meaningful innovation, solving real problems, it becomes amazing and awe-inspiring.</p>
      </div>
      <div class="reason">
        <div class="check">
          <i class="fa-solid fa-check"></i>
        </div>
        <h4>Environmental and social impact</h4>
        <p>We support initiatives that impact communities and provide solutions to some of the world's biggest challenges.</p>
      </div>
      <div class="reason">
        <div class="check">
          <i class="fa-solid fa-check"></i>
        </div>
        <h4>Business practices</h4>
        <p>Our strong ethical culture to do business the right way gives us the confidence to grow our business worldwide.</p>
      </div>
    </div>
  </div>
</div>

```

&lt;html&gt;



WHY CHOOSING US!

## Few Reasons Why People Choosing Us!

Learn more about our company, our people, and the impact we make.

### How we innovate

When collaboration results in meaningful innovation, solving real problems, it becomes amazing and awe-inspiring.

### Environmental and social impact

We support initiatives that impact communities and provide solutions to some of the world's biggest challenges.

### Business practices

Our strong ethical culture to do business the right way gives us the confidence to grow our business worldwide.

Button에 animation 효과 구현

```

#section .container .box3{width: 45%; height: 700px; float: left; position: relative;}
#section .container .box3 img{width: 100%; height: 700px;}
#section .container .box3 .bottombox{width: 120px; height: 120px; background-color: #fff; border: none; border-radius: 50%; position: absolute; right: -60px; top: 50%; transform: translateY(-50%);}
#section .container .box3 button{width: 60px; height: 60px; background-color: #ff0000; border: none; border-radius: 50%; position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);}
#section .container .box3 button::before{content: ''; position: absolute; background: #ff0000; width: 60px; height: 60px; top: 0; left: 0; border-radius: 50%; animation: wave 3s infinite linear;}
#section .container .box3 button::after{opacity: 0.4; animation: wave 3s 1.5s infinite linear;}
@keyframes wave{
  0%{
    transform:scale(1);
    opacity: 0.4;
  }
  100%{
    transform: scale(2);
    opacity: 0;
  }
}
#section .container .box3 button:hover{cursor: pointer;}
#section .container .box3 i{color: #fff; font-size: 20px; padding: 10px;}

#section .container .choosing{width: 50%; height: 700px; float: right;}
#section .container .choosing p:first-child{color: #ff0000; font-weight: bold; padding: 10px 0;}
#section .container .choosing h1{font-size: 60px;}
#section .container .choosing p{color: #666; font-size: 18px; padding: 25px 0;}
#section .container .reason{display: flex; flex-wrap: wrap;}
#section .container .reason .check{width: 50px; height: 50px; background-color: red; border: none; border-radius: 50%; padding: 17px; float: left;}
#section .container .reason .check i{color: #fff;}
#section .container .reason h4{font-size: 24px; width: 89%; padding: 0 20px;}
#section .container .reason p{width: 93%; padding: 0 70px; margin-bottom: 27px;}

```

&lt;CSS&gt;

# 화면 구현 (Main Page)

```

#section .ourbrand{width: 100%; height: auto; background-color: #000; padding: 100px 0 0 0;}
#section .ourbrand p{color: #ff0000; font-size: 18px; font-weight: bold; text-align: center; padding: 10px 0;}
#section .ourbrand h1{color: #fff; font-size: 60px; text-align: center;}
#section .ourbrand .brandwrap{width: 100%; height: 317px; margin: 50px 0 0 0; position: relative; overflow: hidden;}
#section .ourbrand .brand{width: 120vw;}
#section .ourbrand .brand li{width: 16.66%; height: 317px; position: relative; overflow: hidden; float: left;}
#section .ourbrand .brand li:hover{cursor: pointer;}
#section .ourbrand .brand li:hover .brandname{bottom: 0;}
#section .ourbrand .brand li img{width: 100%;}
#section .ourbrand .brandname{width: 100%; height: 80px; background-color: #000; position: absolute; bottom: -106px; transition: all 1s ease; padding: 15px;}
#section .ourbrand .brandname::before{content: ''; width: 100%; height: 30px; position: absolute; top: -13px; left: 0; transform: skewW(-4deg); background-color: #000;}
#section .ourbrand .brandname p{font-size: 24px;}
#section .ourbrand .brandwrap span{width: 45px; height: 45px; background-color: #ff0000; border-radius: 50%; position: absolute; top: 35%;}
#section .ourbrand .brandwrap span:hover{cursor: pointer; background-color: #000;}
#section .ourbrand .brandwrap span i{color: #fff; padding: 16px; font-size: 16px;}
#section .ourbrand .brandwrap span i{color: #fff; padding: 16px; font-size: 16px;}
#section .ourbrand .brandwrap span i{color: #fff; padding: 16px; font-size: 16px;}
#section .ourbrand .brandwrap span i{color: #fff; padding: 16px; font-size: 16px;}

```

<CSS>

```

$(function () {
  if (window.matchMedia("(min-width:1200px)").matches) {
    $('.before').click(function () {
      $('.brand li:last').prependTo('.brand');
      $('.brand').css('margin-left', '-20%');
      $('.brand').stop().animate({ marginLeft: 0 }, 800);
    });
    $('.after').click(function () {
      $('.brand').stop().animate({ marginLeft: '-20%' }, 800, function () {
        $('.brand li:first').appendTo('.brand');
        $('.brand').css({ marginLeft: 0 });
      });
    });
  } else if (window.matchMedia("(min-width:768px) and (max-width:1199px)").matches) {
    $('.before').click(function () {
      $('.brand li:last').prependTo('.brand');
      $('.brand').css('margin-left', '-33.33%');
      $('.brand').stop().animate({ marginLeft: 0 }, 800);
    });
    $('.after').click(function () {
      $('.brand').stop().animate({ marginLeft: '-33.33%' }, 800, function () {
        $('.brand li:first').appendTo('.brand');
        $('.brand').css({ marginLeft: 0 });
      });
    });
  } else {
    $('.before').click(function () {
      $('.brand li:last').prependTo('.brand');
      $('.brand').css('margin-left', '-100%');
      $('.brand').stop().animate({ marginLeft: 0 }, 800);
    });
    $('.after').click(function () {
      $('.brand').stop().animate({ marginLeft: '-100%' }, 800, function () {
        $('.brand li:first').appendTo('.brand');
        $('.brand').css({ marginLeft: 0 });
      });
    });
  }
});

```

<jQuery>

```

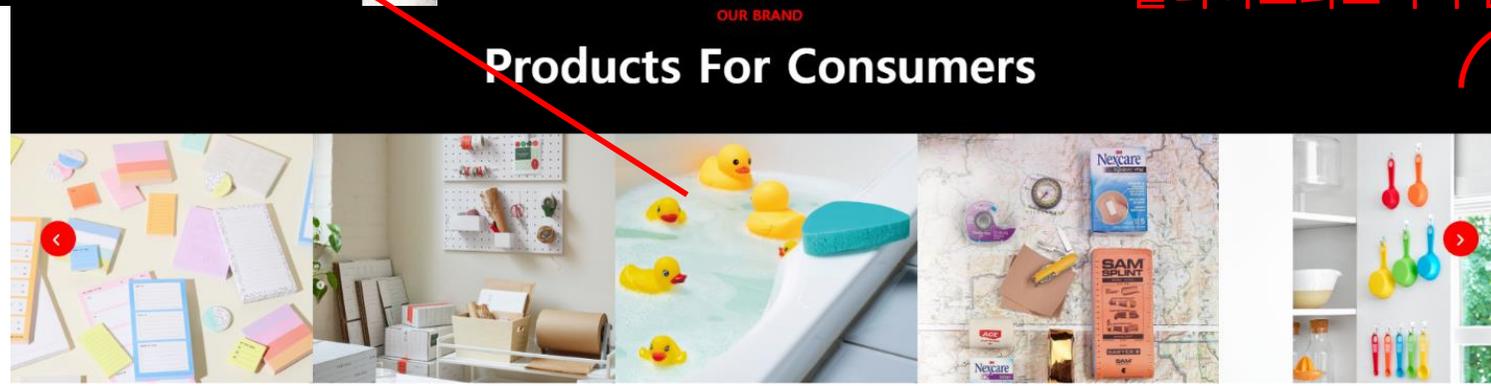
<div class="ourbrand">
  <p>OUR BRAND</p>
  <h1>Products For Consumers</h1>
  <div class="brandwrap">
    <ul class="brand">
      <li>
        
        <div class="brandname">
          <p>Post-it</p>
        </div>
      </li>
      <li>
        
        <div class="brandname">
          <p>Scotch</p>
        </div>
      </li>
      <li>
        
        <div class="brandname">
          <p>ScotchBrite</p>
        </div>
      </li>
      <li>
        
        <div class="brandname">
          <p>Nexcare</p>
        </div>
      </li>
      <li>
        
        <div class="brandname">
          <p>Command</p>
        </div>
      </li>
      <li>
        
        <div class="brandname">
          <p>Littmann</p>
        </div>
      </li>
    </ul>
    <span class="before"><i class="fa-solid fa-chevron-left"></i></span>
    <span class="after"><i class="fa-solid fa-chevron-right"></i></span>
  </div>
</div>

```

<html>



사진 위에 마우스 커서를 올려두면 텍스트가 나타나도록 코드를 구현



사진이 1 칸 만큼 슬라이드되도록 구현

## Products For Consumers

# 화면 구현 (Sub Page)

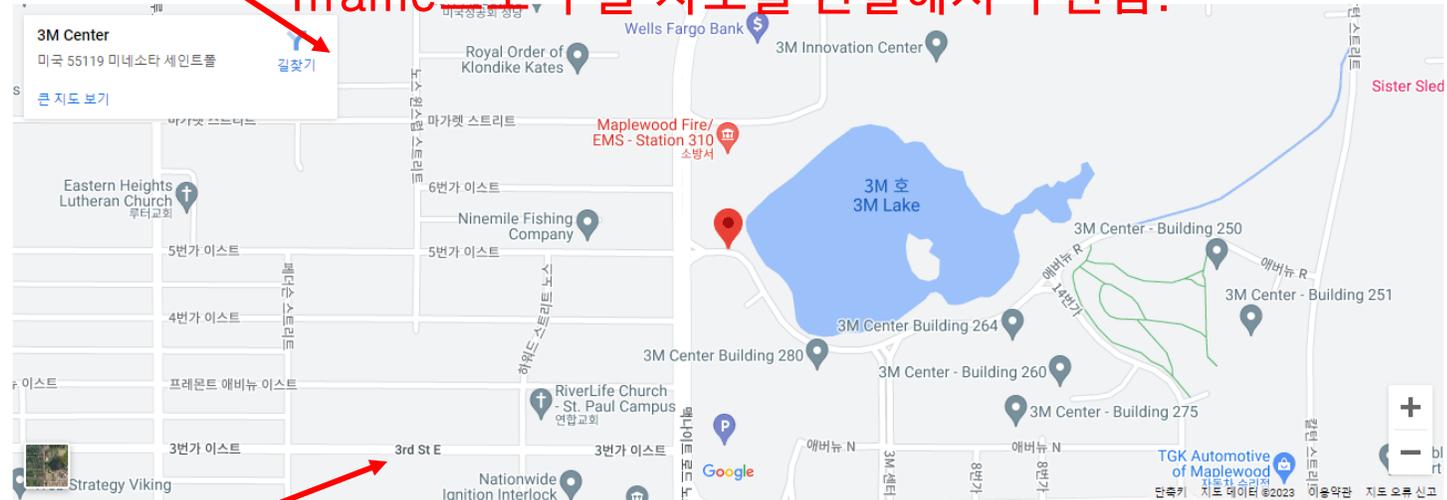
```

<div class="container">
  <div class="box3">
    <iframe
      src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d2823.2232103501765!2d-93.00624758419234!3d44.959456975000556!
      width="600" height="450" style="border:0;" allowfullscreen="" loading="lazy"
      referrerpolicy="no-referrer-when-downgrade"></iframe>
    </div>
  </div>
</div>

```

<html>

Iframe으로 구글 지도를 연결해서 구현함.



```

#subwrap .container .box3{width: 1296px; height: 450px; margin: 0 auto;}
#subwrap .container .box3 iframe{width: 100%;}

```

<CSS>

Part 4,  
평가 및 후기

Check length

run-on

Sentence

# 평가 및 후기

이번 프로젝트에서는 반응형 페이지 작업을 처음으로 적용시켜봤는데, 예상보다 시간이 많이 소요되어 좀 힘들었습니다.

그리고 저번 프로젝트보다 이번 프로젝트에서는 들어가는 기능도 더 많아져서 결과물은 더 만족스러웠지만 그만큼 작업 시간이 많이 걸린 것 같습니다.

그리고 제가 예상치 못한 곳에서 오류가 나타나서 작업하면서 좀 당황스러울 때도 있었습니다.

특히 반응형을 적용하면서 페이지 사이즈가 바뀌면 사진의 비율이 이상하게 되는 것과 코드 구현을 좀 헛갈리게 했던 점이 저를 애먹게 했던 것 같습니다.

오류가 나타났던 점은 다 개선했지만 다음 프로젝트에서는 이런 오류들을 줄여 나갔으면 좋겠습니다.

그래도 결과물을 다 완성하고 나서는 뿌듯했던 것 같습니다.

A rectangular piece of brown, textured paper with a torn top edge. The word "Thanks." is printed in a bold, black, sans-serif font in the center of the paper. The paper is set against a plain white background.

**Thanks.**