



# OPEN API 활용 온라인 서점 사이트

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# 주제 선정

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- 웹사이트 선정

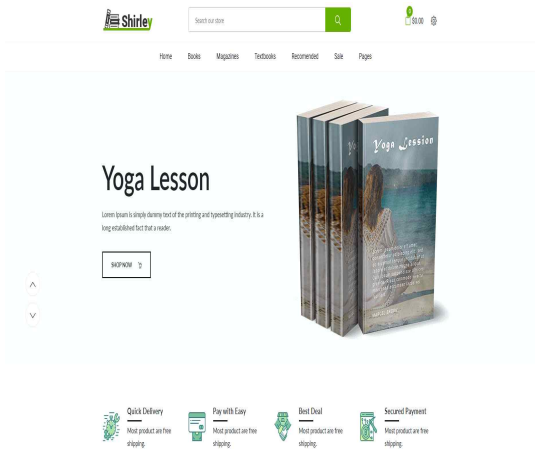


# 주제 선정

## 1. 웹사이트 선정

### shirely (기타 템플릿)

- 깔끔한 홈페이지로 판단되어 선정
- 홈페이지 내 다양한 형식의 슬라이드 존재



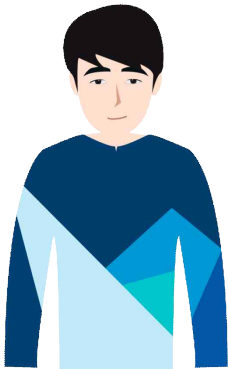
02

# 기획

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- 페르소나
- 프로토타입





### 이준호 (남 / 30세)

#### 목표

- 비즈니스 / 기술 / 리더십 관련 책을 효율적으로 찾고 빠르게 읽고 싶음

#### 니즈

- API를 통한 카테고리 기반 도서 분류 및 키워드 필터링
- 연관 추천 기능 (예: 이 책을 본 사람들이 함께 본 책)

#### 행동 패턴

- 책 제목 또는 저자 이름으로 직접 검색
- 실시간 재고 확인 및 배송 예상 시간 중요



### 김서연 (여 / 29세)

#### 목표

- 트렌디한 책과 새로운 작가를 빠르게 탐색하고 싶음
- 구매 전 미리보기, 요약, 관련 도서 추천 등을 자주 활용함

#### 니즈

- 빠른 검색과 정확한 필터링 기능 (예: 장르, 평점, 신간순)
- 책 소개 외에도 블로그/서평/별점 연동된 콘텐츠 원함

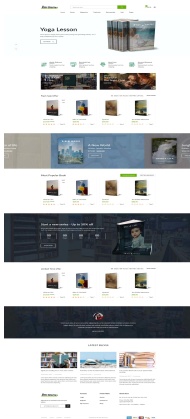
#### 행동 패턴

- “베스트셀러” 보다는 “큐레이션 리스트”나 “테마별 추천” 선호
- 도서 가격 비교 및 전자책/종이책 선택 유동적

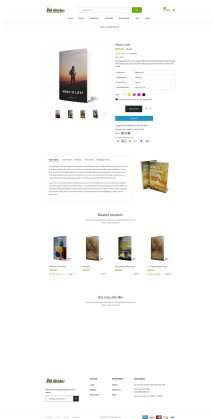
# 기획

## 2. 프로토타입

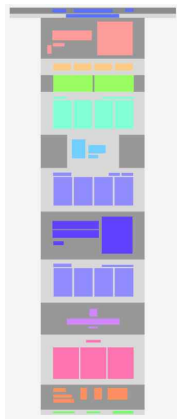
### 프로토타입 (메인 페이지)



### 프로토타입 (서브 페이지)



### 와이어프레임 (메인 페이지)





03

# 구현

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- 메인구현
- 서브구현

# 구현

## 1. 메인 구현

### 슬라이드\_1

- 버튼 클릭으로 화면전환 가능
- 마우스 드래그로 화면전환 가능

#### Yoga Lesson

Learn how to do all sorts of yoga, concentrate on finding self, and the eternal  
transformation of the self and the eternal transformation of the self.

SHOP NOW



#### Yoga Lesson

Learn how to do all sorts of yoga, concentrate on finding self, and the eternal  
transformation of the self and the eternal transformation of the self.

SHOP NOW



## CSS

```
/* slider */
.swiper mySwiper{position: relative;}
#slider {width: 100%; height: 600px; background-color: #F4F8FB; margin-top: 21px;}
.slide1 {display: flex; justify-content: center; align-items: center;}
.txtContainer {width: 600px; height: 100%; text-align: left; display: flex; align-items: center;}
.ani_txt_box {width: 100%; height: 300px; display: flex; flex-wrap: wrap; align-content: space-around;}
.ani_img_box {width: 600px; height: 100%;}
.shopButton {width: 155px; height: 50px; background: none; color: black;}
.shopButton:hover {background-color: #62ab00; color: white; transition: all 0.5s; border: none; cursor: pointer;}
.slide_button {position: absolute; left: 5%; top: 70%; width: 50px; height: 90px; z-index: 1;}
#buttonRight {width: 45px; height: 45px; background-color: white; border-radius: 50%; border: 1px solid gray;
display: flex; align-items: center; justify-content: center; font-size: 20px;}
#buttonRight:hover {background-color: #62ab00; cursor: pointer;}
#buttonLeft {width: 45px; height: 45px; background-color: white; border-radius: 50%; border: 1px solid gray;
display: flex; align-items: center; justify-content: center; font-size: 20px; margin-top: 10px;}
#buttonLeft:hover {background-color: #62ab00; cursor: pointer;}
```

## JS

```
//slider1
const swiper = new Swiper(".mySwiper", {
  slidesPerView: 1,
  spaceBetween: 30,
  loop: true,
  navigation: {
    nextEl: "#buttonRight",
    prevEl: "#buttonLeft",
  },
});
```

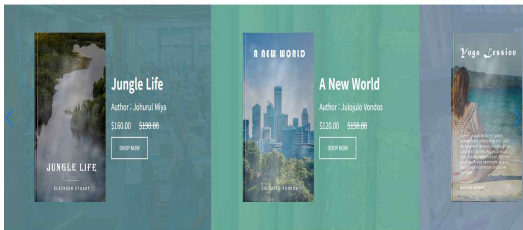
마이스와이프 사용 (스와이프 기본설정 내 버튼 수정을 위한 버튼관련 내용 수정)

# 구현

## 1. 메인구현

### 슬라이드\_2

- 화면에 슬라이드 내용 3개 표현
- 마우스 드래그 / 버튼 클릭으로 화면전환 동일



## CSS

```
/* slider2 */
#slider2 {width: 100%; height: 510px; background-color: #F4F8FB; margin-top: 21px;}
.S_S_box {width: 635px; height: 510px; position: relative;}
.S_S_container1 {width: 100%; height: 100%; position: absolute; left: 0; top: 0; background-color: rgba(124, 149, 170, 0.9)}
.S_S_container2 {width: 100%; height: 100%; position: absolute; left: 0; top: 0; background-color: rgba(120, 121, 125, 0.9)}
.S_S_container3 {width: 100%; height: 100%; position: absolute; left: 0; top: 0; background-color: rgba(86, 131, 139, 0.9)}
.S_S_container4 {width: 100%; height: 100%; position: absolute; left: 0; top: 0; background-color: rgba(103, 175, 157, 0.9)}
.S_S_C_text {width: 250px; height: 370px; color: white; display: flex; flex-wrap: wrap; margin-left: 20px; padding: 80px 0;}
.S_S_C_text h2 {font-size: 35px;}
.S_S_C_text p {font: 20px bold;}
.S_S_C_text p:nth-of-type(3) {margin-left: 30px; text-decoration: line-through;}
.shopButton2 {width: 135px; height: 50px; color: white; background: none; border: 2px solid white;}
.shopButton2:hover {background-color: #62ab00; color: white; transition: all 0.5s; border: none; cursor: pointer;}
```

## JS

```
//slider2
const swiper2 = new Swiper(".mySwiper2", {
  slidesPerView: 2.5,
  centerSlides: true,
  spaceBetween: 0,
  loop: true,
  navigation: {
    nextEl: ".swiper-button-next",
    prevEl: ".swiper-button-prev",
  },
});
```

마이스와이프 사용 (화면에 여러개 슬라이드 표현을 위한 slidesPerView 2.5변경)

# 구현

## 1. 메인 구현

### API + 슬라이드

- API 와 슬라이드 동시 구현
- 마우스 드래그 / 버튼 클릭으로 화면전환 동일

#### Flash Sale Offer

VIEW MORE



#### A Game of ...

For the first time, all five novels in the epic fa...

67950 40880



#### Game of Th...

text that relays the rich history of the Seven Kin...

102010 65520



#### Game of Th...

the dead gather. Covering all eight seasons of ...

60000 48000



#### A Game of ...

For the first time, all five novels in the epic fa...

154860 46800

## CSS

```
/* booklist */
.booklist {width: 1200px; height: 570px;}
.booklist_title {width: 1200px; height: 45px; display: flex; justify-content: space-between; align-items: center; margin-top: 40px;}
.booklist_box {width: 1200px; height: 480px; display: flex; justify-content: space-around; align-items: center;}
.booklist_book_box {width: 270px; height: 420px; border: 1px solid #d3d3d3; padding: 0 15px;}
.booklist_book_box img {width: 160px; height: 220px; border-radius: 5px; box-shadow: 2px 1px 10px #ccc; margin: 10px 40px 20px;}
.booklist_book_box p {margin-top: 10px;}
.booklist_book_box h4 {font-size: 20px; color: black; float: left; margin-top: 10px;}
.booklist_book_box h4:nth-of-type(2) {font-size: 20px; color: #62ab00; text-decoration: none; margin-left: 30px;}
.booklist_book_box h3 {font-size: 20px; color: black; text-decoration: line-through; float: left; margin-top: 10px;}
.booklist_book_box h3:nth-of-type(2) {text-decoration: none; color: #62ab00; margin-left: 20px;}
.clearfix:after {clear: both;}

.booklist_slide {width: 1200px; height: 525px; position: relative;}
#buttonLeft3 {opacity: 0; width: 40px; height: 40px; background-color: white; border: 1px solid #444444; border-radius: 50%; position: absolute; z-index: 2; top: 200px; left: -15px; cursor: pointer;}
#buttonRight3 {width: 40px; height: 40px; background-color: white; border: 1px solid #444444; border-radius: 50%; position: absolute; z-index: 2; top: 200px; right: -15px; cursor: pointer; opacity: 0;}
.booklist_slide:hover #buttonLeft3, .booklist_slide:hover #buttonRight3 {opacity: 1; transition: all 0.7s;}
```

## JS

```
//booklist slide
const swiper5 = new Swiper(".mySwiper5", {
  slidesPerView: 4,
  spaceBetween: 10,
  loop: true,
  navigation: {
    nextEl: "#buttonRight3",
    prevEl: "#buttonLeft3",
  },
});
```

마이스와이프 사용 (화면에 여러개 슬라이드 표현을 위한 slidesPerView 4번정)

# 구현

## 1. 메인 구현

### API + 탭 전환

- API 와 탭 전환 구현

#### Most Popular Book



**Jane Auste...**  
Jane Austen was a clergyman's daughter, related to...  
Collins Irene



**Jane Auste...**  
Jane Austen's popularity never seems to date. Here...  
Reef Catherine



**Jane Auste...**  
Carol Shields explores the life of a writer whose...  
Shields Carol

#### TOP RATED BOOKS

#### BEST SELLING BOOK



**Jane Auste...**  
Definitive, concise, and very interesting... From ...  
Butler Marilyn

#### Most Popular Book



**Sherlock: ...**  
Sherlock Manga - printed in English in the US for ...  
Moffat Steven



**Les aventu...**  
Tintin d'couvre un message secret dissimul? dans L...  
Steven Moffat



**Doctor Who...**  
Discover the new Doctor Who classics. When the ent...  
Steven Moffat

#### TOP RATED BOOKS

#### BEST SELLING BOOK



**Doctor Who...**  
Discover the new Doctor Who classics. When the ent...  
Steven Moffat, Wright Bethany

## CSS

```
/* Second bookList */
.color-button {font-size: 14px; background-color: lightgray; color: black; border: none; cursor: pointer;
  transition: 0.3s; display: inline-block; padding: 13px 10px;}
.color-button + .color-button {margin: 0 0 10px;}
.active {background-color: #62ab00; color: white;}
#tab-content > div {display: none;}
#tab-content > div:first-child {display: block;}
```

## JS

```
// 버튼리스트 버튼
const buttons1 = document.querySelectorAll('.color-button');
buttons1.forEach(button => {
  button.addEventListener('click', () => {
    // 모든 버튼에서 active 클래스 제거
    buttons1.forEach(btn => btn.classList.remove('active'));
    // 클릭한 버튼에 active 클래스 추가
    button.classList.add('active');
  });
});

// 버튼리스트 탭 전환
const tabMenu = document.querySelectorAll('.tab-menu button');
const tabContent = document.querySelectorAll('#tab-content > div');
tabMenu.forEach(function (item, idx) {
  item.addEventListener('click', function (e) {
    e.preventDefault();
    showContent(idx);
  });
});

function showContent(num) {
  tabContent.forEach(function (item) {
    item.style.display = 'none';
  });
  tabContent[num].style.display = 'block';
};
```

# 구현

## 1. 메인 구현

## API

- 여러 API를 한번에 작성하기 위해 for문 활용

## JS

```
//bookAPI.js
async function bookData() {
  const paramList = [
    new URLSearchParams({ query: "throne" }),
    new URLSearchParams({ query: "Jane Austen" }),
    new URLSearchParams({ query: "Steven Moffat" }),
    new URLSearchParams({ query: "The Lord of the Rings" }),
  ];

  const bookAPI_list = ['bookAPI1', 'bookAPI2', 'bookAPI3', 'bookAPI4'];

  for (let j = 0; j < 4; j++) {
    try {
      const response = await fetch(`https://dapi.kakao.com/v3/search/book?${paramList[j]}`, {
        method: 'GET',
        headers: {
          Authorization: "KakaoAK eef88ee31a0d49ba198c1e3a4ef08ad"
        }
      });
      if (!response.ok) {
        throw new Error("HTTP 오류: 상태 코드: " + response.status);
      }

      // 영어가 많이 있는 자료만 받아서 출력하기
      const jsonData = await response.json();
      const origin = jsonData.documents;
      function isMostlyEnglish(text, threshold = 0.7) {
        const englishChars = text.match(/[a-zA-Z]/g) || [];
        const totalChars = text.replace(/\s/g, '');
        return totalChars.length > 0 && (englishChars.length / totalChars.length) >= threshold;
      }

      const data = origin.filter((val) => {
        return val.contents && isMostlyEnglish(val.contents);
      });

      const boxElements = document.querySelectorAll(`.${bookAPI_list[j]}`);

      for (let i = 0; i < boxElements.length; i++) {
        const doc = data[i];
        const box = boxElements[i];

        // <img>
        const img = document.createElement("img");
        img.src = doc.thumbnail;
        box.appendChild(img);
      }
    }
  }
}
```

```
img.src = doc.thumbnail;
box.appendChild(img);

// <h2> 제목
const h3 = document.createElement("h2");
h3.textContent = doc.title.substring(0, 10) + '...';
box.appendChild(h3);

// <p> 내용 일부
const p = document.createElement("p");
p.textContent = doc.contents.substring(0, 50) + '...';
box.appendChild(p);

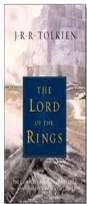
if(j--1|j--2){
  // <h4> 책 저자
  const authors = document.createElement("h4");
  authors.textContent = doc.authors;
  box.appendChild(authors);
}else if(j==3){
  // 별점
  const Star = document.createElement("p");
  const rating = Math.floor(Math.random() * 5) + 1;
  let FullStar = "★".repeat(rating);
  let EmptyStar = "☆".repeat(5-rating);
  Star.textContent = FullStar + EmptyStar;
  Star.style.color = "gold";
  Star.style.fontSize = "20px";
  box.appendChild(Star);
} else{
  // <h3> 책 가격
  const price = document.createElement("h3");
  price.textContent = doc.price;
  box.appendChild(price);
  // <h3> 판매 가격
  const sale_price = document.createElement("h3");
  sale_price.textContent = doc.sale_price;
  box.appendChild(sale_price);
}
} catch (error) {
  console.log('에러발생', error);
}
```

# 구현

## 1. 서브구현

### API + 슬라이드 + 탭전환(이미지)

- 슬라이드 내 책 썸네일 클릭시 설명 텍스트 변환



The Lord of the Rings (Anniversary)  
(Lord of the Rings) (50TH ed.)

₩43530

To find them, One Ring to bring them all and in the darkness bind them in ancient times the Rings of Power were crafted by the Elven-smiths, and Sauron, the Dark Lord, forged the One Ring, filling it with his own power so that he could rule all others. But

Book Name :	The Lord of the Rings (Anniversary) (L...
Author Name :	J.R.R. 톨킨
Item Publish Date :	2019-10-01



Buy it now

Categories : Best selling book, Top Rated Books

share :

Guaranteed safe checkout:



The Hobbit and the Lord of the  
Rings: Deluxe Pocket Boxed Set

₩86970

This four-volume, deluxe pocket boxed set contains J.R.R. Tolkien's epic masterworks The Hobbit and the three volumes of The Lord of the Rings: I The Fellowship of the Ring, The Two Towers, and The Return of the King. Each book features a leatherette cover with

Book Name :	The Hobbit and the Lord of the Rings, Se...
Author Name :	J.R.R. 톨킨
Item Publish Date :	2019-10-01



Buy it now

Categories : Best selling book, Top Rated Books

share :

Guaranteed safe checkout:



## JS(탭전환)

```
//서브 북리스트 버튼
const buttons2 = document.querySelectorAll('.sub-button');
buttons2.forEach(button => {
  button.addEventListener('click', () => {
    // 모든 버튼에서 active 클래스 제거
    buttons2.forEach(btn => btn.classList.remove('active2'));
    // 클릭한 버튼에 active 클래스 추가
    button.classList.add('active2');
  });
});

//서브 북리스트 탭전환
const tabMenu2 = document.querySelectorAll('.sub_booklist_box > button');
const tabContent2 = document.querySelectorAll('.sub_main_img > div');
const tabContent3 = document.querySelectorAll('.sub_main_text > div');
tabMenu2.forEach(function (item, idx) {
  item.addEventListener('click', function (e) {
    e.preventDefault();
    showContent2(idx);
  });
});
tabMenu3.forEach(function (item, idx) {
  item.addEventListener('click', function (e) {
    e.preventDefault();
    showContent2(idx);
  });
});
function showContent2(num) {
  tabContent2.forEach(function (item) {
    item.style.display = 'none';
  });
  tabContent3.forEach(function (item) {
    item.style.display = 'none';
  });
  tabContent2[num].style.display = 'block';
  tabContent3[num].style.display = 'block';
};
```

# 구현

## 1. 서브구현

### JS(API)

```
//SUB API
async function sub_main() {
  const params = new URLSearchParams({
    query: "the Lord the Rings"
  });

  try {
    const response = await fetch("https://dapi.kakao.com/v3/search/book?%7B%22params%22%3A%7B%22query%22%3A%22the%20Lord%20the%20Rings%22%7D%7D", {
      method: "GET",
      headers: {
        Authorization: "KakaoAK e8f08ee1a04f9ba196c16c3af0f330d"
      }
    });
    if (!response.ok) {
      throw new Error("HTTP 오류! 상태 코드: ${response.status}");
    }

    // 영어가 많이 있는 자료만 뽑아서 출력하기
    const jsonData = await response.json();
    const origis = jsonData.documents;
    function isMostlyEnglish(text, threshold = 0.7) {
      const englishChars = text.match(/[a-zA-Z]/g) || [];
      const totalChars = text.replace(/%s/g, '');
      return totalChars.length > 0 && (englishChars.length / totalChars.length) >= threshold;
    }

    const data = origis.filter(val => {
      return val.contents && isMostlyEnglish(val.contents);
    });

    // 이미지 API
    const $M_IMG = document.querySelectorAll('.sub_main_img div');
    const $M_SLIDER = document.querySelectorAll('.sub_booklist_box button');
    // 텍스트 API
    const $M_TEXT = document.querySelectorAll('.sub_main_text div');

    for (let i = 0; i < 5; i++) {
      const doc = data[i];
      const box1 = $M_IMG[i];
      const box2 = $M_SLIDER[i];
      const box3 = $M_TEXT[i];
    }
  }
}
```

```
// <main img>
const img1 = document.createElement("img");
img1.src = doc.thumbnail;
img1.style.width = "370px";
img1.classList.add("S_M_API_IMG");
box1.appendChild(img1);

// <slide img>
const img2 = document.createElement("img");
img2.src = doc.thumbnail;
img2.style.width = "110px";
box2.appendChild(img2);

// <main text>
const title = document.createElement("h1");
title.textContent = doc.title;
title.style.marginBottom = "15px";
box3.appendChild(title);

const price = document.createElement("h1");
price.textContent = "M" + doc.price;
price.style.color = "green";
price.style.marginBottom = "15px";
box3.appendChild(price);

const p = document.createElement("p");
p.textContent = doc.contents;
p.style.fontSize = "18px";
p.style.marginBottom = "30px";
box3.appendChild(p);

//테이블 추가
const table = document.createElement("table");
table.classList.add("S_M_T_table");
box3.appendChild(table);

const table_tr = document.createElement("tr");
table.appendChild(table_tr);
const table_th = document.createElement("th");
table_th.textContent = "Book Name : ";
table_tr.appendChild(table_th);
const table_td = document.createElement("td");
table_td.textContent = doc.title.substring(0,40) + "...";
table_tr.appendChild(table_td);
```

```
const table_tr2 = document.createElement("tr");
table.appendChild(table_tr2);
const table_th2 = document.createElement("th");
table_th2.textContent = "Author Name : ";
table_tr2.appendChild(table_th2);
const table_td2 = document.createElement("td");
table_td2.textContent = doc.authors;
table_tr2.appendChild(table_td2);

const table_tr3 = document.createElement("tr");
table.appendChild(table_tr3);
const table_th3 = document.createElement("th");
table_th3.textContent = "Item Publish Date : ";
table_tr3.appendChild(table_th3);
const table_td3 = document.createElement("td");
table_td3.textContent = doc.datetime.substring(0,10);
table_tr3.appendChild(table_td3);

};

} catch (error) {
  console.log('에러발생', error);
}
```



- 홈페이지를 그대로 따라서 만드는 작업이었으나 생각보다 어려웠습니다.
- 코드를 작성하면서 생각한 방향으로 흘러가지는 않았지만 그 과정에서 새로운 방법을 배울 수 있었습니다.
- 개별로 보면 단순한 효과를 보여주지만 합쳐서 작성하면 여러 효과를 보여줄 수 있다는 것을 느꼈습니다.



# 감사합니다

[https://lsangsu.github.io/OpenAPI\\_project-bookstore-/](https://lsangsu.github.io/OpenAPI_project-bookstore-/)