



Final Project

Bike Shop Web Application

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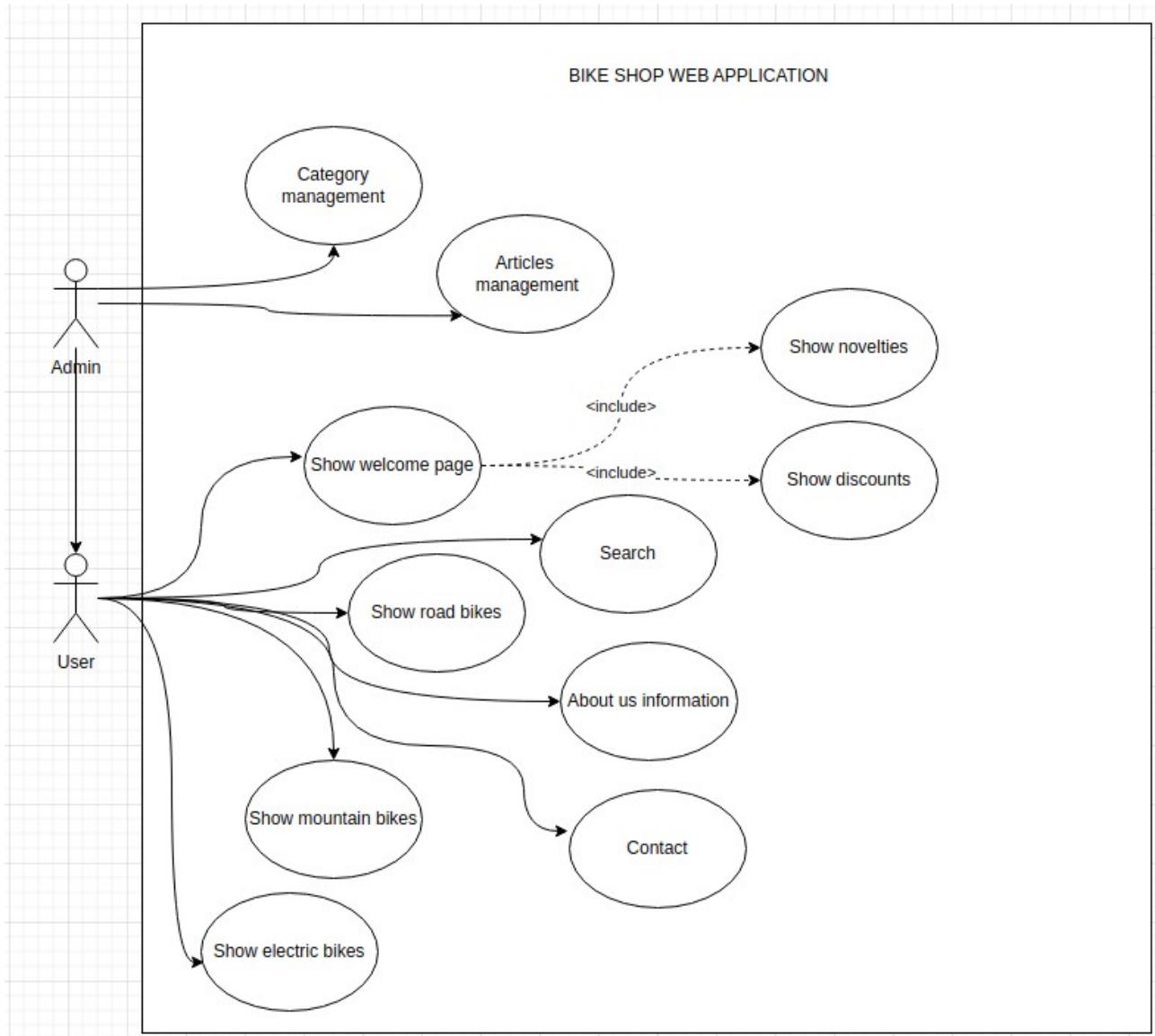
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Requirements

This project must meet all of the requirements below:

1. Include a microservices Java/Spring Boot back-end and an Angular frontend.
2. Include at least 2 SQL database tables.
3. Include at least 4 services plus at least 1 edge service.
4. Include at least 1 GET, POST, PUT/PATCH, and DELETE route.
5. Include adequate and complete documentation.
6. Include at least 1 technology, tool, framework, or library that has not been covered in class

Use case diagram



Front End

Welcome page

The screenshot shows a web browser window for 'localhost:4200'. The header is teal with the logo 'BICIS ANTIDIO' on the left and navigation links 'Road bikes', 'Mountain bikes', 'Electric bikes', and 'Search' on the right. Below the header, there's a section titled 'NOVELTIES' containing two cards. The first card for 'Berria Belador 6' shows a white road bike with a black seat and handlebars, priced at 2949€. The second card for 'Orbea Alma M50' shows a pink and black mountain bike, also from the 2022 collection at 1499€. Below this is a section titled 'DISCOUNTS' with one card for 'Orbea Alma M30' featuring a grey and black mountain bike, listed at 1999€ with a 5% discount.

Berria Belador 6
collection 2022
Price: 2949€

Orbea Alma M50
collection 2022
Price: 1499€

Orbea Alma M30
collection 2022
Price: 1999€
Discount: 5%
Promotion: Black Friday

About us Contact Administration

Road bikes section

The screenshot shows a web browser window for 'localhost:4200/bikes'. The header is teal with the logo 'BICIS ANTIDIO' on the left and navigation links 'Road bikes', 'Mountain bikes', 'Electric bikes', and 'Search' on the right. Below the header, there are three cards for different road bikes. The first card is for 'Berria Belador 6' (white frame) at 2949€. The second card is for another 'Berria Belador 6' (black frame) at 9999€. The third card is for 'Berria new Belador 8' (blue frame) at 99999€.

Berria Belador 6
collection 2022
Price: 2949€

Berria Belador 6
collection 2022
Price: 9999€

Berria new Belador 8
collection 2022
Price: 99999€

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Mountain bikes section

The screenshot shows a web browser window for the URL `localhost:4200/mountain`. The page has a teal header with the logo "BICIS ANTIDIO". The navigation menu includes "Road bikes", "Mountain bikes" (which is highlighted in pink), "Electric bikes", and "Search". Below the menu, there are three product cards for mountain bikes:

- Orbea Alma M50**
collection 2022
Price: 1499€
- Orbea Alma M30**
collection 2022
Price: 1999€
- Orbea Oiz M20**
collection 2022
Price: 3999€

At the bottom of the page are links for "About us", "Contact", and "Administration".

Electric bikes section

The screenshot shows a web browser window for the URL `localhost:4200/electric`. The page has a teal header with the logo "BICIS ANTIDIO". The navigation menu includes "Road bikes", "Mountain bikes", "Electric bikes" (which is highlighted in pink), and "Search". Below the menu, there are three product cards for electric bikes:

- Orbea Elec M30**
collection 2022
Price: 3199€
- Orbea Electric M50**
electric bike for starters
Price: 2499€
- Orbea Electric M00**
Electric Top
Price: 7999.99€

At the bottom of the page are links for "About us", "Contact", and "Administration".

Search section

The screenshot shows a web browser window for the URL `localhost:4200/search`. The page has a teal header with the logo "BICIS ANTIDIO". The navigation menu includes "Road bikes", "Mountain bikes", "Electric bikes", and "Search" (which is highlighted in pink). A search form is present, with a placeholder "Introduce your search" and a "SEARCH" button. Below the search form, there are links for "About us", "Contact", and "Administration".

localhost:4200/search

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

Introduce your search

Search belador

SEARCH

Berria Belador 6

collection 2022

Price: 2949€



Berria Belador 6

collection 2022

Price: 99999€



Berria new Belador 8

collection 2022

Price: 99999€



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localhost:4200/search

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

Introduce your search

Search electric

SEARCH

Orbea Electric M50

electric bike for starters

Price: 2499€



Orbea Electric M00

Electric Top

Price: 7999.99€



About us Contact Administration

If your search not find results:

localhost:4200/search

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

Introduce your search

Search asdf

SEARCH

There are not articles with that name

About us Contact Administration

About us section

The screenshot shows a web browser window for the URL `localhost:4200/information`. The header features a logo for "BICIS ANTIDIO" and navigation links for "Road bikes", "Mountain bikes", "Electric bikes", and "Search". Below the header, a tagline "Come for price, stay for service" is displayed, followed by a paragraph of placeholder text. A contact section includes a phone number (921093626), operating hours (Monday-Friday: 10:30am to 15:00pm and 17:00 to 20:00pm; Saturday: 10:30am to 13:00pm; Sunday: Closed), and a link to "For Any Questions, please call:". A photograph of a bike shop interior is shown, displaying several bicycles. At the bottom, there is a navigation bar with "About us" (highlighted in blue), "Contact", and "Administration".

Contact section

The screenshot shows a web browser window for the URL `localhost:4200/contact`. The header features a logo for "BICIS ANTIDIO" and navigation links for "Road bikes", "Mountain bikes", "Electric bikes", and "Search". A large heading "Leave a message" is centered above a form with fields for "Full Name", "Email", "Subject", and a "Text area". A "SEND MESSAGE" button is located at the bottom left of the form. Below the form, there is a navigation bar with "About us" (highlighted in blue), "Contact", and "Administration".

The screenshot shows a web browser window for the URL `localhost:4200/contact`. The header features a logo for "BICIS ANTIDIO" and navigation links for "Road bikes", "Mountain bikes", "Electric bikes", and "Search". A large heading "Leave a message" is centered above a form with fields for "Full Name" (Pepe Garcia), "Email" (pepegarcia@email.com), "Subject" (Road bike berria belador), and a "Text area" containing placeholder text. A "SEND MESSAGE" button is located at the bottom left of the form. Below the form, there is a navigation bar with "About us" (highlighted in blue), "Contact", and "Administration".

Administration section (only admins users can be access)

The screenshot shows a web browser window with the URL `localhost:4200/login`. The page has a teal header bar with the logo "BICIS ANTIDIO". Below the header, there are navigation links: "Road bikes", "Mountain bikes", "Electric bikes", and "Search". A "Login Form" is centered on the page. It contains two input fields: one for "username" with placeholder text "introduce your username" and one for "password" with placeholder text "introduce your password". Below the fields is a "Login" button. At the bottom of the page, there is a dark footer bar with links: "About us", "Contact", and "Administration".

User with not authorization:

The screenshot shows a web browser window with the URL `localhost:4200/login`. The page layout is identical to the previous screenshot, featuring the "BICIS ANTIDIO" logo and navigation links. The "Login Form" is displayed with the same fields: "username" (placeholder "introduce your username") and "password" (placeholder "introduce your password"). The "Login" button is present. In this version, the "Administration" link in the footer is blue, indicating it is a clickable link.

The screenshot shows a web browser window with the URL `localhost:4200/administration`. The page has a teal header bar with the "BICIS ANTIDIO" logo. Below the header, there are navigation links: "Road bikes", "Mountain bikes", "Electric bikes", and "Search". On the left side, there is a sidebar titled "Administration Menu" containing links: "Categories", "Articles", "Update price", "Novelties", "Discounts", and "Logout". The "Logout" link is underlined, indicating it is active. The main content area is currently empty. At the bottom, there is a dark footer bar with links: "About us", "Contact", and "Administration".

Categories

When you have create new categories

The screenshot shows a web browser window for 'localhost:4200/administration/categories'. At the top, there's a navigation bar with the BICIS ANTIDIO logo, followed by links for 'Road bikes', 'Mountain bikes', 'Electric bikes', and a 'Search' bar. Below the navigation is an 'Administration Menu' with links for 'Categories', 'Articles', 'Update price', 'Novelties', 'Discounts', and 'Logout'. A 'Category Management' section contains fields for 'category name' and 'description', along with a 'Create category' button. A 'Category List' table displays several entries:

Type	Description
accessories	accesories
electric bike	Electric Bike
mountain bike	Mountain Bike
road bike	Bicycles built for traveling at speed on paved roads
tools	Everything you need to maintainance your bikes

At the bottom, there are links for 'About us', 'Contact', and 'Administration'.

Articles

When you can add and delete shop articles

The screenshot shows a web browser window for 'localhost:4200/administration/articles'. The layout is similar to the categories page, with a navigation bar, administration menu, and article management form. The 'Articles Management' section includes fields for 'Name', 'Category', 'Brand', 'Description', 'Image name', 'Price', 'Size', and 'Units', plus an 'Add new article' button. Below this is an 'Article List' table showing 11 items:

ID	Name	Category	Brand	Description	Image	Stock	
1	Belador 6	road bike	Berria	collection 2022	Price:2949	Image:././assets/img/berria_belador0_6.png	Stock: size - L , units - 1
2	Belador 6	road bike	Berria	collection 2022	Price:99999	Image:././assets/img/berria_belador0_6.png	Stock: size - L , units - 1
3	new Belador 8	road bike	Berria	collection 2022	Price:99999	Image:././assets/img/berria-belador-8.png	Stock: size - L , units - 1
6	Alma M50	mountain bike	Orbea	collection 2022	Price:1499	Image:././assets/img/ALMA_M50.jpg	Stock: size - L , units - 1
7	Alma M30	mountain bike	Orbea	collection 2022	Price:1999	Image:././assets/img/almam30.jpg	Stock: size - M , units - 1
8	Oiz M20	mountain bike	Orbea	collection 2022	Price:3999	Image:././assets/img/oiz.jpg	Stock: size - M , units - 1
9	Elec M30	electric bike	Orbea	collection 2022	Price:3199	Image:././assets/img/bicicleta-electrica1.jpg	Stock: size - M , units - 1
10	Electric M50	electric bike	Orbea	Description: electric bike for starters	Price:2499	Image:././assets/img/bicicleta-electrica2.jpg	Stock: size - XL , units - 1
11	Electric M00	electric bike	Orbea	Description: Electric Top	Price:7999.99	Image:././assets/img/bicicleta-electrica3.jpg	Stock: size - L , units - 1

At the bottom, there are links for 'About us', 'Contact', and 'Administration'.

Add article:

Screenshot of the 'Administration Menu' page for adding a new article.

Form Fields (Article Creation):

- Name: orca M40
- Category: road bike
- Brand: Orbea
- Description: new bike 2022
- Image name: orbea-orca-m40.jpg
- Price: 3990
- Size: M
- Units: 1
- [Add new article](#)

Article List:

- Please select a article id...
- Id: 1 Name: Belador 6 Category: road bike Brand: Berria Description: collection 2022 Price:2949 Image:./././assets/img/berria_belador0_6.png Stock: size - L , units - 1**
- Id: 2 Name: Belador 6 Category: road bike Brand: Berria Description: collection 2022 Price:99999 Image:./././assets/img/berria_belador0_6.png Stock: size - L , units - 1**
- Id: 3 Name: new Belador 8 Category: road bike Brand: Berria Description: collection 2022 Price:99999 Image:./././assets/img/berria-belador8.png Stock: size - L , units - 1**
- Id: 6 Name: Alma M50 Category: mountain bike Brand: Orbea Description: collection 2022 Price:1499 Image:./././assets/img/ALMA_M50.jpg Stock: size - L , units - 1**
- Id: 7 Name: Alma M30 Category: mountain bike Brand: Orbea Description: collection 2022 Price:1999 Image:./././assets/img/almam30.jpg Stock: size - M , units - 1**
- Id: 8 Name: Oiz M20 Category: mountain bike Brand: Orbea Description: collection 2022 Price:3999 Image:./././assets/img/oiz.prn Stock: size - M , units - 1**
- Id: 9 Name: Elec M30 Category: electric bike Brand: Orbea Description: collection 2022 Price:3199 Image:./././assets/img/bicicleta-electrica-1.jpg Stock: size - M , units - 1**
- Id: 10 Name: Electric M50 Category: electric bike Brand: Orbea Description: electric bike for starters Price:2499 Image:./././assets/img/bicicleta-electrica-2.jpg Stock: size - XL , units - 1**
- Id: 11 Name: Electric M00 Category: electric bike Brand: Orbea Description: Electric Top Price:7999.99 Image:./././assets/img/bicicleta-electrica-3.jpg Stock: size - L , units - 1**

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Screenshot of the 'Administration Menu' page for adding a new article.

Form Fields (Article Creation):

- Name: name
- Category: road bike
- Brand: brand
- Description: description
- Image name: image name
- Price: 0
- Size:
- Units: 0
- [Add new article](#)

Article List:

- Please select a article id...
- Id: 1 Name: Belador 6 Category: road bike Brand: Berria Description: collection 2022 Price:2949 Image:./././assets/img/berria_belador0_6.png Stock: size - L , units - 1**
- Id: 2 Name: Belador 6 Category: road bike Brand: Berria Description: collection 2022 Price:99999 Image:./././assets/img/berria_belador0_6.png Stock: size - L , units - 1**
- Id: 3 Name: new Belador 8 Category: road bike Brand: Berria Description: collection 2022 Price:99999 Image:./././assets/img/berria-belador8.png Stock: size - L , units - 1**
- Id: 6 Name: Alma M50 Category: mountain bike Brand: Orbea Description: collection 2022 Price:1499 Image:./././assets/img/ALMA_M50.jpg Stock: size - L , units - 1**
- Id: 7 Name: Alma M30 Category: mountain bike Brand: Orbea Description: collection 2022 Price:1999 Image:./././assets/img/almam30.jpg Stock: size - M , units - 1**
- Id: 8 Name: Oiz M20 Category: mountain bike Brand: Orbea Description: collection 2022 Price:3999 Image:./././assets/img/oiz.prn Stock: size - M , units - 1**
- Id: 9 Name: Elec M30 Category: electric bike Brand: Orbea Description: collection 2022 Price:3199 Image:./././assets/img/bicicleta-electrica-1.jpg Stock: size - M , units - 1**
- Id: 10 Name: Electric M50 Category: electric bike Brand: Orbea Description: electric bike for starters Price:2499 Image:./././assets/img/bicicleta-electrica-2.jpg Stock: size - XL , units - 1**
- Id: 11 Name: Electric M00 Category: electric bike Brand: Orbea Description: Electric Top Price:7999.99 Image:./././assets/img/bicicleta-electrica-3.jpg Stock: size - L , units - 1**
- Id: 20 Name: orca M40 Category: road bike Brand: Orbea Description: new bike 2022 Price:3990 Image:./././assets/img/orbea-orca-m40.jpg Stock: size - M , units - 1**

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Screenshot of the 'Bikes' page displaying a grid of bicycle models.

Berria Belador 6	Berria Belador 6	Berria new Belador 8	Orbea orca M40
collection 2022 Price: 2949€ 	collection 2022 Price: 9999€ 	collection 2022 Price: 9999€ 	new bike 2022 Price: 3990€ 

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Delete article:

Screenshot of the 'Administration' page showing the 'Articles Management' section. The page includes a navigation bar with links for Road bikes, Mountain bikes, Electric bikes, and Search. On the left, there's a sidebar with an 'Administration Menu' containing links for Categories, Articles, Update price, Novelties, Discounts, and Logout. The main area shows a table of articles with columns for ID, Name, Category, Brand, Description, Image name, Price, Size, and Units. An 'Add new article' button is also present.

ID	Name	Category	Brand	Description	Image name	Price	Size	Units
1	Orbea road bike	road bike	Berria	collection 2022	Price:2949	Image:././assets/img/berria_belador0_6.png	Stock: size - L , units - 1	
2	Orbea road bike	road bike	Berria	collection 2022	Price:99999	Image:././assets/img/berria_belador0_6.png	Stock: size - L , units - 1	
3	Orbea road bike	road bike	Berria	collection 2022	Price:99999	Image:././assets/img/berria_belador8.png	Stock: size - L , units - 1	
7	Orbea mountain bike	mountain bike	Berria	collection 2022	Price:1499	Image:././assets/img/ALMA_M50.jpg	Stock: size - L , units - 1	
9	Orbea mountain bike	mountain bike	Orbea	collection 2022	Price:1999	Image:././assets/img/oiz_m30.jpg	Stock: size - M , units - 1	
10	Orbea mountain bike	mountain bike	Orbea	collection 2022	Price:3999	Image:././assets/img/oiz_m20.png	Stock: size - M , units - 1	
11	Orbea electric bike	electric bike	Orbea	collection 2022	Price:3199	Image:././assets/img/bicicleta-electrica-1.jpg	Stock: size - M , units - 1	
12	Orbea electric bike	electric bike	Orbea	collection 2022	Price:2499	Image:././assets/img/bicicleta-electrica-2.jpg	Stock: size - XL , units - 1	
13	Orbea electric bike	electric bike	Orbea	collection 2022	Price:7999.99	Image:././assets/img/bicicleta-electrica-3.jpg	Stock: size - L , units - 1	
14	Orbea new bike	road bike	Berria	collection 2022	Price:4990	Image:././assets/img/orbea-orca-m40.jpg	Stock: size - M , units - 1	

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Screenshot of the 'Administration' page showing the 'Articles Management' section. The interface is identical to the first screenshot, but the table now shows a single row with a 'Deleted' status, indicating that one or more articles have been deleted.

ID	Name	Category	Brand	Description	Image name	Price	Size	Units
1	Belador 6	road bike	Berria	collection 2022	Price:2949	Image:././assets/img/berria_belador0_6.png	Stock: size - L , units - 1	Deleted
2	Belador 6	road bike	Berria	collection 2022	Price:99999	Image:././assets/img/berria_belador0_6.png	Stock: size - L , units - 1	Deleted
3	new Belador 8	road bike	Berria	collection 2022	Price:99999	Image:././assets/img/berria_belador8.png	Stock: size - L , units - 1	Deleted
6	Alma M50	mountain bike	Berria	collection 2022	Price:1499	Image:././assets/img/ALMA_M50.jpg	Stock: size - L , units - 1	Deleted
7	Alma M30	mountain bike	Berria	collection 2022	Price:1999	Image:././assets/img/almam30.jpg	Stock: size - M , units - 1	Deleted
8	Oiz M20	mountain bike	Orbea	collection 2022	Price:3999	Image:././assets/img/oiz_m20.png	Stock: size - M , units - 1	Deleted
9	Elec M30	electric bike	Orbea	collection 2022	Price:3199	Image:././assets/img/bicicleta-electrica-1.jpg	Stock: size - M , units - 1	Deleted
10	Electric M50	electric bike	Orbea	collection 2022	Price:2499	Image:././assets/img/bicicleta-electrica-2.jpg	Stock: size - XL , units - 1	Deleted
11	Electric M00	electric bike	Orbea	collection 2022	Price:7999.99	Image:././assets/img/bicicleta-electrica-3.jpg	Stock: size - L , units - 1	Deleted

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Screenshot of the 'Bikes' page showing a grid of three bicycle models. Each card displays the brand, model name, collection year, price, and a small image of the bike.

Berria Belador 6 collection 2022 Price: 2949€ 	Berria Belador 6 collection 2022 Price: 99999€ 	Berria new Belador 8 collection 2022 Price: 99999€
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Update price

When you can modify articles price

The screenshot shows a web-based administration interface for a bicycle store. At the top, there's a navigation bar with links for 'Road bikes', 'Mountain bikes', 'Electric bikes', and 'Search'. Below the navigation is a sub-menu titled 'Administration Menu' with links for 'Categories', 'Articles', 'Update price' (which is highlighted in blue), 'Novelties', 'Discounts', and 'Logout'. The main content area is titled 'Price Management'. It features a form with fields for 'Article Id' (set to 20) and 'Price' (set to 4990). A 'Update' button is present. To the right of the form is a 'Article List' table containing 20 rows of bicycle data, each with columns for ID, Name, Category, Brand, Description, Price, Image, and Stock information. At the bottom of the page are links for 'About us', 'Contact', and 'Administration'.

This screenshot is nearly identical to the one above, but the 'Price' field in the update form has been changed to 0. The rest of the interface, including the article list and footer links, remains the same.

Novelties

When you can add and delete novelty articles

The screenshot shows a web browser window with the URL `localhost:4200/administration/novelties`. The page has a blue header bar with the BICIS ANTIDIO logo and navigation links for Road bikes, Mountain bikes, Electric bikes, and Search. Below the header is the 'Administration Menu' with links for Categories, Articles, Update price, Novelties, Discounts, and Logout. The main content area is titled 'Novelties Management'. It displays an 'Article List' with items like Belador 6, Belador 6, new Belador 8, Alma M50, Alma M30, Oiz M20, Elec M30, Electric M50, Electric M00, and orca M40. A dropdown menu shows 'Please select an article name...'. Below this is a 'Novelty List' with a dropdown menu showing 'Please select a novelty id...'. At the bottom, there are links for About us, Contact, and Administration.

Add novelty:

This screenshot is identical to the one above, but it shows that the dropdown menu in the 'Novelty List' section has been populated with the option 'orca M40'. The rest of the interface, including the article list and footer links, remains the same.

localhost:4200/administration/novelties

BICIS ANTIDIO

- Road bikes
- Mountain bikes
- Electric bikes
- Search

Administration Menu

Categories

Articles

Update price

Novelties

Discounts

[Logout](#)

Article List:

- Id: 1 , name: Belador 6**
- Id: 2 , name: Belador 6**
- Id: 3 , name: new Belador 8**
- Id: 6 , name: Alma M50**
- Id: 7 , name: Alma M30**
- Id: 8 , name: Oiz M20**
- Id: 9 , name: Elec M30**
- Id: 10 , name: Electric M50**
- Id: 11 , name: Electric M00**
- Id: 20 , name: orca M40**

Novelty List:

Id: 3 , Name: Belador 6 Category: road bike Brand: Berria Description: collection 2022 Price: 2949 Image: ././assets/img/berria_belad00_6.png Stock: size - L , units - 1

Id: 6 , Name: Alma M50 Category: mountain bike Brand: Orbea Description: collection 2022 Price: 1499 Image: ././assets/img/ALMA_M50.jpg Stock: size - L , units - 1

Id: 9 , Name: orca M40 Category: road bike Brand: Orbea Description: new bike 2022 Price: 4990 Image: ././assets/img/orbea-orca-m40.jpg Stock: size - M , units - 1

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localhost:4200

BICIS ANTIDIO

- Road bikes
- Mountain bikes
- Electric bikes
- Search

NOVELTIES

Berria Belador 6

collection 2022

Price: 2949€

Orbea Alma M50

collection 2022

Price: 1499€

Orbea orca M40

new bike 2022

Price: 4990€

DISCOUNTS

Orbea Alma M30

collection 2022

Price: 1999€

Discount: 5%

Promotion: Black Friday

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Delete novelty:

localhost:4200/administration/novelties

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

Administration Menu Novelties Management

Categories Article List:

- [Articles](#)
- [Update price](#)
- [Novelties](#)
- [Discounts](#)
- [Logout](#)

Article List:

- [Id: 1 , name: Belador 6](#)
- [Id: 2 , name: Belador 6](#)
- [Id: 3 , name: new Belador 8](#)
- [Id: 6 , name: Alma M50](#)
- [Id: 7 , name: Alma M30](#)
- [Id: 8 , name: Oiz M20](#)
- [Id: 9 , name: Elec M30](#)
- [Id: 10 , name: Electric M50](#)
- [Id: 11 , name: Electric M00](#)
- [Id: 20 , name: orca M40](#)

[Please select an article name... ▾](#)

[Add new novelty](#)

Novelty List:

[3](#) [Delete](#)

3, Name: Belador 6 **Category:** road bike **Brand:** Berria **Description:** collection 2022 **Price:** 2949 **Image:** ../../assets/img/berria_belado0_6.png **Stock:** size - L , units - 1

Id: 6, Name: Alma M50 **Category:** mountain bike **Brand:** Orbea **Description:** collection 2022 **Price:** 1499 **Image:** ../../assets/img/ALMA_M50.jpg **Stock:** size - L , units - 1

Id: 9, Name: orca M40 **Category:** road bike **Brand:** Orbea **Description:** new bike 2022 **Price:** 4990 **Image:** ../../assets/img/orbea-orca-m40.jpg **Stock:** size - M , units - 1

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localhost:4200/administration/novelties

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

Administration Menu Novelties Management

Categories Article List:

- [Articles](#)
- [Update price](#)
- [Novelties](#)
- [Discounts](#)
- [Logout](#)

Article List:

- [Id: 1 , name: Belador 6](#)
- [Id: 2 , name: Belador 6](#)
- [Id: 3 , name: new Belador 8](#)
- [Id: 6 , name: Alma M50](#)
- [Id: 7 , name: Alma M30](#)
- [Id: 8 , name: Oiz M20](#)
- [Id: 9 , name: Elec M30](#)
- [Id: 10 , name: Electric M50](#)
- [Id: 11 , name: Electric M00](#)
- [Id: 20 , name: orca M40](#)

[Please select an article name... ▾](#)

[Add new novelty](#)

Novelty List:

[Please select a novelty id... ▾](#) [Delete](#)

Id: 6, Name: Alma M50 **Category:** mountain bike **Brand:** Orbea **Description:** collection 2022 **Price:** 1499 **Image:** ../../assets/img/ALMA_M50.jpg **Stock:** size - L , units - 1

Id: 9, Name: orca M40 **Category:** road bike **Brand:** Orbea **Description:** new bike 2022 **Price:** 4990 **Image:** ../../assets/img/orbea-orca-m40.jpg **Stock:** size - M , units - 1

About us Contact Administration

The screenshot shows the homepage of the BICIS ANTIDIO website. At the top, there is a navigation bar with links for 'Road bikes', 'Mountain bikes', 'Electric bikes', and a search bar. Below the navigation bar, there is a section titled 'NOVELTIES' featuring two bicycle models:

- Orbea Alma M50**: collection 2022, Price: 1499€. An image of a black and red mountain bike is shown.
- Orbea orca M40**: new bike 2022, Price: 4990€. An image of a white road bike is shown.

Below this section, there is another titled 'DISCOUNTS' featuring a single bicycle model:

- Orbea Alma M30**: collection 2022, Price: 1999€, Discount: 5%, Promotion: Black Friday. An image of a white mountain bike is shown.

At the bottom of the page, there is a footer with links for 'About us', 'Contact', and 'Administration'.

Discounts

When you can add and delete discounts

The screenshot shows the 'Discounts Management' page in the BICIS ANTIDIO administration system. At the top, there is a navigation bar with links for 'Road bikes', 'Mountain bikes', 'Electric bikes', and a search bar. Below the navigation bar, there is a sidebar with an 'Administration Menu' containing links for 'Categories', 'Articles', 'Update price', 'Novelties', 'Discounts', and 'Logout'. The main content area is titled 'Discounts Management' and contains the following information:

- Article List:** A list of bicycle models with their IDs and names:
 - Id: 1 , name: Belador 6**
 - Id: 2 , name: Belador 6**
 - Id: 3 , name: new Belador 8**
 - Id: 6 , name: Alma M50**
 - Id: 7 , name: Alma M30**
 - Id: 8 , name: Oiz M20**
 - Id: 9 , name: Elec M30**
 - Id: 10 , name: Electric M50**
 - Id: 11 , name: Electric M00**
 - Id: 20 , name: orca M40**
- Add new discount:** A form with fields for 'Please select an article name...', 'Promotion [promotion]', 'Discount 0', and a 'Add new discount' button.
- Discount List:** A table with columns for 'Please select a discount id...', 'Delete', and a link to view details for 'Id: 7, Name: Alma M30 Category: mountain bike Brand: Orbea Description: collection 2022 Price: 1999 Discount: 5% Promotion: Black Friday Image:../../assets/img/alma-m30.jpg Stock: size - M , units - 1'.

At the bottom of the page, there is a footer with links for 'About us', 'Contact', and 'Administration'.

Add discount:

localhost:4200/administration/discounts

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

Administration Menu

Discounts Management

Categories Articles Update price Novelties Discounts Logout

Article List:

- Id: 1 , name: Belador 6**
- Id: 2 , name: Belador 6**
- Id: 3 , name: new Belador 8**
- Id: 6 , name: Alma M50**
- Id: 7 , name: Alma M30**
- Id: 8 , name: Oiz M20**
- Id: 9 , name: Elec M30**
- Id: 10 , name: Electric M50**
- Id: 11 , name: Electric M00**
- Id: 20 , name: orca M40**

orca M40

Promotion Christmas

Discount 0

Add new discount

Discount List:

Please select a discount id... ▾

Deleted

Id: 7 , Name: Alma M30 Category: mountain bike Brand: Orbea Description: collection 2022 Price: 1999 Discount: 5% Promotion: Black Friday Image: ../../assets/img/alma-m30.jpg Stock: size - M , units - 1

About us Contact Administration

localhost:4200/administration/discounts

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

Administration Menu

Discounts Management

Categories Articles Update price Novelties Discounts Logout

Article List:

- Id: 1 , name: Belador 6**
- Id: 2 , name: Belador 6**
- Id: 3 , name: new Belador 8**
- Id: 6 , name: Alma M50**
- Id: 7 , name: Alma M30**
- Id: 8 , name: Oiz M20**
- Id: 9 , name: Elec M30**
- Id: 10 , name: Electric M50**
- Id: 11 , name: Electric M00**
- Id: 20 , name: orca M40**

Please select an article name... ▾

Promotion promotion

Discount 0

Add new discount

Discount List:

Please select a discount id... ▾

Deleted

Id: 7 , Name: Alma M30 Category: mountain bike Brand: Orbea Description: collection 2022 Price: 1999 Discount: 5% Promotion: Black Friday Image: ../../assets/img/alma-m30.jpg Stock: size - M , units - 1

Id: 10 , Name: orca M40 Category: road bike Brand: Orbea Description: new bike 2022 Price: 4990 Discount: 10% Promotion: Christmas Image: ../../assets/img/orbea-orca-m40.jpg Stock: size - M , units - 1

About us Contact Administration

localhost:4200

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

NOVELTIES

Orbea Alma M50

collection 2022
Price: 1499€



Orbea orca M40

new bike 2022
Price: 4990€



DISCOUNTS

Orbea Alma M30

collection 2022
Price: 1999€
Discount: 5%
Promotion: Black Friday



Orbea orca M40

new bike 2022
Price: 4990€
Discount: 10%
Promotion: Christmas



About us Contact Administration

Delete discount:

localhost:4200/administration/discounts

BICIS ANTIDIO

Road bikes Mountain bikes Electric bikes Search

Administration Menu

Article List:

Categories	Articles
Update price	Id: 1 , name: Belador 6
Novelties	Id: 2 , name: Belador 6
Discounts	Id: 3 , name: new Belador 8
Logout	Id: 6 , name: Alma M50

Please select an article name...

Promotion

Discount

[Add new discount](#)

Discount List:

10	Please select a discount id...
7	7: mountain bike Brand: Orbea Description: collection 2022 Price: 1999 Discount: 5% Promotion: Black Friday Image: ../../assets/img/alma-m30.jpg Stock: size - M, units - 1
10	10: road bike Brand: Orbea Description: new bike 2022 Price: 4990 Discount: 10% Promotion: Christmas Image: ../../assets/img/orbea-orca-m40.jpg Stock: size - M, units - 1

About us Contact Administration

localhost:4200/administration/discounts

BICIS ANTIDIO

- [Road bikes](#)
- [Mountain bikes](#)
- [Electric bikes](#)
- [Search](#)

Administration Menu

Discounts Management

Categories
[Articles](#)
[Update price](#)
[Novelties](#)
[Discounts](#)
[Logout](#)

Article List:

Id: 1 , name: Belador 6
Id: 2 , name: Belador 6
Id: 3 , name: new Belador 8
Id: 6 , name: Alma M50
Id: 7 , name: Alma M30
Id: 8 , name: Oiz M20
Id: 9 , name: Elec M30
Id: 10 , name: Electric M50
Id: 11 , name: Electric M00
Id: 20 , name: orca M40

Please select an article name...

Discount list:

Please select a discount id...

Id: 7 , Name: Alma M30 Category: mountain bike Brand: Orbea Description: collection 2022 Price: 1999 Discount: 5% Promotion: Black Friday Image: ../../assets/img/alma-m30.jpg Stock: size - M , units - 1

About us Contact Administration

localhost:4200

BICIS ANTIDIO

- [Road bikes](#)
- [Mountain bikes](#)
- [Electric bikes](#)
- [Search](#)

NOVELTIES

Orbea Alma M50

collection 2022
Price: 1499€



Orbea orca M40

new bike 2022
Price: 4990€



DISCOUNTS

Orbea Alma M30

collection 2022
Price: 1999€
Discount: 5%
Promotion: Black Friday



About us Contact Administration

Logout

The screenshot shows a browser window with the URL `localhost:4200/administration`. At the top, there's a navigation bar with categories: Road bikes, Mountain bikes, Electric bikes, and a Search bar. Below the navigation bar is a sidebar titled "Administration Menu" containing links for Categories, Articles, Update price, Novelties, Discounts, and Logout. The main content area has tabs for About us, Contact, and Administration, with "Administration" being the active tab.

You go to welcome page

The screenshot shows a browser window with the URL `localhost:4200`. The header includes the BICIS ANTIDIO logo, navigation links for Road bikes, Mountain bikes, Electric bikes, and a Search bar. Below the header, there are two sections: "NOVELTIES" and "DISCOUNTS".
NOVELTIES: Two bike models are shown in boxes:

- Orbea Alma M50**: collection 2022, Price: 1499€, featuring a red and black mountain bike.
- Orbea orca M40**: new bike 2022, Price: 4990€, featuring a white road bike.

DISCOUNTS: One bike model is shown in a box:

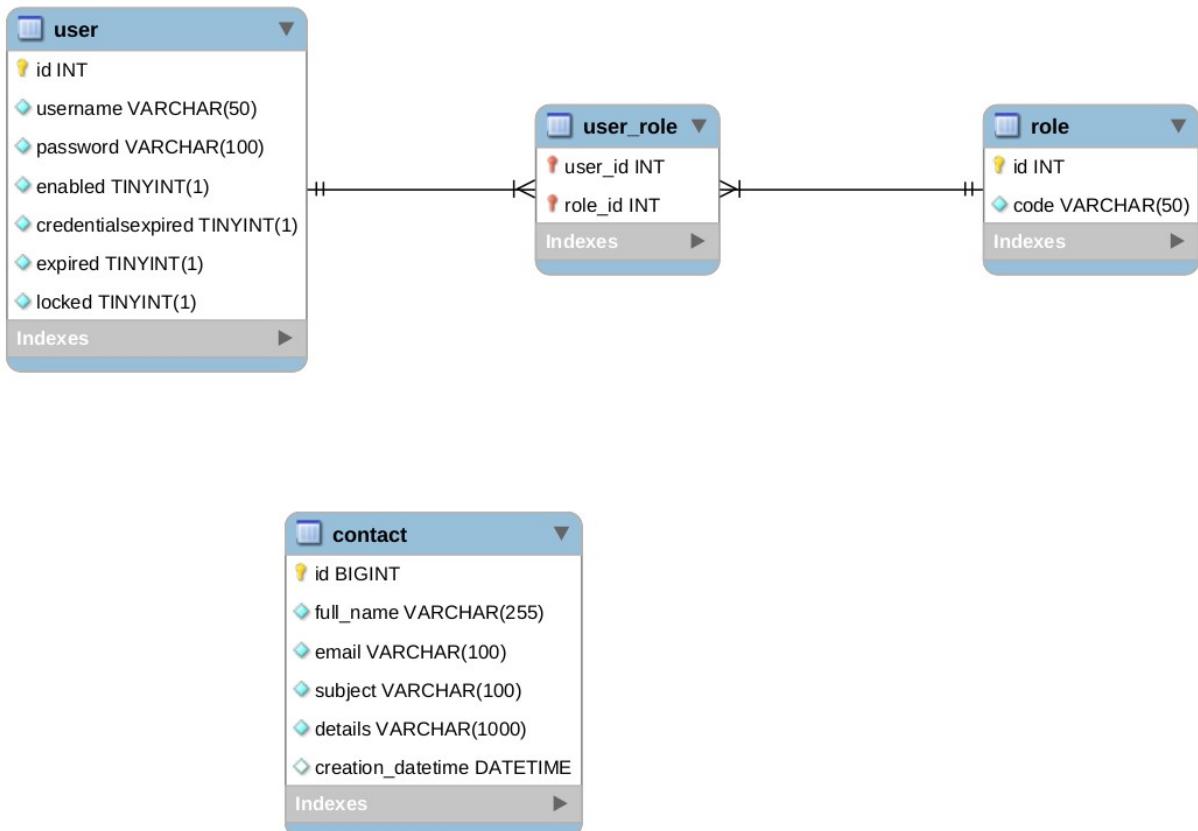
- Orbea Alma M30**: collection 2022, Price: 1999€, Discount: 5%, Promotion: Black Friday, featuring a black mountain bike.

At the bottom of the page are three footer links: About us, Contact, and Administration.

Back End

There are two schemas database.

bicisAntidio_admin

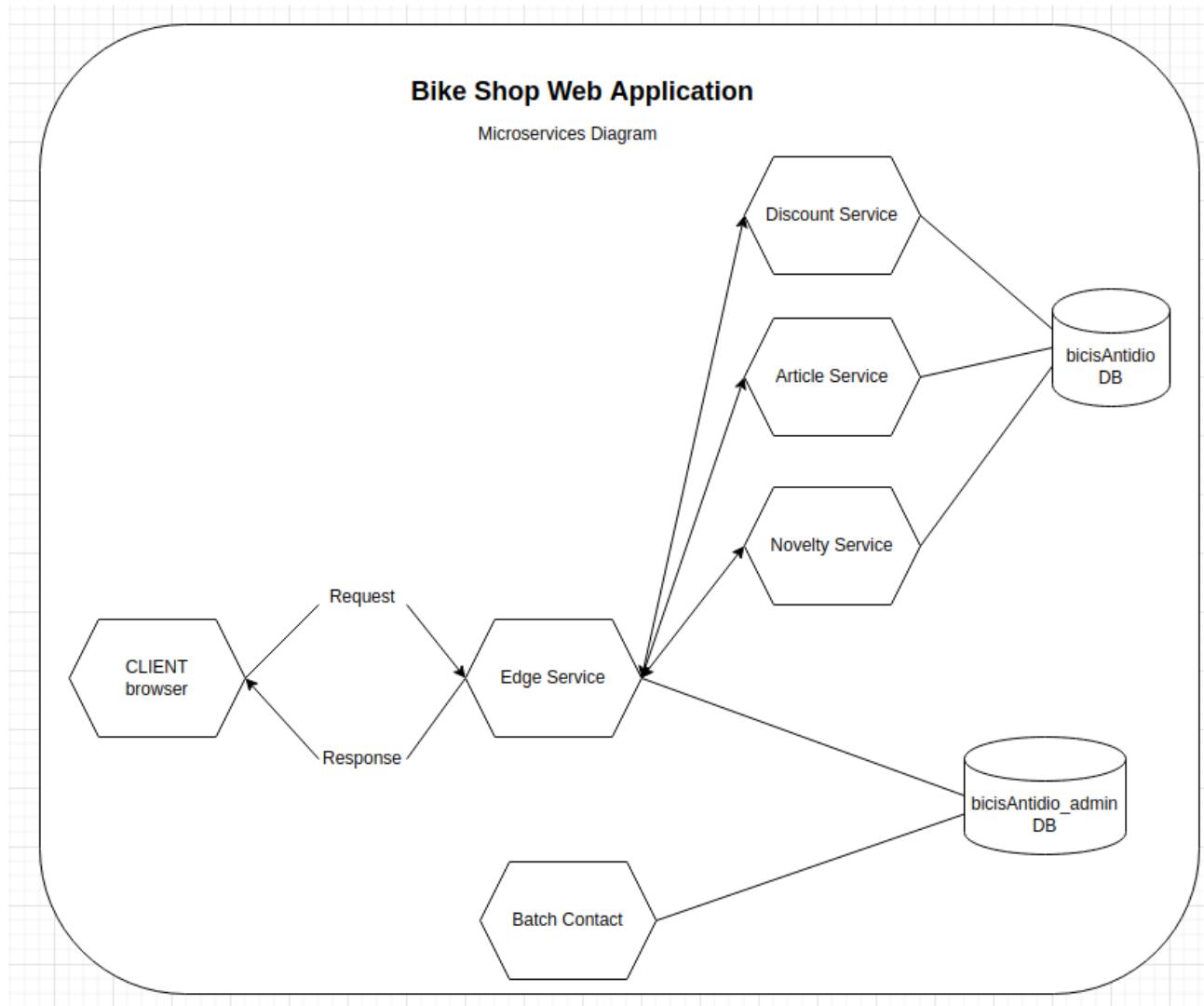




With following end-points:

GET	http://localhost:8080/login	to get Bearer token
GET	http://localhost:8080/categories	to get all categories
POST	http://localhost:8080/categories	to create new category
GET	http://localhost:8080/articles	to get all articles
GET	http://localhost:8080/articles?category=...	to get articles by category
POST	http://localhost:8080/articles	to create new article
DELETE	http://localhost:8080/articles/{id}	to delete article
PATCH	http://localhost:8080/articles/{id}	to modify article price
GET	http://localhost:8080/novelties	to get all novelties
POST	http://localhost:8080/novelties	to create new novelty
DELETE	http://localhost:8080/novelties/{id}	to delete novelty
GET	http://localhost:8080/discounts	to get all discounts
POST	http://localhost:8080/discounts	to create new discount
DELETE	http://localhost:8080/discounts/{id}	to delete discount
POST	http://localhost:8080/contact	to store contact information
GET	http://localhost:8080/articles-by-name?name=...	to get article by name like

Microservices diagram:



Four microservices to run application:

The screenshot shows the Spring Eureka dashboard at localhost:8761. The top navigation bar includes links for Ironhack Studio, programing, ubuntu utils, English, and Lista de lectura. The main content area is titled "System Status" and displays various system metrics such as Environment (N/A), Data center (N/A), Current time (2021-12-12T16:56:57+0100), Uptime (00:02), Lease expiration enabled (true), Renews threshold (8), and Renews (last min) (10). Below this is a section titled "DS Replicas" showing registered instances under the host "localhost". A table lists four services: ARTICLE-SERVICE, DISCOUNT-SERVICE, EDGE-SERVICE, and NOVELTY-SERVICE, each with its status (UP), IP address (192.168.1.48), and port (8081, 8083, 8080, 8082 respectively).

And one more for admins, to get day before contact information in “contact.csv” file:

The screenshot shows MySQL Workbench connected to a database named "ironhacker". The left sidebar shows the schema structure with a table named "contact" selected. The main pane displays a query in the SQL editor:

```

1 • SELECT * FROM bicisAntidio_admin.contact
2   ORDER BY creation_datetime DESC;

```

The result grid shows the following data:

#	id	full_name	email	subject	details	creation_datetime
1	12	Pepe Garcia	pepegarcia@email.com	Road bike berria belador	adsf afadfs df sdf asdf asfasdf asd...	2021-12-11 23:59:59
2	11	Marco Aurelio	marcoaurelio@email.com	Berria Belador 6	dsfasdf sdfaf asdf sf sdf asfdf asfda...	2021-12-11 00:00:00
3	10	Valentino Rossi	valentinorossi@email.com	I want a new bike	sdfasdfs asdf asdfa fadf sdf asfda fa...	2021-12-08 17:25:45
4	9	pepe garcia	pepe@email.com	Orbea M30 discount	asdfsdf awdfasdf asd fadf asdf sad...	2021-12-08 17:04:50
5	8	Prueba en directo	ivan@email.com	test	asdfsdf	2021-12-02 18:12:58

```
t/backend/batch-contact (master)$ mvn spring-boot:run
```

The screenshot shows a file browser interface with the following files listed:

- Nombre: com
- application.properties
- contact.csv

On the right side, there is a "Tamaño" (Size) column showing the file sizes:

- 1 elemento (1 element)
- 80 bytes
- 376 bytes

```

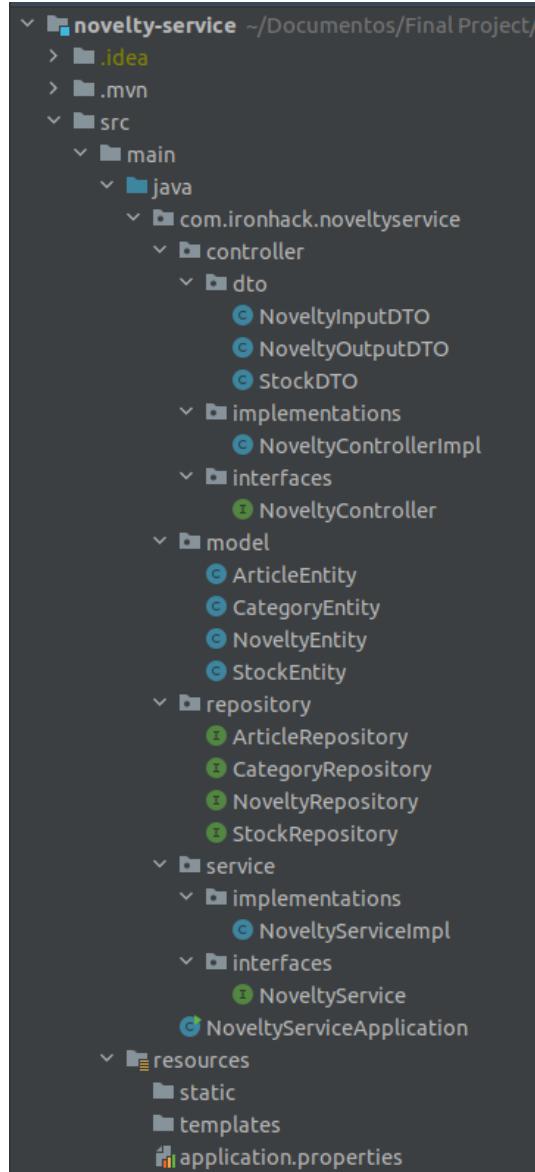
[INFO] Attaching agents: []
[INFO] 
[INFO] 
[INFO] :: Spring Boot ::      (v2.0.1)
[INFO] 
[INFO] 2021-12-12 09:58:18.594 INFO 6303 --- [           main] c.l.b.BatchContactApplication          : Starting BatchContactApplication using Java 11.0.11 on sergio-VivoBook-15-ASUS-Laptop-X540BA with PID 6
303 (/home/sergio/Dокументos/Final Project/backend/batch-contact/target/classes started by sergio in /home/sergio/Dокументos/Final Project/backend/batch-contact)
[INFO] 2021-12-12 09:58:18.597 INFO 6303 --- [           main] c.l.b.BatchContactApplication          : No active profile set, falling back to default profiles: default
[INFO] Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is generally unnecessary.
[INFO] 2021-12-12 09:58:20.704 INFO 6303 --- [           main] o.s.b.c.r.s.JobRepositoryFactoryBean   : No database type set, using meta data indicating: MySQL
[INFO] 2021-12-12 09:58:20.833 INFO 6303 --- [           main] o.s.b.c.l.support.SimpleJobLauncher    : TaskExecutor has been set, defaulting to synchronous executor.
[INFO] 2021-12-12 09:58:21.033 INFO 6303 --- [           main] o.s.b.c.l.support.SimpleJobLauncher    : Started BatchContactApplication after 124 seconds (JVM running for 3.89)
[INFO] 2021-12-12 09:58:20.993 INFO 6303 --- [           main] o.s.b.c.b.JobLauncherApplicationRunner  : Running default command line with: []
[INFO] 2021-12-12 09:58:21.577 INFO 6303 --- [           main] o.s.b.c.l.support.SimpleJobLauncher    : Job: [FlowJob: [name=exportContactJob]] launched with the following parameters: [{run.id=34}]
[INFO] 2021-12-12 09:58:21.819 INFO 6303 --- [           main] o.s.batch.core.job.SimpleStepHandler   : Job: [FlowJob: [name=exportContactJob]] launched with the following parameters: [{run.id=34}]
[INFO] 2021-12-12 09:58:22.062 INFO 6303 --- [           main] o.s.batch.core.step.AbstractStep        : Executing step: [Step 1]
[INFO] 2021-12-12 09:58:22.190 INFO 6303 --- [           main] o.s.b.c.l.support.SimpleJobLauncher    : Step: [Step 1] executed in 243ms
[INFO] 2021-12-12 09:58:22.190 INFO 6303 --- [           main] o.s.b.c.l.support.SimpleJobLauncher    : Job: [FlowJob: [name=exportContactJob]] completed with the following parameters: [{run.id=34}] and the
following status: [COMPLETED] in 539ms
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time:  9.184 s
[INFO] Finished at: 2021-12-12T09:58:22+01:00
[INFO] -----

```

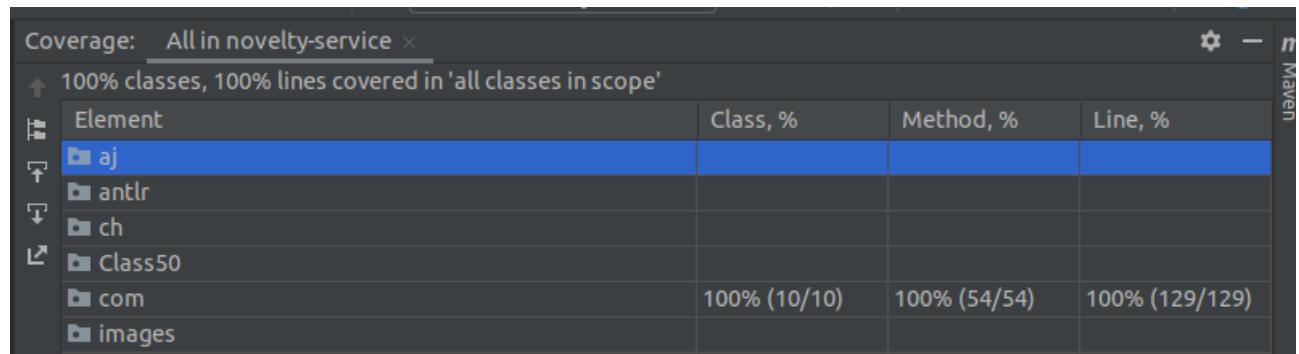
contact.csv - LibreOffice Calc

contact.csv - LibreOffice Calc							
contact.csv - LibreOffice Calc							
contact.csv - LibreOffice Calc							
E16	f1	S	A	E	F	G	H
	A	B	C	D	E	F	G
1	11 Marco Aurelio	marcoaurelio@gmail.com	Berria Belador 6	dtsasdr sdf asdf sf sdf asdfa sfa frgwy uvdfr wth wh	2021-12-11 00:00:00.0		
2	12 Pepe Garcia	pepegarcia@gmail.com	Road bike berria belador	adsf afadsf sdf sdf asdf asfasdf asdfa sfasdt adf asdf asdf sdf asdf fasdf asdf	2021-12-11 23:59:59.0		
3							
4							

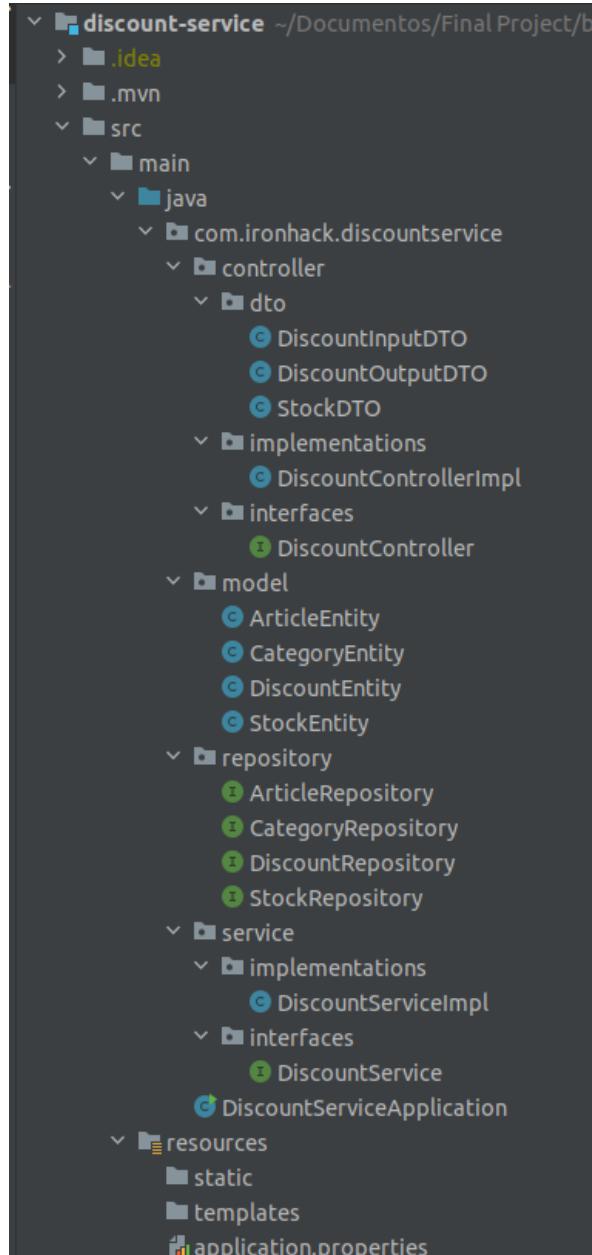
novelty-service microservice



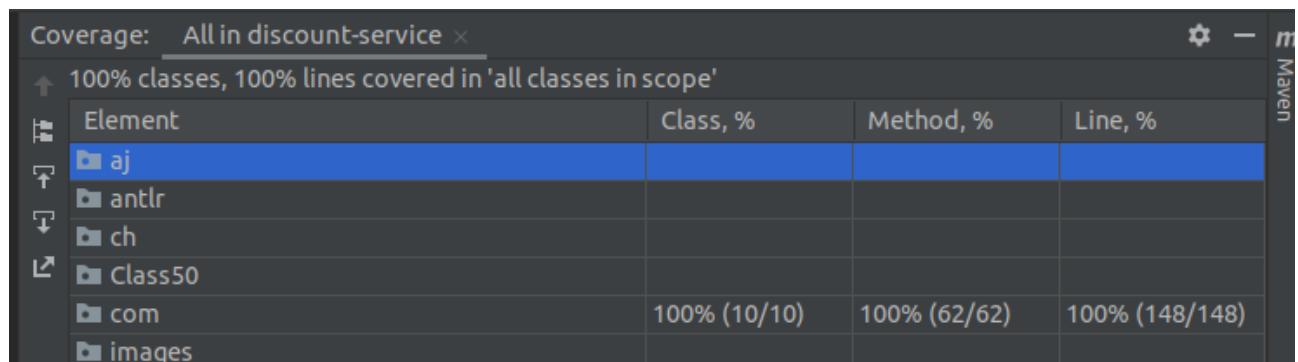
test coverage:



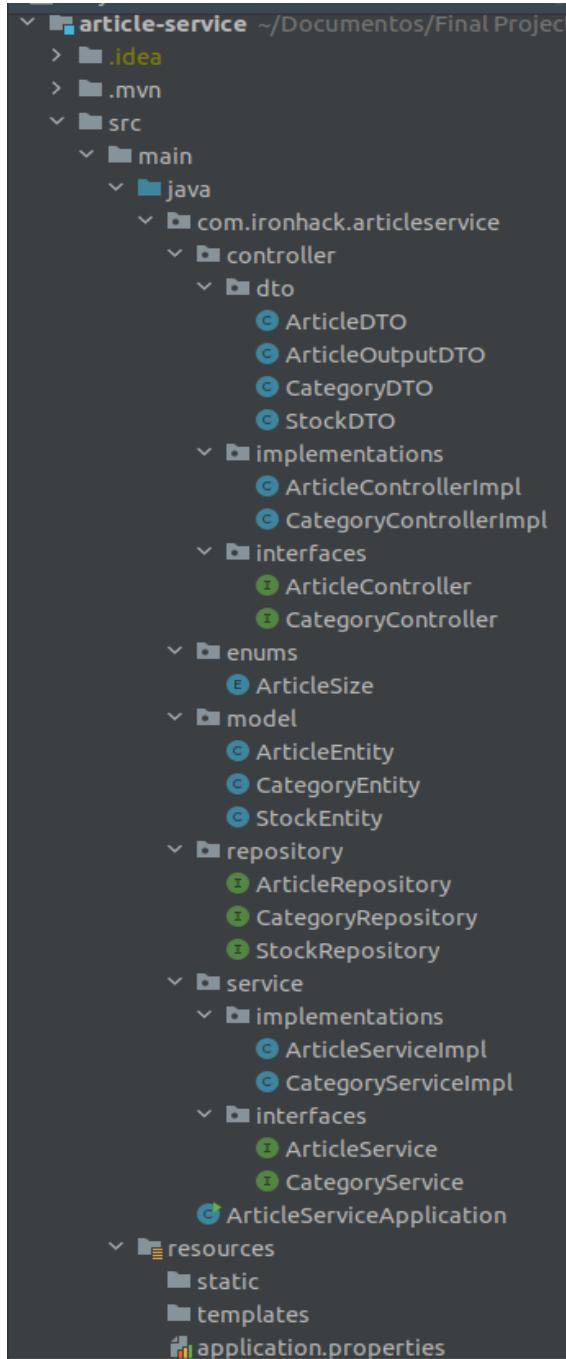
discount-service microservice



test coverage:



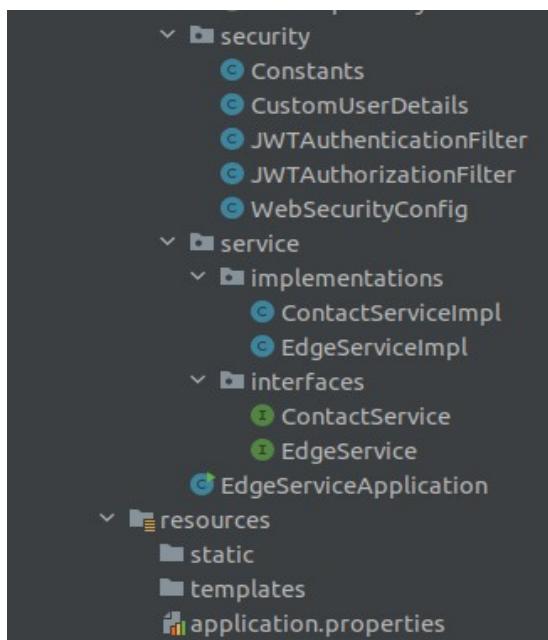
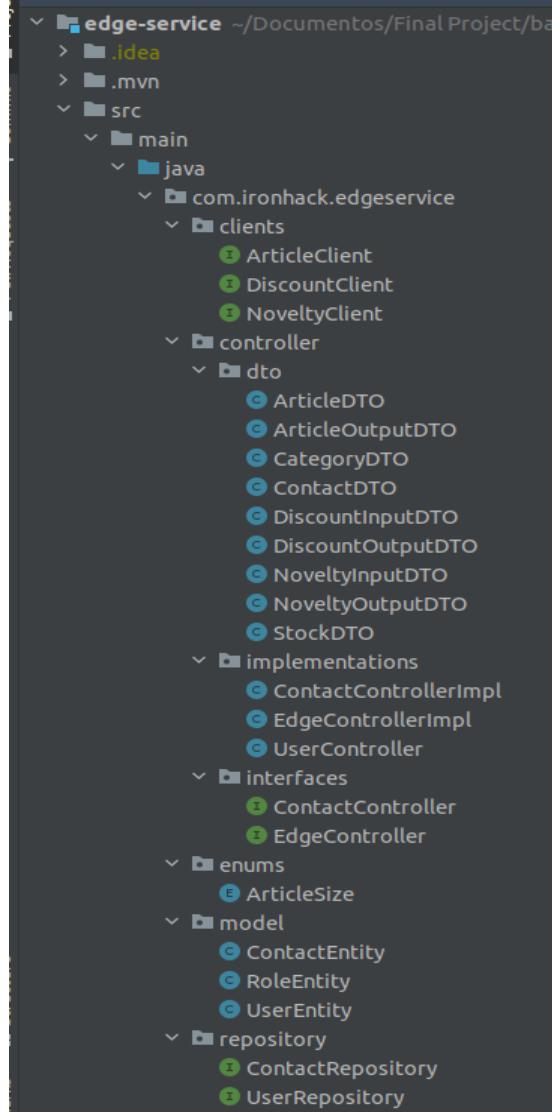
article-service microservice



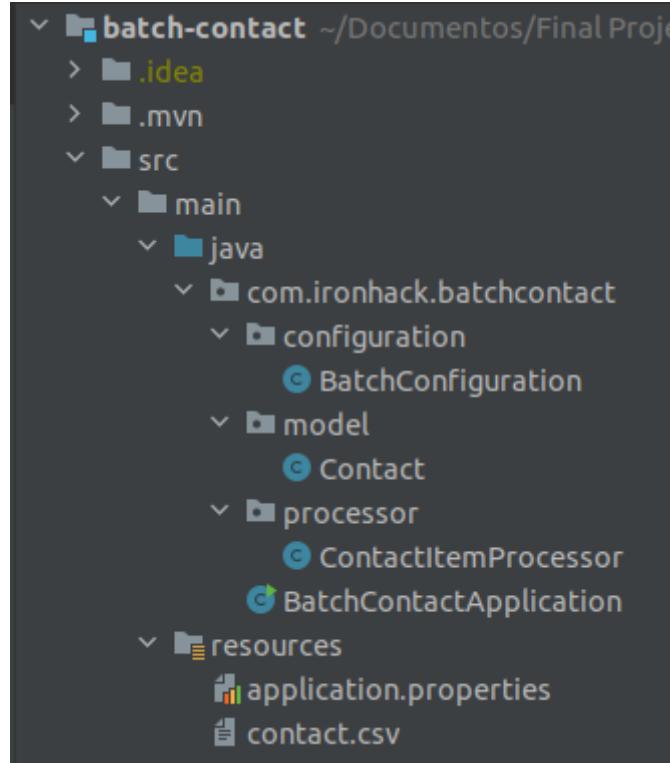
test coverage:

Coverage: All in article-service			
Element	Class, %	Method, %	Line, %
aj			
antlr			
ch			
Class50			
com	100% (13/13)	100% (92/92)	100% (268/268)
ironhack			

edge microservice (with JWT security)

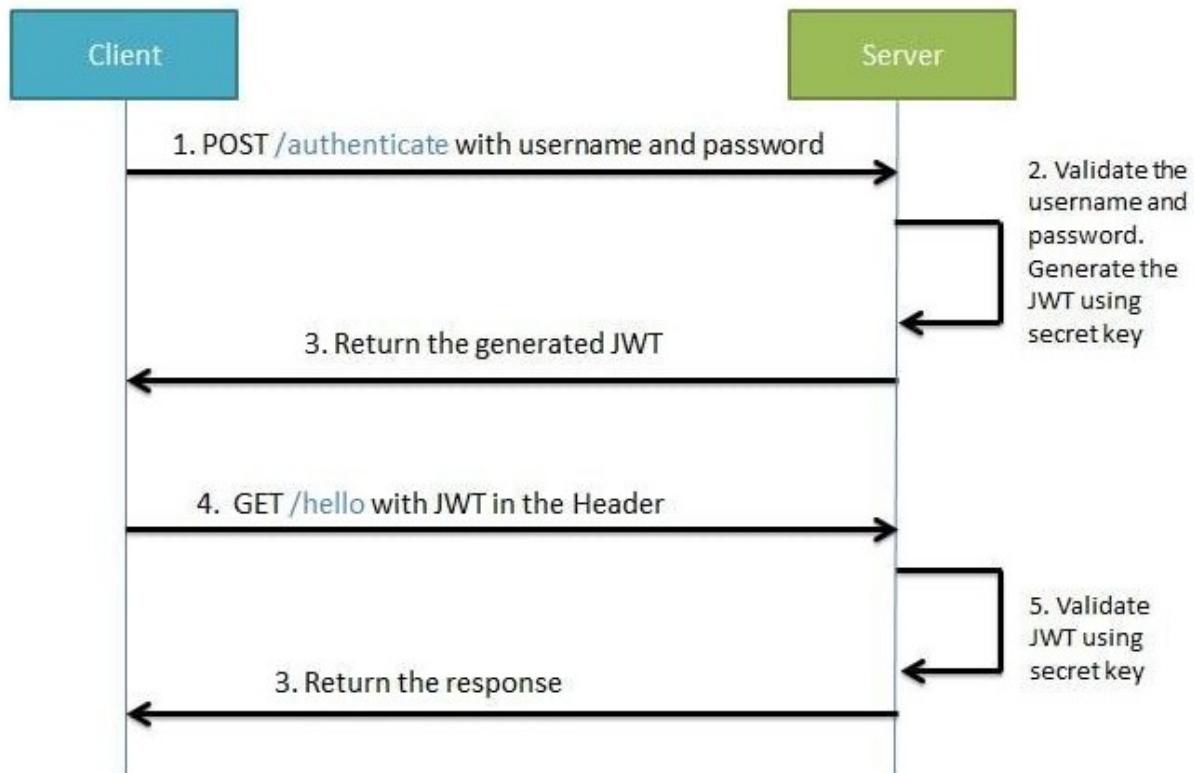


batch microservice



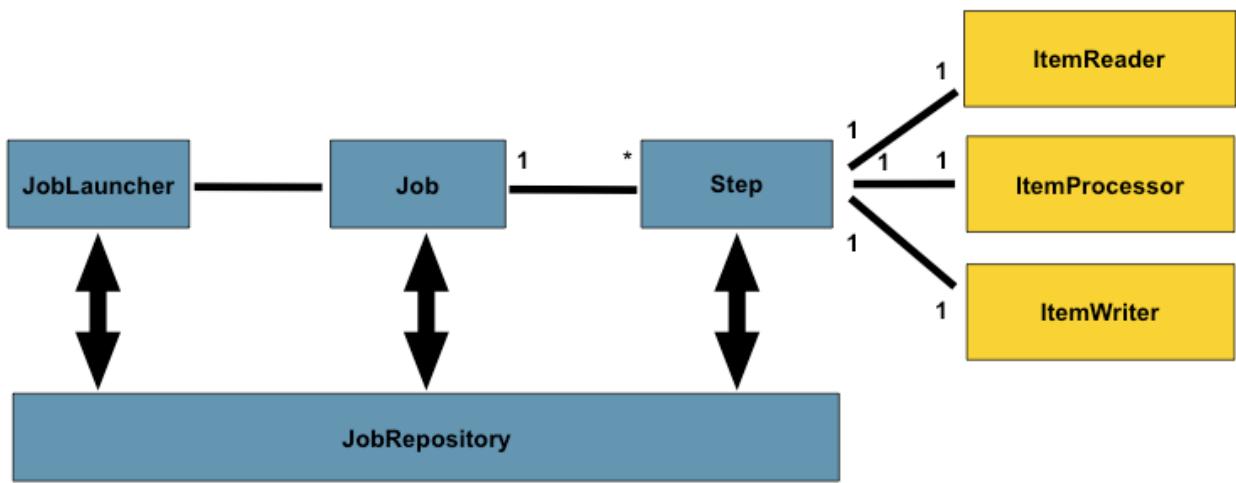
Additional Information

JWT Basics



<https://www.freecodecamp.org/news/how-to-setup-jwt-authorization-and-authentication-in-spring/>

Spring Batch



<https://docs.spring.io/spring-batch/docs/current/reference/html/spring-batch-intro.html#spring-batch-intro>