

E-commerce sample app

Express.js + PostgreSQL + EJS

Autor: Radosław Madzia

Dane do logowania:

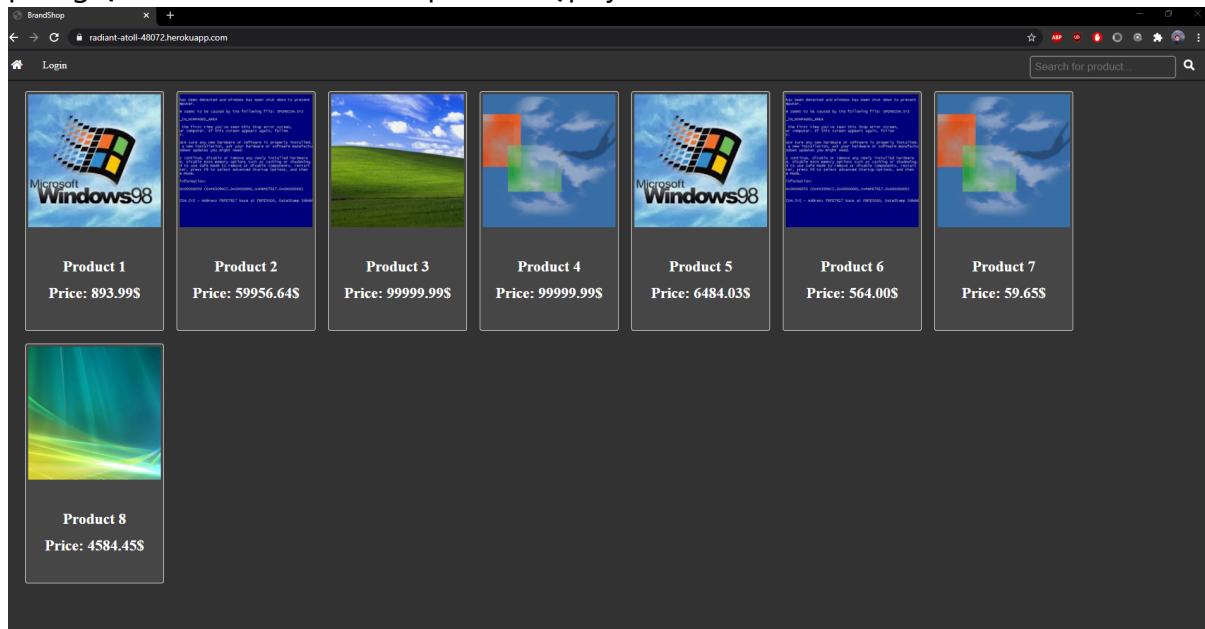
Konto administratora : admin@admin.com (<mailto:admin@admin.com>) Hasło: AdminPass42

Konto użytkownika : test@user.com (<mailto:test@user.com>) Hasło: AdminPass42

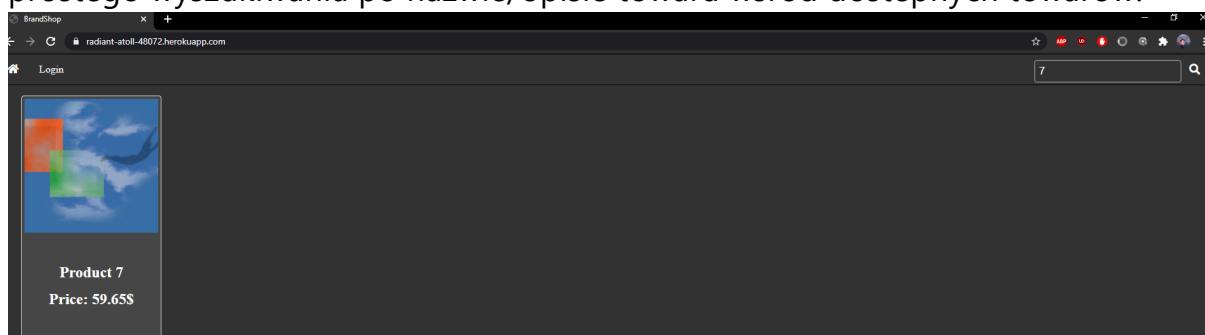
Główne przypadki użycia

Aplikacja realizuje następujące przypadki użycia:

- Użytkownik anonimowy ma możliwość:
 - przeglądania zawartości sklepu (dostępnych towarów):



- prostego wyszukiwania po nazwie/opisie towaru wśród dostępnych towarów:



- przeglądania szczegółów dotyczących dostępnych towarów:



- utworzenia nowego konta:

Email
Enter Username

Password
Enter Password

Login

Create account

Email
Enter email

Create Account

Cancel and < back

Email
test3@user.com

Password
Enter Password

Confirm password
Confirm Password

Name
Enter name

Surname
Enter surname

Phone number
Enter phone number

Postal code
Enter postal code _ _ _ _

City
Enter city

Delivery address
Enter delivery address

[Create Account](#)

[Cancel and !\[\]\(a1abaf3a019cde91b9bedfeab4d07b96_img.jpg\)](#)

Email
test3@user.com

Password
.....

Confirm password
.....

Name
testUser3

Surname
testUser3

Phone number
465416546

Postal code
56-545

City
testUser3

Delivery address
testUser3

[Create Account](#)

[Cancel and !\[\]\(b2e4fdfff449d4f3b37967de2febc0d3_img.jpg\)](#)

- Użytkownik posiadający konto ma uprawnienia użytkownika anonimowego rozszerzone o możliwość:
 - zalogowania się:

Email
test3@user.com

Password
.....

[Login](#)

[!\[\]\(1180f6161c4beedc69d6e37d66329f59_img.jpg\) Create account](#)

- o natychmiastowego zamówienia przeglądanego produktu w trakcie przeglądania zawartości:

Product 1

Product Available, Price: 893.99\$

Microsoft Windows 98

Add to cart Buy Now

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint

Product 1	1	893.99\$
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Shipping information

Contact Email
test3@user.com

Name
testUser3

Surname
testUser3

Contact phone
465416546

Postal code
56-545

City
testUser3

Delivery address
testUser3

- o dodania towaru do koszyka w trakcie przeglądania zawartości:

Product 2

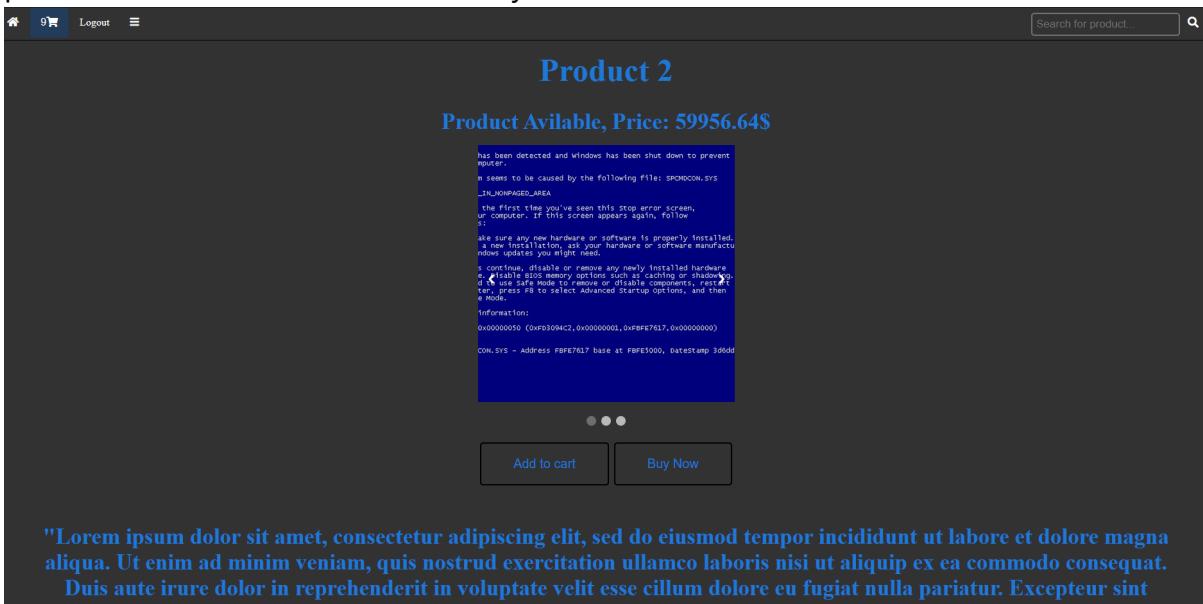
Product Available, Price: 59956.64\$

has been detected and Windows has been shut down to prevent damage to your computer.
It seems to be caused by the following file: SPONCON.SYS
_IN_NOPAGED_AREA
the first time you've seen this stop error screen, or if your computer restarts again, follow these steps:
1: make sure any new hardware or software is properly installed.
2: if you recently installed new hardware or software, remove it and see if the problem continues.
3: if you're not sure what's wrong, use Safe Mode to remove or disable components, restart your computer, and then press F8 to select Advanced Startup Options, and then choose Safe Mode.
Information:
0x00000000 (0x#00094C2,0x00000001,0xFBF7E717,0x00000000)
CON.SYS - Address FBF7E717 base at FBFE5000, timestamp 3dddd

Add to cart Buy Now

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint

- o podsumowania zamówienia z koszyka:

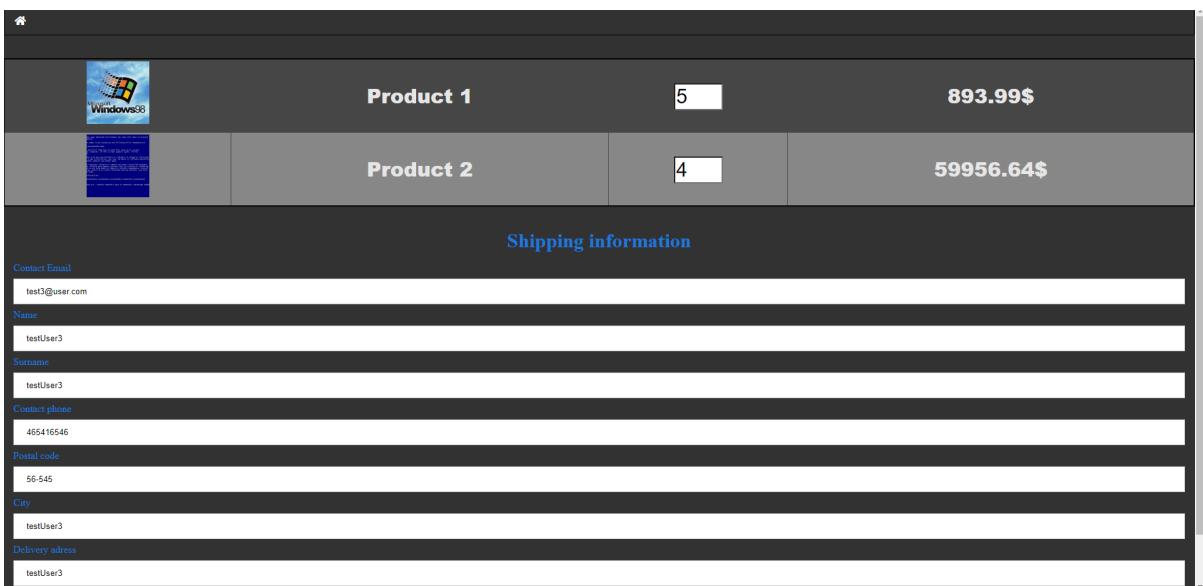


Product 2

Product Available, Price: 59956.64\$

This screen shows a product page for 'Product 2' with a price of 59956.64\$. Below the product image is a large blue error message box containing technical details about a system error. At the bottom are 'Add to cart' and 'Buy Now' buttons.

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint

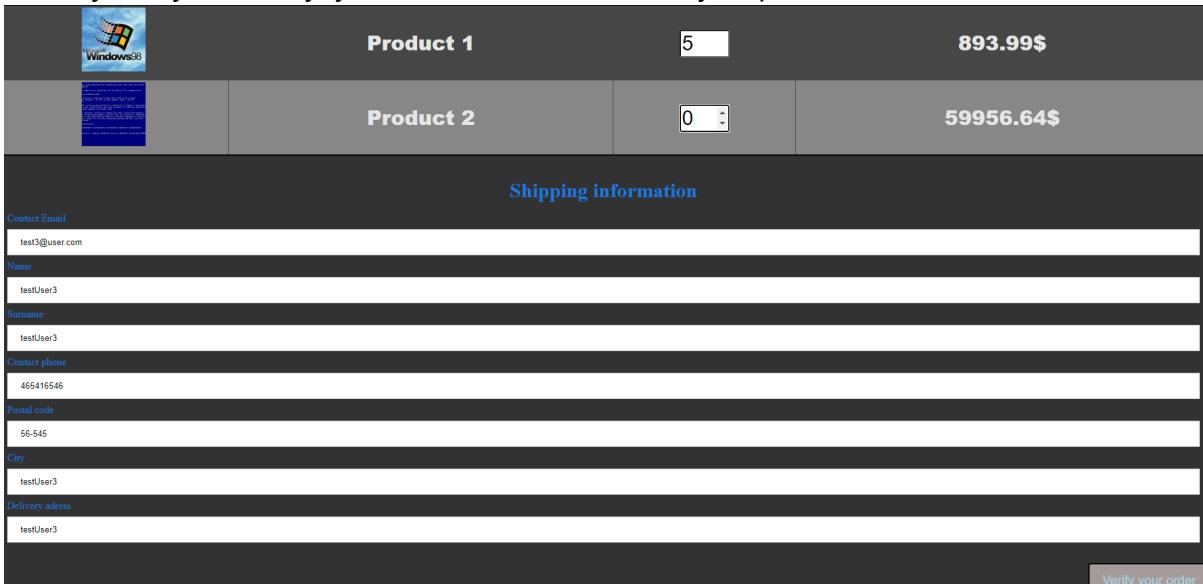


Product	Quantity	Price
Product 1	5	893.99\$
Product 2	4	59956.64\$

Shipping information

Contact Email: test3@user.com
Name: testUser3
Surname: testUser3
Contact phone: 465416546
Postal code: 56-545
City: testUser3
Delivery address: testUser3

- o zmiany danych do wysyłki oraz ilości zamawianych przedmiotów:



Product	Quantity	Price
Product 1	5	893.99\$
Product 2	0	59956.64\$

Shipping information

Contact Email: test3@user.com
Name: testUser3
Surname: testUser3
Contact phone: 465416546
Postal code: 56-545
City: testUser3
Delivery address: testUser3

Verify your order

- o weryfikacji, poprawy i złożenia zamówienia:

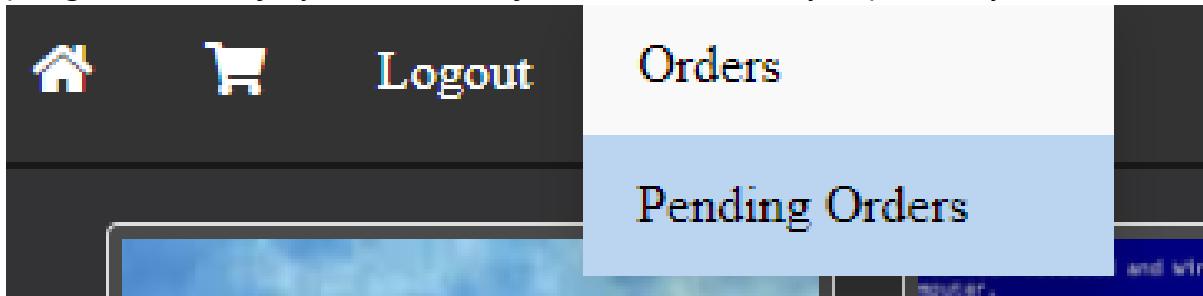
	Product 1	5	893.99\$	4469.95\$
Total: 4469.95\$				
Shipping information				
Contact Email: test3@user.com				
Recipient Name: testUser3				
Recipient Surname: testUser3				
Contact Phone: 465416546				
City: testUser3				
Postal Code: 56-545				
Delivery Address: testUser3				
Place your order				

	Product 1	5	893.99\$	
	Product 2	0	59956.64\$	
Shipping information				
Contact Email test3@user.com				
Name testUser3				
Surname testUser3				
Contact phone 465416546				
Postal code 56-545				
City testUser3				
Delivery address testUser3				
Verify your order				

	Product 1	5	893.99\$	4469.95\$
	Product 2	6	59956.64\$	359739.84\$
Total: 364209.79\$				
Shipping information				
Contact Email: test3@user.com				
Recipient Name: testUser3				
Recipient Surname: testUser3				
Contact Phone: 465416546				
City: testUser3				
Postal Code: 56-545				
Delivery Address: testUser3				
Place your order				

  Logout 				
Product name	Quantity	Price per item	Subtotal	
Product 1	5	893.99\$	4469.95\$	
Product 2	6	59956.64\$	359739.84\$	
Total: 364209.79\$				
Order is pending				
Shipping information				
Contact Email: test3@user.com				
Recipient Name: testUser3				
Recipient Surname: testUser3				
Contact Phone: 465416546				
City: testUser3				
Postal Code: 56-545				
Delivery Address: testUser3				

- o podglądu oczekujących na realizację zamówień złożonych przez użytkownika:



  Logout 		
Order Details	Date of submission: 2021-02-07 16:22:03	Order is pending
Order Details	Date of submission: 2021-02-07 16:14:37	Order is pending

- o podglądu wszystkich zamówień złożonych przez użytkownika:

The screenshot shows a dark-themed user interface. On the left is a sidebar with three icons: a house (Home), a shopping cart (Cart), and the word 'Logout'. To the right of the sidebar is a light blue header bar with the word 'Orders' in bold black text. Below the header is a white box containing the text 'Pending Orders' in a larger font. At the very bottom of the page, there is a large blue banner with a white message: 'An error has occurred. This error may be caused by the server or your network connection.'.

	Date of submission: 2021-02-07 16:37:05	Order is closed
Order Details	Date of submission: 2021-02-07 16:22:03	Order is pending
Order Details	Date of submission: 2021-02-07 16:14:37	Order is pending

- o podglądu szczegółów zamówień złożonych przez użytkownika:

próba podglądu zamówienia innego użytkownika kończy się przekierowaniem na stronę główną

The screenshot shows a dark-themed user interface. On the left is a sidebar with three icons: a house (Home), a shopping cart (Cart), and the word 'Logout'. The main area contains three identical-looking boxes, each with a blue header bar and the text 'Order Details' in white. These boxes overlap each other, suggesting they are part of a modal or a complex UI element.

Product name	Quantity	Price per item	Subtotal
Product 8	4	4584.45\$	18337.80\$
Product 2	1	59956.64\$	59956.64\$
Total: 78294.44\$			

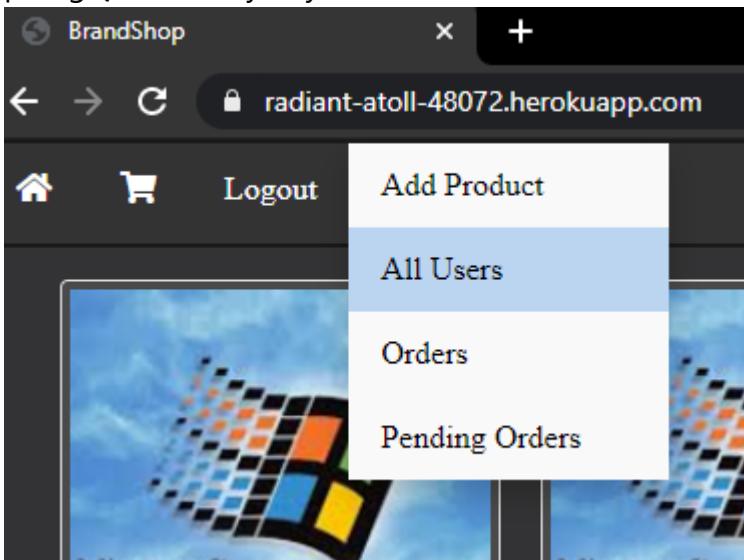
Order is closed

Shipping information

Contact Email: test3@user.com
 Recipient Name: testUser3
 Recipient Surname: testUser3
 Contact Phone: 465416546
 City: testUser3
 Postal Code: 56-545
 Delivery Address: testUser3

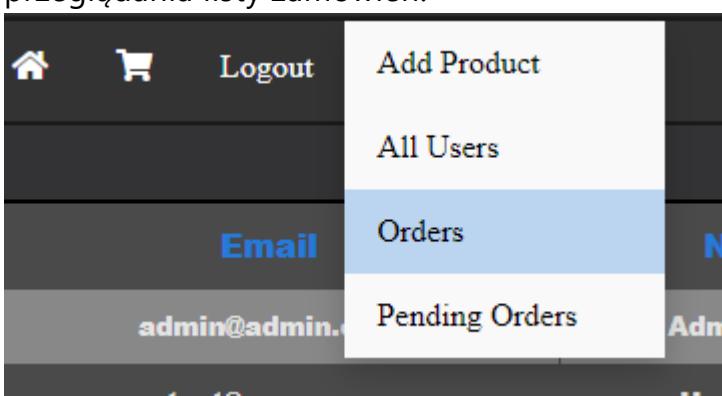
- Administrator ma uprawnienia użytkownika zalogowanego rozszerzone o możliwość:

- przeglądania listy użytkowników i ich ról:

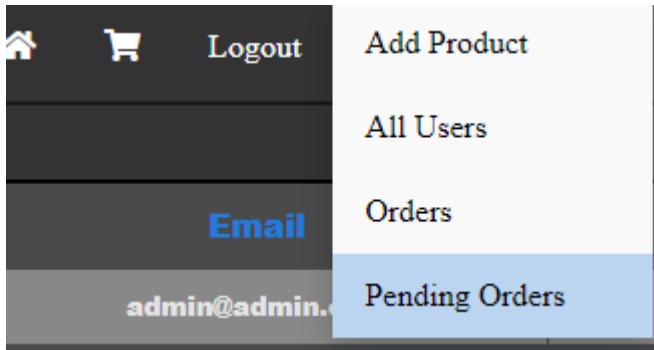


List Of Registered Users					
Email	Name	Surname	Phone number	Adress	Has Admin Rights
admin@admin.com	AdminName	AdminSurname	465496461	50-243 Wrocław, DeliveryAddress4/2,2	true
test@user.com	UserName	UserName	465465165	45-455 City_Adress4/2/2	false
test2@user.com	User2	User2	151651631	45-554 City2_Adress2	false
test3@user.com	testUser3	testUser3	465416546	56-545 testUser3 testUser3	false

- przeglądania listy zamówień:



Order Details	Date of submission: 2021-02-05 21:02:11	Order is closed	Contact phone: 151651631	Constat email: test2@user.com	Client name: User2
Order Details	Date of submission: 2021-02-05 21:04:43	Order is pending	Contact phone: 245651545	Constat email: test2@user.com	Client name: recipient-Name
Order Details	Date of submission: 2021-02-05 21:05:23	Order is pending	Contact phone: 151651631	Constat email: test2@user.com	Client name: User2
Order Details	Date of submission: 2021-02-05 21:06:17	Order is closed	Contact phone: 465465165	Constat email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-05 21:07:00	Order is pending	Contact phone: 465465165	Constat email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-05 21:21:39	Order is pending	Contact phone: 465465165	Constat email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-05 21:22:40	Order is pending	Contact phone: 465465165	Constat email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-05 21:23:53	Order is pending	Contact phone: 465465165	Constat email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-07 16:14:37	Order is pending	Contact phone: 465416546	Constat email: test3@user.com	Client name: testUser3
Order Details	Date of submission: 2021-02-07 16:22:03	Order is pending	Contact phone: 465416546	Constat email: test3@user.com	Client name: testUser3
Order Details	Date of submission: 2021-02-07 16:37:05	Order is closed	Contact phone: 465416546	Constat email: test3@user.com	Client name: testUser3



Orders					
	Date of submission: 2021-02-05 21:04:43	Order is pending	Contact phone: 245651545	Constatct email: test2@user.com	Client name: recipient-Name
Order Details	Date of submission: 2021-02-05 21:05:23	Order is pending	Contact phone: 151651631	Constatct email: test2@user.com	Client name: User2
Order Details	Date of submission: 2021-02-05 21:07:00	Order is pending	Contact phone: 465465165	Constatct email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-05 21:21:39	Order is pending	Contact phone: 465465165	Constatct email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-05 21:22:40	Order is pending	Contact phone: 465465165	Constatct email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-05 21:23:53	Order is pending	Contact phone: 465465165	Constatct email: test@user.com	Client name: UserName
Order Details	Date of submission: 2021-02-07 16:14:37	Order is pending	Contact phone: 465416546	Constatct email: test3@user.com	Client name: testUser3
Order Details	Date of submission: 2021-02-07 16:22:03	Order is pending	Contact phone: 465416546	Constatct email: test3@user.com	Client name: testUser3

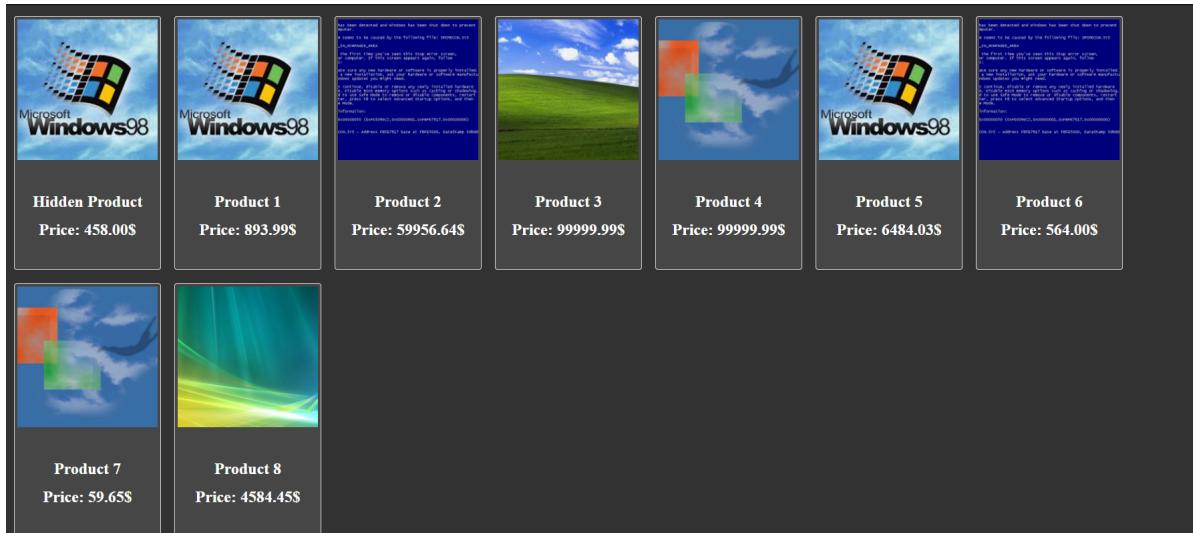
- zamykania otwartych zamówień:

Orders				Search for product...
Product name	Quantity	Price per item	Subtotal	
Product 4	5	99999.99\$	499999.95\$	Total: 499999.95\$
Order is pending				
Close Order				
Shipping information				

Orders			
Product name	Quantity	Price per item	Subtotal
Product 4	5	99999.99\$	499999.95\$
Total: 499999.95\$			
Order is closed			
Shipping information			

Contact Email: test@user.com

- przeglądania oraz wyszukiwania wszystkich towarów łącznie z produktami niedostępnyimi:



Screenshot of a web browser showing a search result for 'hidd'. The first result is a link to a page titled 'Hidden Product' with a price of 458.00\$.

Hidden Product

Product Unavailable, Price: 458.00\$

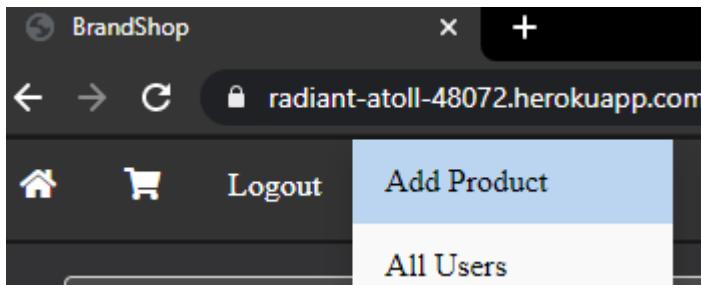


[Edit](#)

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“Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.”

- dodawania towarów:



Add Product

Logout

Add Product

All Users

Product name
Product To Delete

Verify

Add Product

Logout

Add Product

Product name
Product To Delete

Product description
Enter product description

Check if product is available for purchase

Product price
Enter product price (default 999999.99)

Nie wybrane pliku

Verify

Add Product

Logout

Add Product

Product name
Product To Delete

Product description
Enter product description

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consecetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magna aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem cum sajus quo voluptas nulla paratur?"

Check if product is available for purchase

Product price
Enter product price (default 999999.99)

Liczba plików: 2

Verify

Logout Search for product...

Product name: Product To Delete

Product description: "Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consecetur, adipisci velit. sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariat?"

Product availability: Product is unavailable

Product Price: 99999.99

Select thumbnail for product, otherwise first will be picked by default



[Edit Values](#) [Add Product](#)

Logout Search for product...

Product To Delete

Product Unavailable, Price: 99999.99\$



Edit

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- modyfikacji towarów:

Logout Search for product...

Product To Delete

Product Unavailable, Price: 99999.99\$



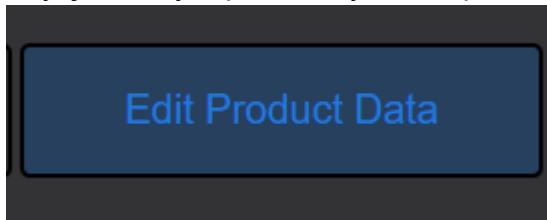
Edit

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem

Edit Product +

[Back To Product](#) [Edit Product Data](#) [Change thumbnail](#) [Add Photos](#) [Delete Photos](#) [Delete Product](#)

- edycji nazwy/opisu/ceny/dostępności:



Product name

Product description

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consetetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?"

Check if product is available for purchase

Product price

Save

Logout

Product To Delete Changed Name

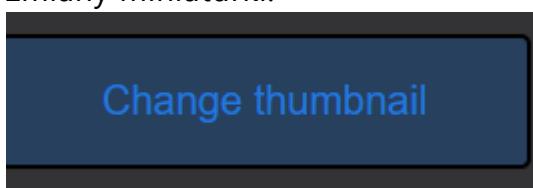
Product Available, Price: 56.54\$

Add to cart Buy Now

Edit

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim

- zmiany miniaturki:



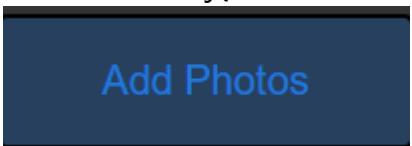
Select thumbnail for product, otherwise first will be picked by default

The screenshot shows a user interface for selecting a product thumbnail. At the top, a message reads: "Select thumbnail for product, otherwise first will be picked by default". Below this, there are two images: a blue Windows-style stop error screen on the left and a green landscape image on the right. A yellow box highlights the stop error screen. At the bottom, a large button with the text "Save change" is visible.

The screenshot shows a product detail page. At the top, it says "Product To Delete Changed Name" and "Product Available, Price: 56.54\$". Below the product name is a blue Windows-style stop error screen. At the bottom, there are three buttons: "Add to cart", "Buy Now", and "Edit". Above the "Edit" button, there are two small circular dots.

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim

- dodawania zdjęć:



The screenshot shows a file upload interface. On the left, a button says "Add photos to product". On the right, there is a text input field with the placeholder "Wybierz pliki" and a label "Liczba plików: 3".

Select thumbnail for product, otherwise first will be picked by default



[Save change](#)

Product To Delete Changed Name

Product Available, Price: 56.54\$



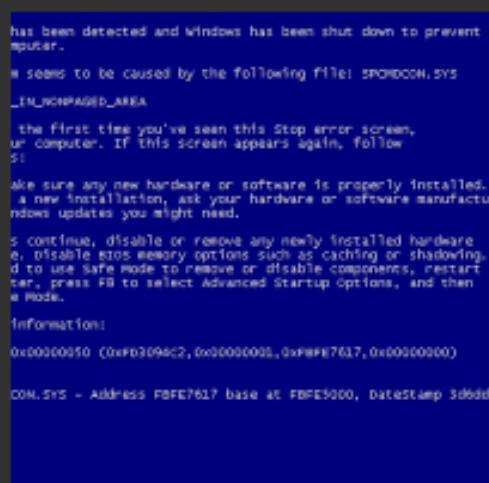
[Add to cart](#)

[Buy Now](#)

[Edit](#)

- usuwanie zdjęć (jeżeli jest więcej niż jedno):

[Delete Photos](#)



Delete Selected

Cancel

Select thumbnail for product, otherwise first will be picked by default



has been detected and Windows has been shut down to prevent damage.

It seems to be caused by the following file: SPONDON.SYS
_EN_NONPAGED_AREA

The first time you've seen this Stop error screen, press F4 to continue. If this screen appears again, follow the steps below:

Make sure any new hardware or software is properly installed. If a new installation, ask your hardware or software manufacturer for updates you might need.

If continue, disable or remove any newly installed hardware or disable BIOS memory options such as caching or shadowing. To use Safe Mode to remove or disable components, restart your computer, press F8 to select Advanced Startup Options, and then choose Safe Mode.

Information:

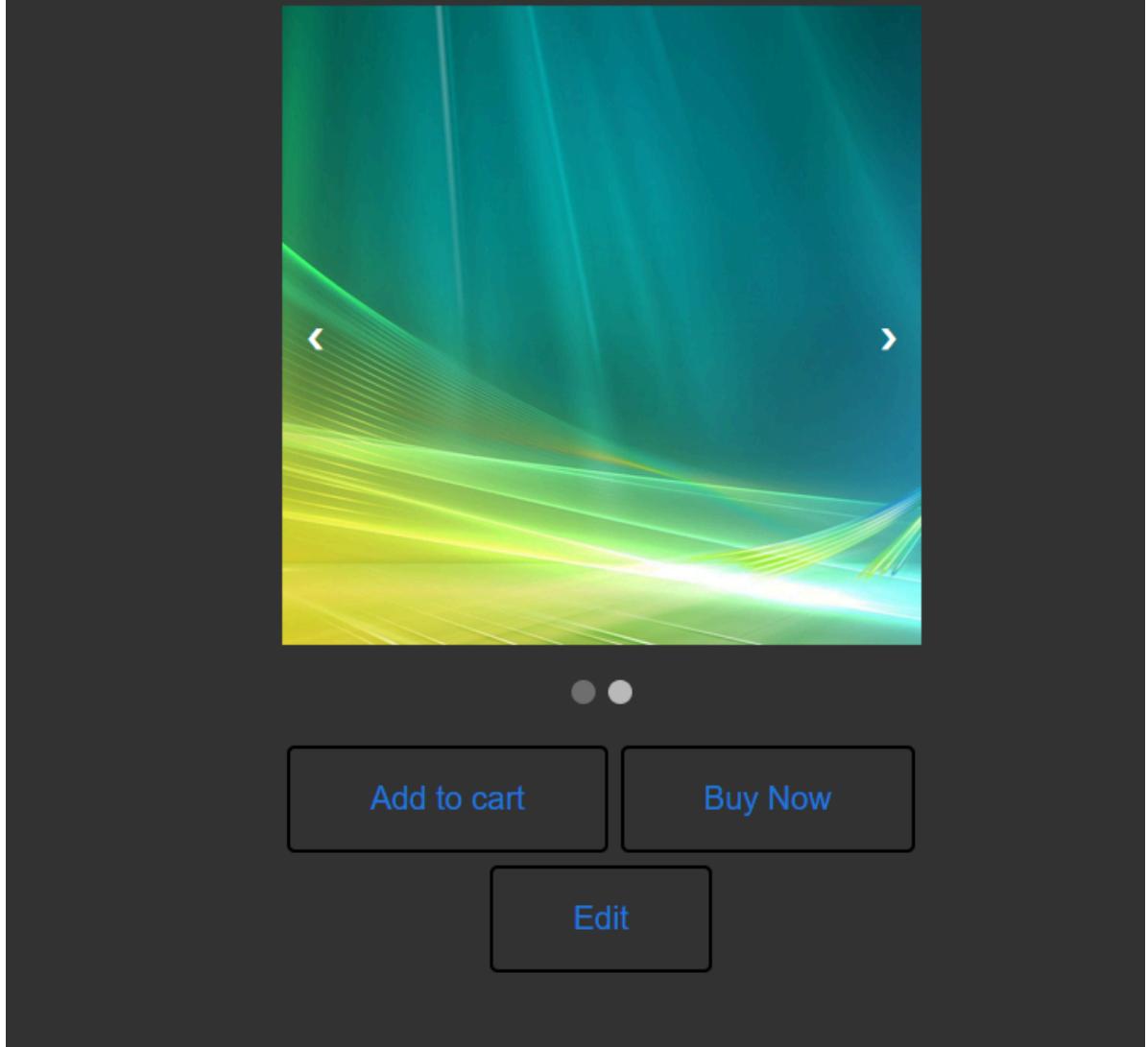
0x00000050 (0xF03094C2, 0x00000000, 0xPFFE7617, 0x00000000)

CON.SYS - Address PFFE7617 base at F0FE5000, datestamp 3d6dd

Save change

Product To Delete Changed Name

Product Available, Price: 56.54\$



- usuwania towarów:

Delete Product

Krótki opis aplikacji:

Aplikacja node.js + Express z bazą PostgreSQL i wykorzystaniem Sequelize ORM () oparta o strukturę MVC.

Punktem startowym aplikacji jest plik app.js;

Wykorzystuję moduł ejs do renderowania widoków zapisanych w formacie .html;

W sesji przechowuję dane takie jak: email, id, czy użytkownik jest administratorem, koszyk.

Modele (folder models) opisują tabele w bazie. W pliku index.js zawarte jest połączenie z bazą oraz relacje między tabelami.

Kontrolery (folder controllers) odpowiadają za zapis do oraz odczyt danych z bazy.

Routing (folder routing) odowiadają za obsługę danych na endpointach aplikacji.

Widoki (folder views) wszystkie widoki.

Middleware (folder middleware):

- authorize.js zawiera metody autoryzacji dostępu w oparciu o prawa użytkownika.
- validate.js zawiera metody walidacji danych wprowadzanych przez użytkownika.
- addProduct.js/editProduct.js zawierają metody pomocnicze dla dodawania/edykcji produktów.

Folder lib:

- messages.js zawiera stałe wiadomości przekazywane do widoków w przypadku różnych zdarzeń, między innymi braku autoryzacji.
- order.js zawiera metody pomocnicze dla orderRouting.js.
- sessionCart.js zawiera metody pomocnicze orderRouting.js oraz productRouting.js.

Pliki statyczne (folder static) zawiera wszystkie css oraz czcionki.

Nieszablonowe podejście

W przypadku przechowywania obrazów, zamiast wykorzystania Azure Blob Storage bądź przechowywania plików bezpośrednio na serwerze zdecydowałem się na wykorzystanie typu bytea w PostgreSQL (BLOB w Sequalize).

Dzięki wykorzystaniu pakietu sharp (<https://www.npmjs.com/package/sharp>) zmieniam rozmiar uploadowanych obrazów na 400x400px oraz format na png a następnie konwertuję ten bufor na string z kodowaniem base64 z dodanymi metadanymi i zapisuję do w bazie.

W przypadku odczytu z bazy, buffor wystarczy jedynie skonwertować na string i umieścić jako src w tagu img (przykład w views/productDetails.html).

Pierwsze uruchomienie

W przypadku braku dump'a bazy należy stworzyć bazę z credential'ami z pliku config/dbdev.config.js oraz odkomentować funkcję zawartą w liniach 38-40 w pliku models/index.js służącą do usunięcia jeżeli istnieją tabele i stworzenia tabel odpowiadających modelom.

W przypadku przywrócenia bazy z pliku devDbDump.sql

```
>psql  
postgres=# CREATE DATABASE weppoappdev;  
postgres=# CREATE USER weppoapp WITH PASSWORD 'aFk8@d12';  
postgres=# grant all privileges on database weppoappdev to weppoapp;  
postgres=# \q
```

```
>psql -U weppoapp -d weppoappdev -f .\devDbDump.sql
```

Następnie

```
>npm install  
>npm start
```

Domyślny port, na którym aplikacja prowadzi nasłuch, to 3000.