Budapest Hotels HMS & ERP

Presentation by Adam Welsch

Introduction

- The implemented project implements a hotel website and its reservation system, as well as the management of its products. The reason for choosing this topic is a request from a friend, as he is currently building a hotel-pension in the Balaton Uplands. As requested, our priority was to create a full-stack web.
- At his request, we saw the project as a reference task for him, as we all know that in today's world it is extremely easy to create and publish a SPA or any website template with a WordPress template, but real-time bookings are available at airbnb.com, szallas.hu and Booking.com will charge you at least 10% of the total booking price, not even the accommodation provider's profit.
- That's why most self-employed hotel owners today want their guests to be able to manage their bookings on their own website.
- This does not mean that they do not advertise on the main platforms and do not receive most of their bookings, but that they also want to rent their rooms on their own platforms without the costs of intermediaries. Therefore, it was key for us to manage bookings for administrator users, then for 'User' that is, guest users to manage their own bookings, and then we wanted the hotel's products to be managed on the web application.
- Product management is also done with live data on the website, and product data is also available for 3rd party applications and APIs.
- The administrator can add, modify, delete products and, as they perform any operation, logged-in users can see the website in real time.

Introduction

- This is also important because the prices of all modern stores are changing rapidly in today's world due to the sudden and high inflationary pressures and the devaluation of the Hungarian Forint, as Hungarian companies now import more than 60-70% of their products, i.e. in euros or are paid in dollars at the time of purchase for the goods. And if the forint weakens, Hungarian companies will have to pay more for the price in dollars, so they will be forced to increase the prices of products sold at home.
- Considering all this, it was important for us that the hotel owner / management / administrator should
 have a simple yet dynamic and real-time way to manage the hotel's products, especially as our future plans
 include expanding the hotel booking with additional features and product management to a smaller extent.
 Change to ERP (Enterprise Resource Planning).
- It is important to mention that in the world of Enterprise Resource Planning, ie ERP, the German company SAP SE has decades of experience, so we would not want to compete with conglomerates at this time but would target smaller hotels and boarding houses as potential future customers.

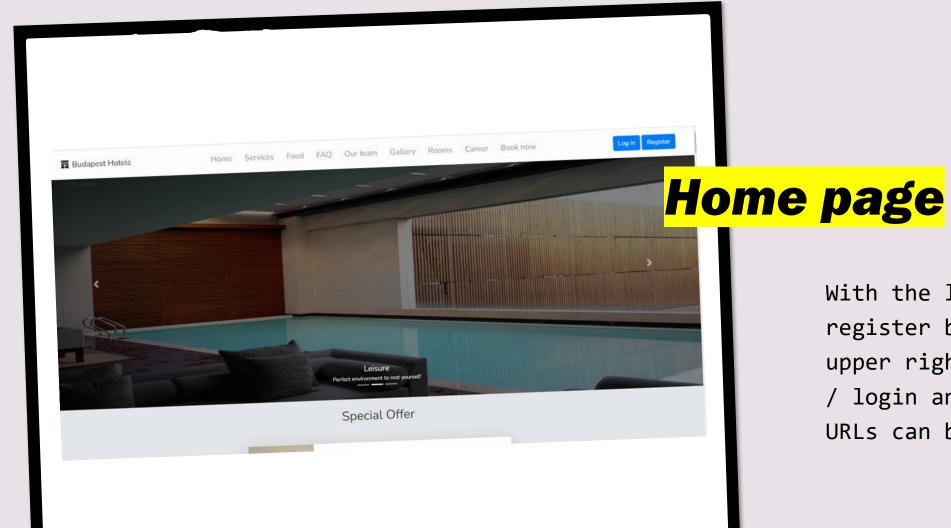
Introduction

• It is important to mention that the completed hotel project will serve as a kind of template for us in the future, as our plans include servicing the booking systems of hairdressers, artificial nails, car mechanics and doctor's offices and treating days as rooms in the hotel. hours we handle per server staff is not really a big difference for a developer.

•

- In light of all this, we logically chose Laravel, as we also studied the framework at length in the Curriculum for Back End Development in School Education.
- Laravel is a PHP-based and open source back-end framework used to create a wide range of custom web applications. It is a fully server-side framework that manages data using Model-View-Controller (MVC) design, which breaks down the application-backed architecture into logical parts.
- In our desktop application, with more than 70% of business users using Windows and an even higher percentage of individuals, we chose the .NET framework, a Microsoft product for Windows provided by the Visual Studio IDE.
- The current function of the desktop application is to collect product data with an Http client, process the json provided by the Laravel REST API and display the data provided by the API in a table, and then save the data in .csv format at the touch of a button.



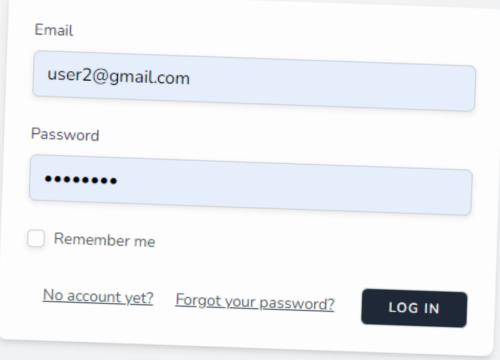


With the login or register buttons in the upper right corner, the / login and /register URLs can be reached

Log in

No account Yet? If
Clicked on it, it
redirects to ->
/register
In case user forgot
password the "Forgot your
password?" When it is
clicked, the / forgotpassword view appears:







Register

No account Yet? Click / register to go to Forgot your password? When you click, the / forgot-password view appears:



Forgot password

No account Yet? Click / register to go to Forgot your password? When you click, the / forgot-password view appears:



Forgot your password? No problem. Just let us know your email address and we will email you a password reset link that will allow you to choose a new one.

Email

EMAIL PASSWORD RESET LINK



Information on login/register/forgot password

- Email registration is required for both registration and password forgetting.
- Send email:
- After registration in the web app, the registration must be confirmed via email, a user can only use the program if he / she has verified his / her email address after registration, and password reset and recovery work via a link sent via email.
- We used MailTrap to test and use the email features.
- About Mailtrap:
- Mailtrap provides a fake SMTP server for the development team to test, view, share, and test e-mail sent from pre-production environments without the risk of spamming real customers.
- URL: https://mailtrap.io/

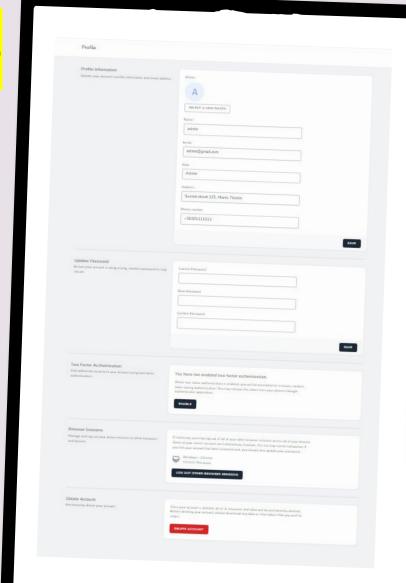


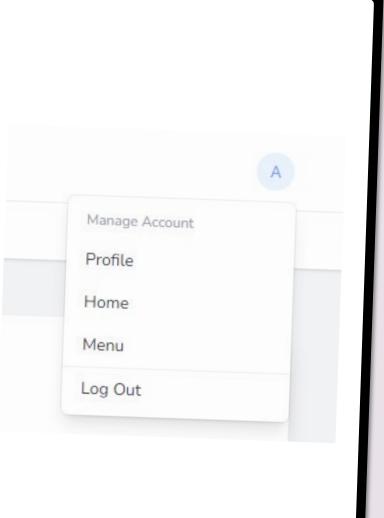
Information on login/register/forgot password

- In all cases, in the case of a new registration, make sure that the password must be at least 8 characters long, including letters, numbers and special characters, as well as a capital letter.
- Both URLs are actually a welcome page, meaning where users can get to know the hotel, view pictures and gather information about the hotel (by clicking on 'Gallery' in the navigation menu), about rooms (by clicking on 'Room' in the navigation menu), about the services (by clicking on 'Services' in the navigation menu), on food (by clicking on 'Food' in the navigation menu), frequently asked questions (by clicking on 'FAQ' in the navigation menu), on top management (by clicking on 'Our' in the navigation menu) Team '), book a room (by clicking' Book Now 'in the navigation menu).
- By clicking on 'Book now' you will either need to log in or register with email validation.
- For the Admin user, the following options are available:
- Click Profile in the navigation bar to access the profile settings:

/user/profile

- Here you can change your name, email address, home address and phone number in the profile of either Admin or a guest user.
- All users on this page can change their passwords.
- Down Users can turn on two-key authentication using the Google Authenticator App to scan a unique QR code and save recovery codes.
- In the container below, if several browser sessions are open, the user can log out of the other browsers.
- And last but not least, users can delete their own account according to GDPR.





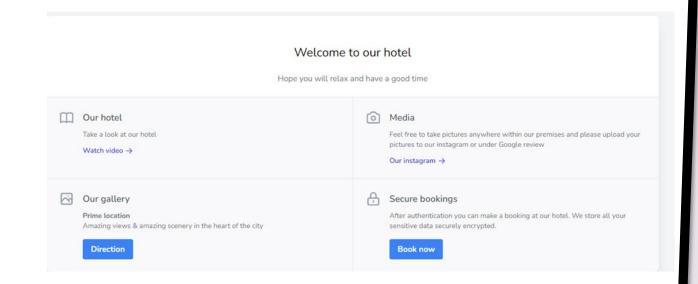


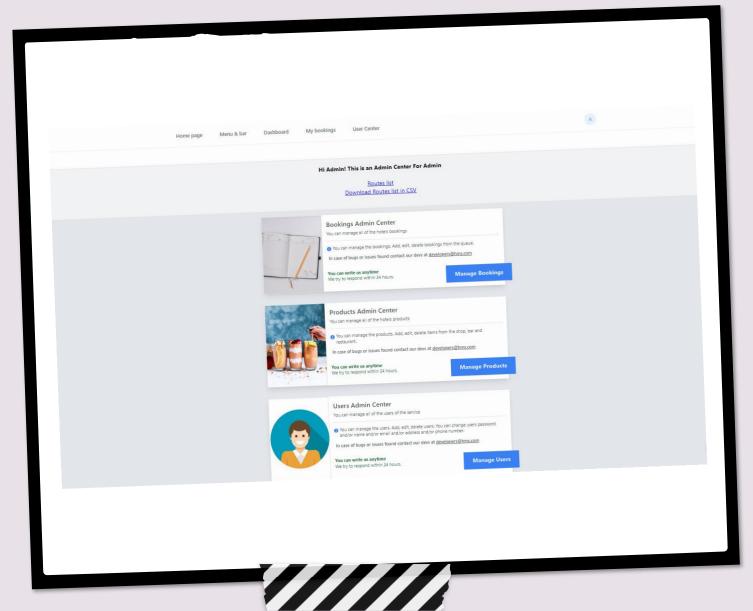
Logged in landing home page

- The home page is always the / user / home URI of the home page for logged in users, but this returns a different view based on whether the user has admin or user privileges.
- For Admin users, there are three containers here.
- One is responsible for transferring bookings (Bookings Admin Center container, i.e. / transactions path), the second is responsible for transferring products (Products Admin Center, i.e. / products path), and the third is responsible for transferring to users (Users Admin Center).
- At the top there is an admin message and two blue links, one showing all the routes in the program (Routes list) and the other (Download Routes list in CSV) downloading the program in .csv. all routes.
- In the navigation menu, the Home page takes you back to the logged-out home page, in which case the Dashboard icon will appear in the upper right corner of the logged out navigation menu instead of Login and Register as the user is logged in and if the user is in the Dashboard then click again in the logged in view and the user will be on the navbar in the / dashboard view.

Guest-user landing

- The dashboard view has a directional button (Google Maps redirect link) and a Book Now button where the user gets to the / my-bookings route where the logged in user can only book a room by clicking the New button.
- The media container Our instagram is transferring to Instagram, while the watch video is being transferred to YouTube, both appearing on a new page.





Admin landing

- Admin users can see the same logged in navigation bar as guest users
- Admin dashboard can be seen for admin users wher admins can do CRUD operations for users, products and bookings



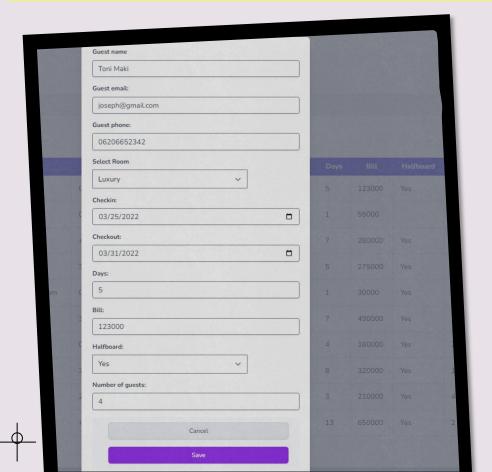


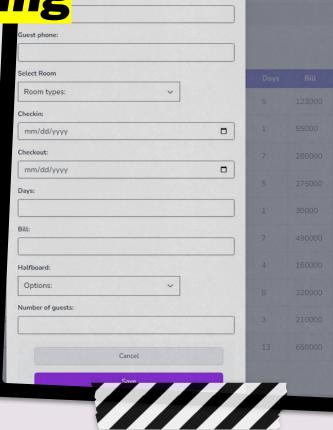
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		myadiamond@gmail.com	36201458964	Single	2022-04-26	2022-05-04	8	320000	Yes	1	
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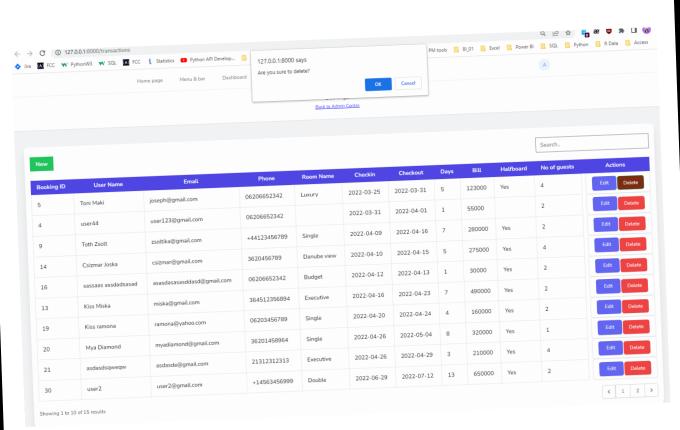
- Admin users can see the all the bookings on /transactions UR1
- Admin users can edit, delete and modify guests booking

Admin creating new booking

Admin editing bookings



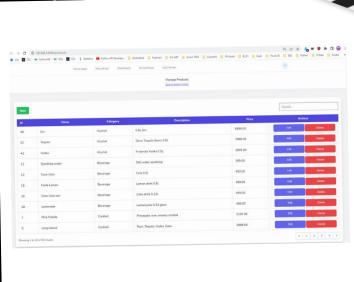




Admin delete booking

- After delete button clicked
- Admin has to confirm van again in order to delete unit confirmation deletion is prevented

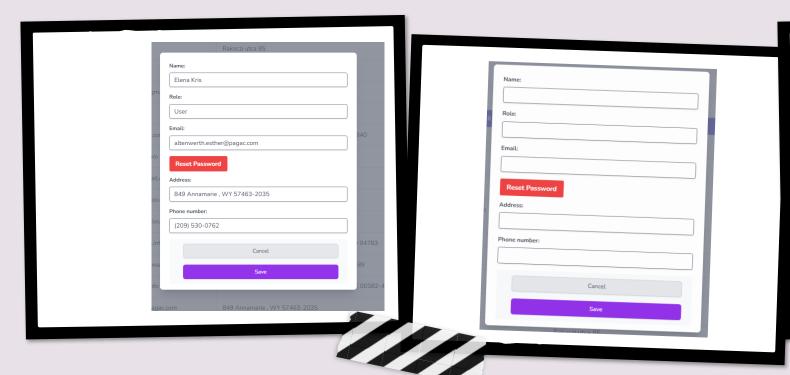


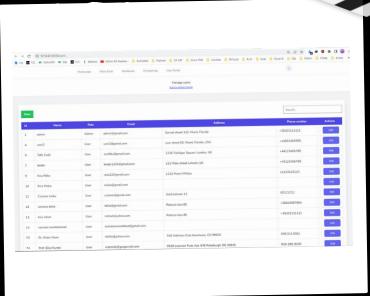


Admin creating new product

Admin editing product

Admin all products





Admin editing Admin user creation

Admin creating user

Admin all users

/jsonproducts

URI

- All product data is visible
- The format is json
- All in an arrray

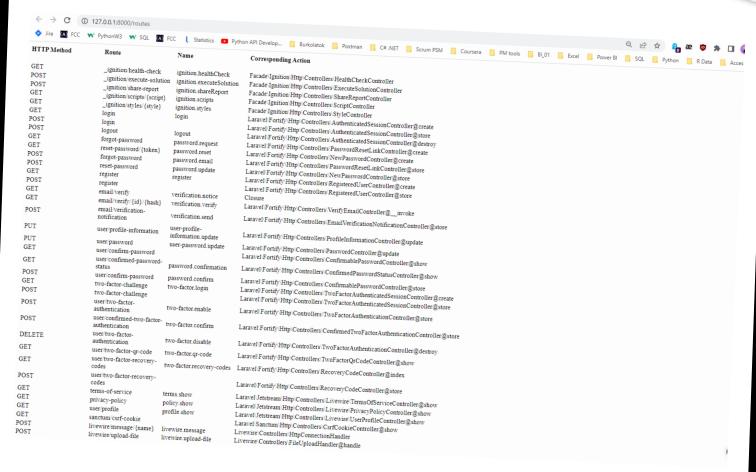


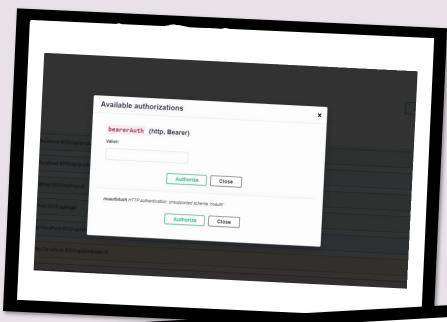


/routes

- All routes are visible for admin user
- The format is in a table
- Middleware is not shown







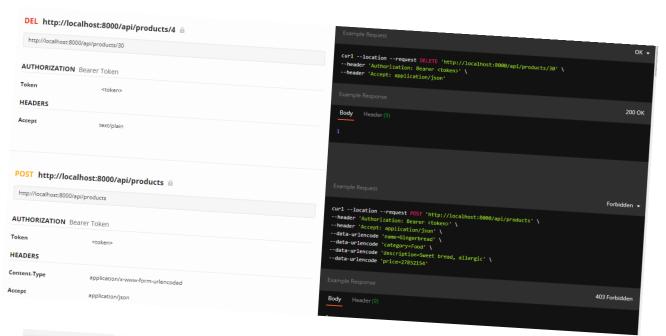


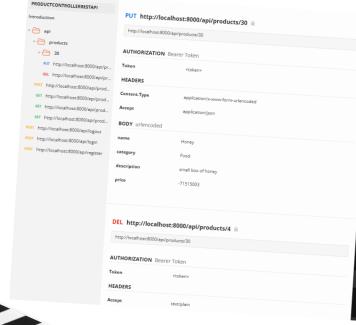
REST API

- Swagger documentation of REST API for product management
- Link:
- https://app.swaggerhub.com/apisdocs/wokres/product-controller rest/1.0.0
- Can be seen on web clicked above

REST API

- Postman documentation of REST API for product management
- Link:
- https://documenter.getpos tman.com/view/19126249/UV yxRZv2#ea026aee-00a1-4287-9517-85a8d58b8977
- Can be seen on web clicked above





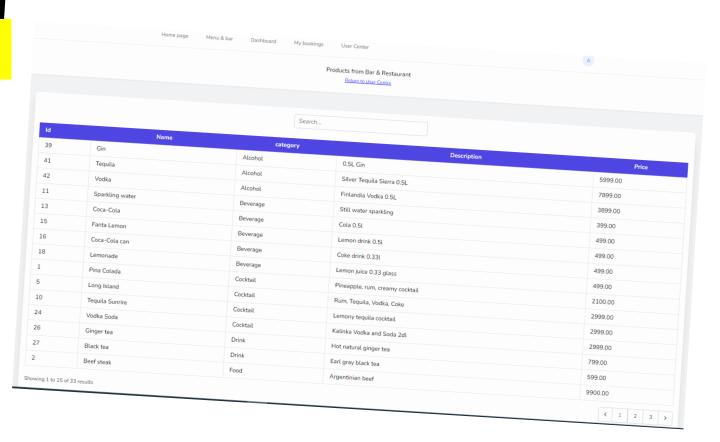


User view of

products without

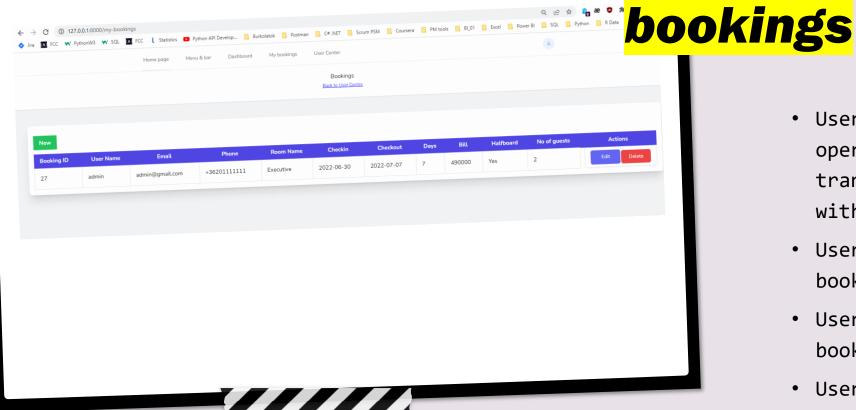
CRUD only **READ**

- Users can only search
- Pagination active
- Users can only GET products cannot DELETE / PUT / POST
- They can search for name, category & description in the search bar





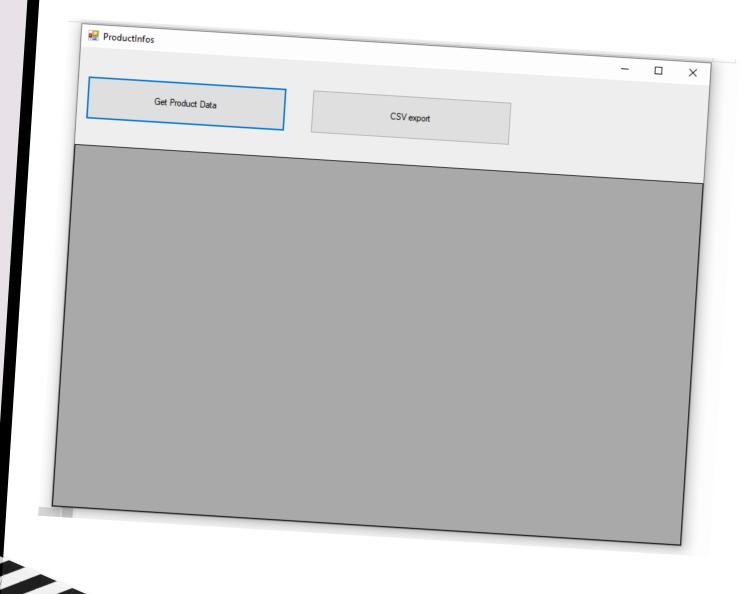
My-bookings -> User



- Users can do CRUD operations on transactions but only with their own user ID
- Users can delete their booking
- Users can change their booking
- Users can make new booking

Desktop app default view

- Users get product data with HTTP client
- Data is visible from json to table in grid view
- Users can export the product info via csv
- Users can save csv under any name

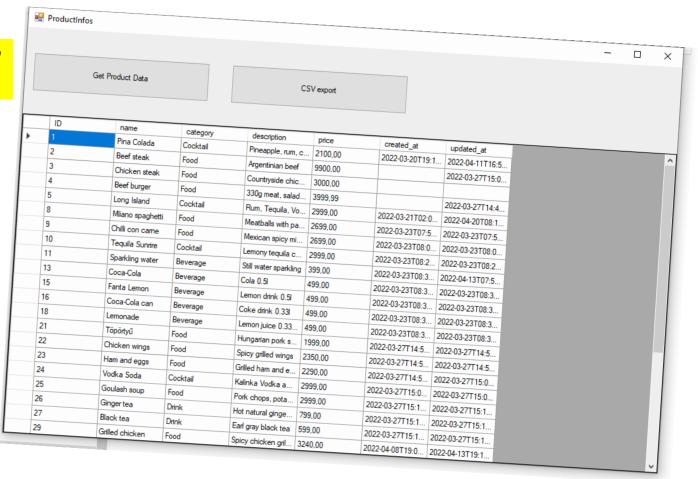




Desktop app Grid

view

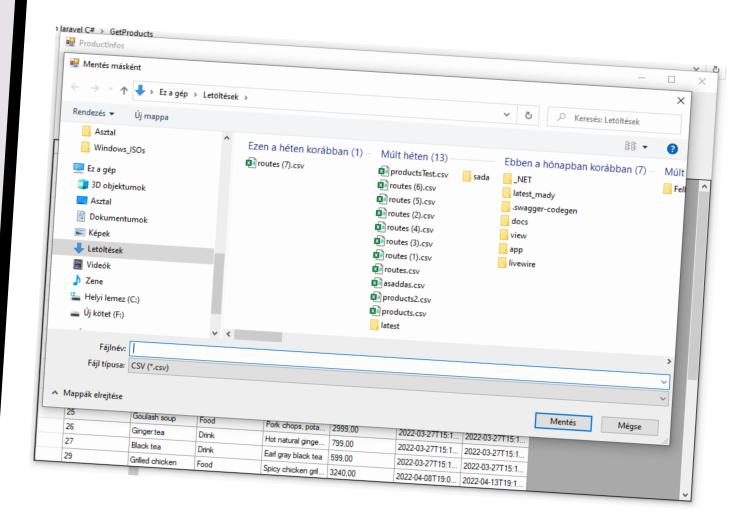
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Desktop app Saving CSV

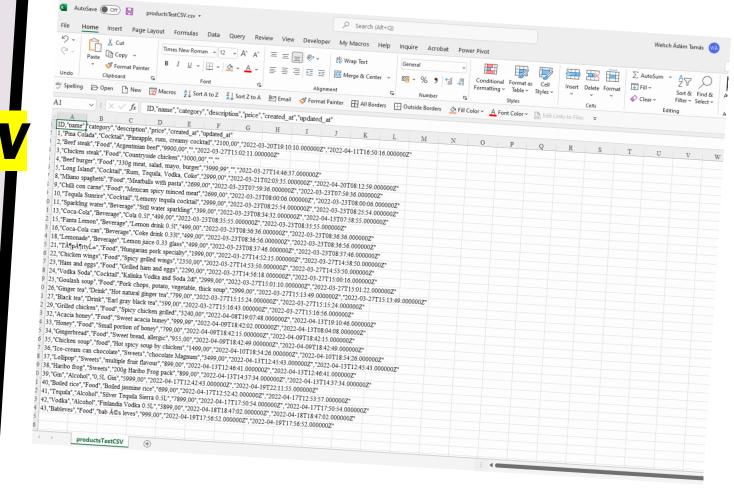
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Desktop app CSV

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Thank you for watching!

