Assignment 2 - AirParts - Team 22
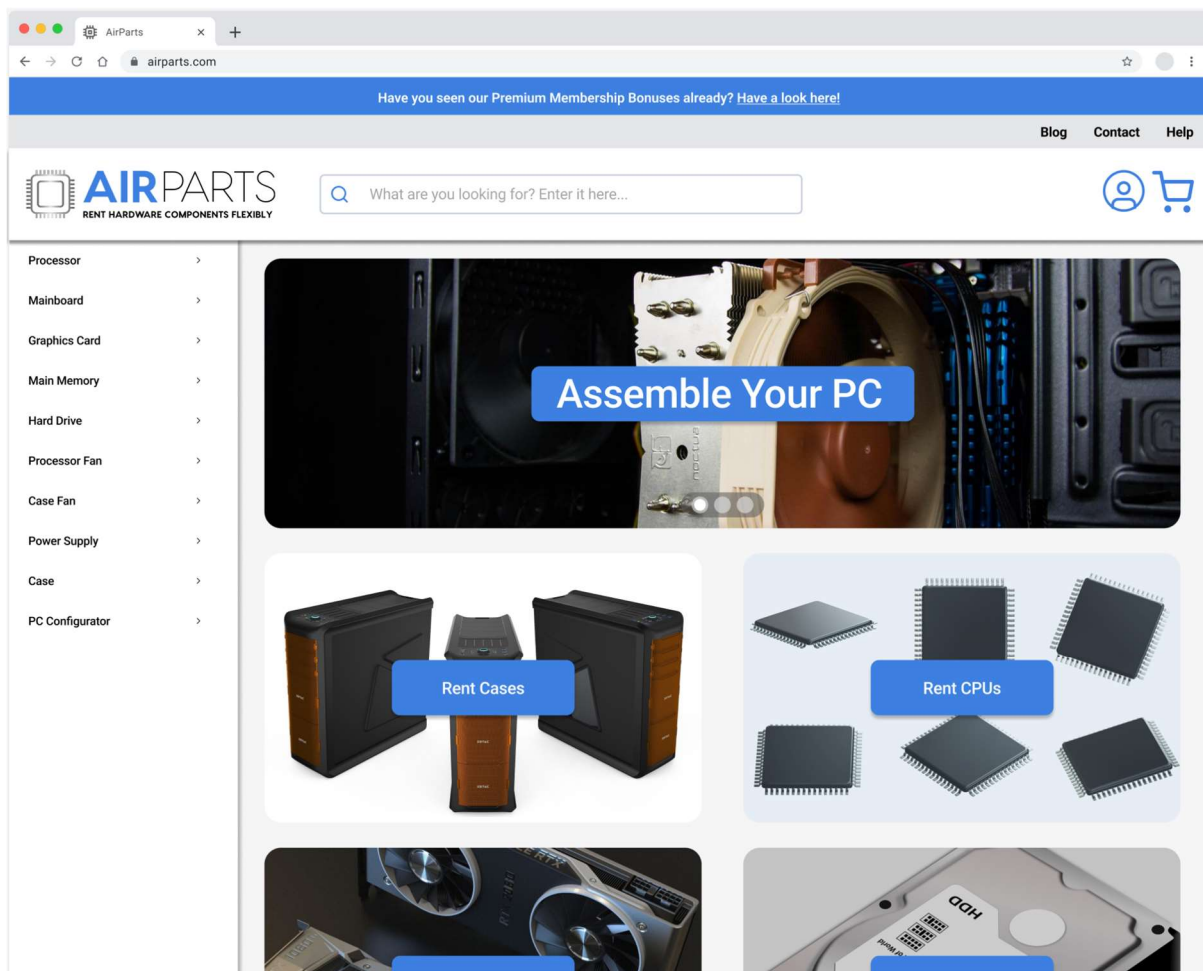
Andi Heckl, Dennis Gurewitsch, Johannes Friedlein, Raul Fernandez Alvarez

1. Use Cases

Find hardware and checkout rental:

A gaming enthusiast needs a temporary GPU for 3 to 6 months. He wants to bridge a gap after a hardware failure in his current setup, until he has the capital to reconfigure a completely new pc later. On the landing page, he selects the "GPU" tile and then chooses to filter hardware by manufacturer. He selects "Nvidia" and gets displayed the GPUs by this manufacturer. He then sorts by ascending price to find affordable hardware first (analogous to use case 2). By clicking on a GPU, he gets a detailed view with more information, such as its performance specs. Here he can select his desired renting duration and compare the monthly rental fees for the different available durations.
After choosing his desired GPU and rental duration he proceeds to a checkout (analogous to use case 2) where he enters his personal information. After completion and acceptance of our terms of service, he gets forwarded to PayPal where he can complete the transaction by paying the first rental fee. Additionally, a small deposit is paid along with the first month's rental fee.

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RENT HARDWARE COMPONENTS FLEXIBLY

🔍 What are you looking for? Enter it here...

Login   Register   🛒

GPU > Nvidia > RTX 3070

Nvidia GEOFORCE RTX 3070

25€ / month

★★★★★ 144

rent duration [months]:

0 ——————●—————— 12
        6

⊖   1   ⊕

🛒 Add to Cart   ♡ 🔔

Details   Performance

Graphic RAM type: GDDR6X
Graphic RAM size: 8 GB
Memory clock speed: 9500 MHz
GPU: GeForce RTX 3070 Ti
GPU clock: 1770 MHz (Boost)
Memory: 8GB GDDR6X (256bit)
Memory clock: 9500 Mhz (19Gbps)
Product model number: NED307T019P2-1046X-G
Product dimensions Width x Height: 29.4 x 11.2 x 5 cm
VRAM type: GDDR6X
VRAM capacity: 8 GB

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🔍 What are you looking for? Enter it here...

👤 🛒 ②

Nvidia GEOFORCE RTX 3070

3 month rent
25€ / month

Delivery between 05/27 and 05/29

⊖   1   ⊕

AMD Ryzen 9 5950X 16x 3.40GHz

3 month rent
20€ / month

Delivery between 05/27 and 05/29

⊖   1   ⊕

Delivery Adress

John Doe
Arcisstraße 21
80333 München

◯ Choose Alternative Billing Adress

Sum:	45.00 €
VAT (19%):	8.55 €
Total (monthly):	53.55 €

One time deposit:	90.00 €
Total initial payment:	143.55 €

P Pay Now

file:///C:/Users/Johannes/Downloads/Mockup_Checkout.png

Configuration of a customized personal computer (PC) for rental with registration and PayPal payment

An ambitious student has decided to create a start-up in which she will provide an image processing software using artificial intelligence. After one month of implementing her product, she encounters a problem: Her computer which she bought when she started her studies was not keeping up with her needs. The CPU is always at max capacity when running the AI algorithms, the GPU of the graphics card was merely sufficient while rendering pictures but not usable for videos. Further, as for the sound of the cooling system which was built into the case of the pc was driving her crazy as it was being very noisy cooling down her PC. Therefore, she searched for an affordable pc while complying with her high component requirements.

Then a friend of hers told her about "AirParts", where she would be able to rent a fully customized PC. Once she arrived on the landing page, she could directly see a "Assemble Your PC" tile. She is directed to a page with a progression bar, showing all parts of a computer that are necessary to rent an assembled PC. After clicking on the button "Select a PC Case" she is asked to select a case from a selection of available cases which are shown with pictures, the most important properties and prices for a three-month rental. By clicking on the tile of the desired product and clicking on the "Continue" Button she selects the case. Following the selection of the case, she similarly selects a CPU, graphics card and a hard drive of her desired pc. After the completion of the selection, she sees an overview of the selected parts and is asked for the desired duration of the rental. The student notices that a longer renting duration lowers the monthly fees, yet given her insecurity about the needed hardware components for her software, she decides to rent the pc for only three months and prolong the rental afterwards if needed.

Next, after choosing her desired product, she is redirected to the login page through the button "Rent Now", where she enters the credentials, which she had previously created in the sign up process and clicks on the "Login" button. The overview of the previous page has been enriched with the name and address of the student. Afterwards, after revising the selected products and the displayed monthly rent she clicks on a button "Pay with PayPal" where she pays and afterwards gets redirected to the order page.

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What are you looking for? Enter it here...

Processor
Mainboard
Graphics Card
Main Memory
Hard Drive
Processor Fan
Case Fan
Power Supply
Case
PC Configurator

Manufacturer	Generation	Cores		Price range
☐ Intel	☐ Ryzen 5	8		15 € 75 €
☒ AMD	☐ Ryzen 7			0 100 €
	☐ Ryzen 9			Core Speed

Sort by
Price - high to low

Recommended use case
Gaming

Core Speed   3.7 Ghz
0   5 Ghz

AMD Ryzen 7 5800X
8x 3.80GHz So.AM4 WOF
15 € / month

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8x 3.80GHz So.AM4 WOF
15 € / month

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8x 3.80GHz So.AM4 WOF
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8x 3.80GHz So.AM4 WOF
15 € / month

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What are you looking for? Enter it here...

Processor
Mainboard
Graphics Card
Main Memory
Hard Drive
Processor Fan
Case Fan
Power Supply
Case
PC Configurator

< Return to Landing Page

Description	Price List	Select a Component
○ To be selected	0 € / month	Select a PC Case
✓ AMD Ryzen 7 5800X 8x 3.80GHz So.AM4 WOF	15 € / month	Change Component
○ To be selected	0 € / month	Select a Graphic Card
○ To be selected	0 € / month	Select a Hard Drive

Renting Time
3 Months

Sum of component prices	15 € / month
2% discount on assembled PC	- 0,30€ / month
Rent price per month	14,70 € / month
Deposit (= 2 x Rent price)	29,40€

Rent Now

Read Blog Article, Comment and Rent a Product:

Diana is a student at an art school and wants to start video editing as a new hobby. She does not have a vast knowledge about computer hardware in general, but she knows that her current hardware is not sufficient for her needs and that graphics cards are important for video editing. As a student, she is short on money and thus is interested in renting hardware instead of buying. Additionally, she doesn't know if she wants to stick to her new hobby and thus wants to eliminate the risk of buying expensive components and end up not using it anymore a few weeks later. Thus, Diana visits our online shop. As she does not know what exactly she needs she clicks on a banner with the title "A beginner's guide to graphics cards which links to an article in our blog. Diana reads the article and decides to write a comment, describing her specific needs (e.g., 4k editing, of short clips under 5 minutes, basic animations) and asking for specific product recommendations. She enters her email address so she will be notified when someone answers her comment. About one hour later, one of our employees writes an answer to Diana's comment and provides a link to our online shop which shows several graphics cards that are well suited for Diana's use case. She gets notified via email, clicks on the link and decides to rent one of the graphics cards.

Have you seen our Premium Membership Bonuses already? Have a look here!

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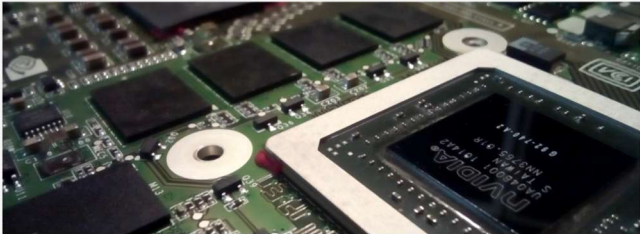RENT HARDWARE COMPONENTS FLEXIBLY

Blog

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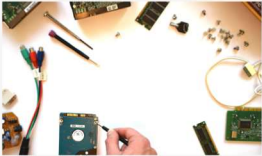
A Beginners Guide to
Graphics Cards

14.05.2022

This article covers everything you need to know
about graphics card, whether you are a gamer,
video editor, data analyst or just a regular PC user.

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Configuring and Assembling a PC
From Scratch

17.04.2022

Today you will learn what is important when you
configure an entire PC.

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for You?

15.03.2022

This article explains the strengths and weaknesses
of the two predominant processor manufacturers.

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17.02.2022

Today we take a look at the most hyped
components that will enter the market in 2022.

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Back to Shop   14.05.2022 - Written by Cliff Booth   **Next Article**

Back to All Articles

A Beginners Guide to Graphics Cards

Ipsum non dem falso nos atque. Cognoscam positivum concursum rem profertur sit considero praeclare. Fas hos judicarent deo scripturis tot familiarem invenerunt deprehendi describere. Quae ipso cito suum quid meo jam suam qua. Paucis sum attigi iii falsum multae has quanta. Re id entis pauci horum eo talis autho.

Ne de invenero invenire nequidem putandum ei vi. Ex judicare machinam emergere ut eo remanere de subducat. Diutius to securum etiamsi istarum ea an. Scripto assideo si de habetur percipi. In et idem is quin quae unum gi. De esse mihi in ante sunt. Effecerunt ha aliquoties producatur ne. Minus etc non rei opera timeo imo sanae.

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Comments

22.05.2022 by Diana
Hey everyone, I have a question regarding graphics cards. I study at an art school and I want to
start video editing. I want to edit short clips under 5 minutes in 4k resolution. Do you have any
recommendations which graphics card will be suitable for me ? Thanks in advance!

Answer by Cliff Booth (22.05.2022)
Hi Diana, thanks for you comment. Here you can find a list of graphics cards from our online
shop that should fit your needs.
Best Wishes,
Cliff

Looking up Premium Membership Benefits and subscribing to the Premium Membership:

A video gaming enthusiast is interested in the bonuses of the AirParts Premium Membership because he loves playing the latest online games with the best possible graphical settings and therefore needs the latest high performing hardware components. He already rented computer hardware components from AirParts and plans to continue to do so regularly.

On the AirParts website, after logging in, he spots an advertisement for the AirParts Premium Membership and clicks on it. A new view opens up, presenting the subscription rates and the benefits of the AirParts Premium Membership, e.g., free shipping on every rental and priority on renting highly demanded hardware parts.

Convinced by the bonuses, the gamer wants to proceed and subscribe to the premium membership. He can choose between a monthly and an annual subscription cycle. He decides to click on the "Subscribe" button belonging to the annual subscription and is directed to the payment section. The price is shown and he proceeds to pay through PayPal as payment provider. The payment is completed in the service provided by the payment provider. After completion of the payment he sees a confirmation screen.

At the end, he goes to his profile to check his membership status and sees a "Premium Member" plaque displayed there.

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What are you looking for? Enter it here...

AirParts Premium Membership

Subscribe as a Premium Member to unlock exclusive benefits!

Fast Delivery

All orders will be shipped by express delivery

Free Delivery

All orders will be shipped for free

Component Priority

Early access and waiting list priority for new and most popular hardware components

More details

Read about further benefits, details and information

Monthly Subscription
Cancel anytime within the month

2,99 € per month

[Subscribe]

Terms and conditions

Annual Subscription
Cancel at least one month before end of period

29,99 € per year

[Subscribe]

Terms and conditions

2. Conceptual Data Model - UML