

## **Membros da equipe GHYM™:**

Davi de Jesus Duarte;  
Gabriel Tavares Martins de Oliveira;  
Gustavo Henrique de Moraes;  
Humberto da Torre Murad;  
Igor de Almeida Aguiar.

**INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA DE SÃO PAULO**  
**COMPARADOR DE HARDWARE GHYM™**

**GRUPO 5 – 23I**

**DISCIPLINA: PROJETO INTEGRADOR (PJI-2)**

**27/06/2022**

**PROFESSOR: CARLOS HENRIQUE VERISSIMO PEREIRA**



# PAPEIS E RESPONSABILIDADES DURANTE O PROJETO GHYM™



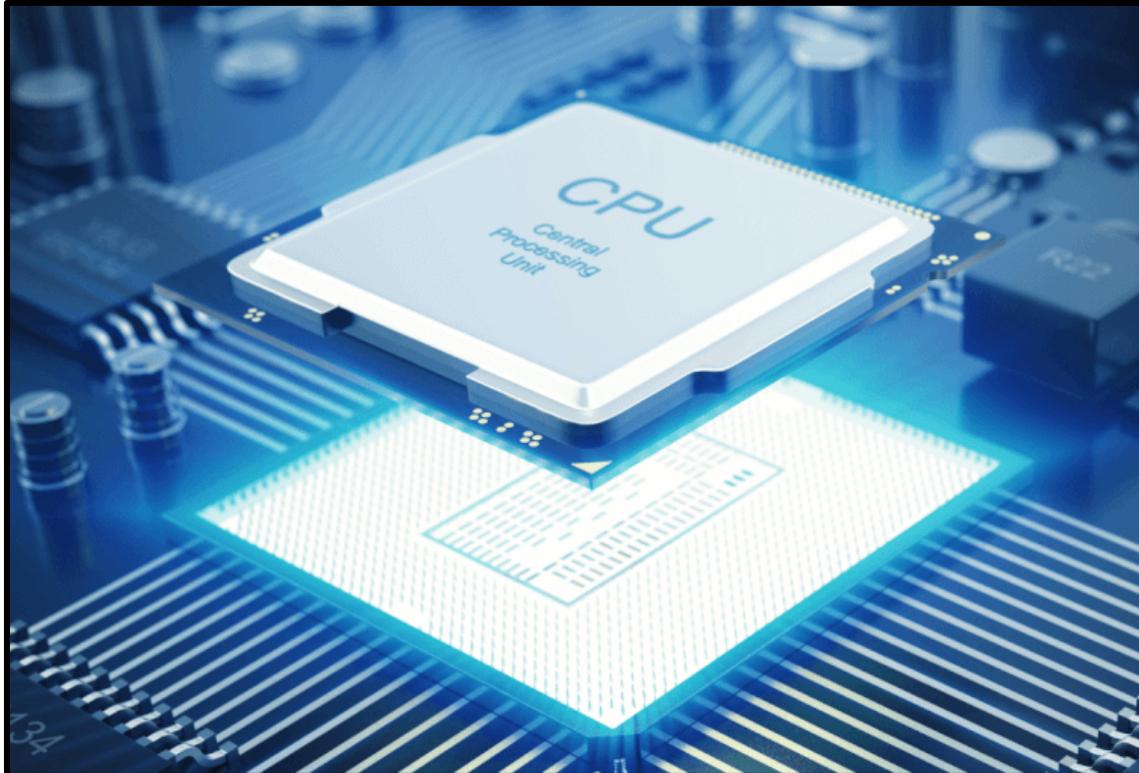
| Nome                                | Papel  | Responsabilidade   |
|-------------------------------------|--|--|
| Davi de Jesus Duarte                | Desenvolvimento da interface gráfica - View          | <ul style="list-style-type: none"><li>- Desenvolver a interface gráfica do software;</li><li>- Otimizar as informações contidas nas abas do software;</li><li>- Organizar os documentos de atividades do grupo;</li><li>- Desenvolvimento integrado do MVC.</li></ul>                                |
| Gabriel Tavares Martins de Oliveira | Gerente do grupo<br>Gestor de banco de dados – Model | <ul style="list-style-type: none"><li>- Gerir o grupo no desenvolvimento geral;</li><li>- Desenvolver o banco de dados MySQL;</li><li>- Integrar o banco de dados com o software Java;</li><li>- Desenvolvimento integrado do MVC;</li><li>- Revisar os documentos de atividades do grupo.</li></ul> |
| Gustavo Henrique de Moraes          | Desenvolvimento da interface gráfica - View          | <ul style="list-style-type: none"><li>- Desenvolver a interface gráfica do software;</li><li>- Otimizar as informações contidas nas abas do software;</li><li>- Desenvolvimento integrado do MVC.</li></ul>  |
| Humberto da Torre Murad             | Desenvolvimento geral – MVC                          | <ul style="list-style-type: none"><li>- Desenvolvimento da interface gráfica;</li><li>- Desenvolvimento do software e do banco de dados;</li><li>- Desenvolver as apresentações do grupo;</li><li>- Desenvolvimento integrado do MVC.</li></ul>  |
| Igor de Almeida Aguiar              | Desenvolvedor - Controller                           | <ul style="list-style-type: none"><li>- Desenvolver o software em Java;</li><li>- Integrar o software Java com o banco de dados MySQL;</li><li>- Integrar o software Java com a interface gráfica.</li><li>- Desenvolvimento integrado do MVC.</li></ul>   |

# CONTEXTO DE NEGÓCIO - GHYM™



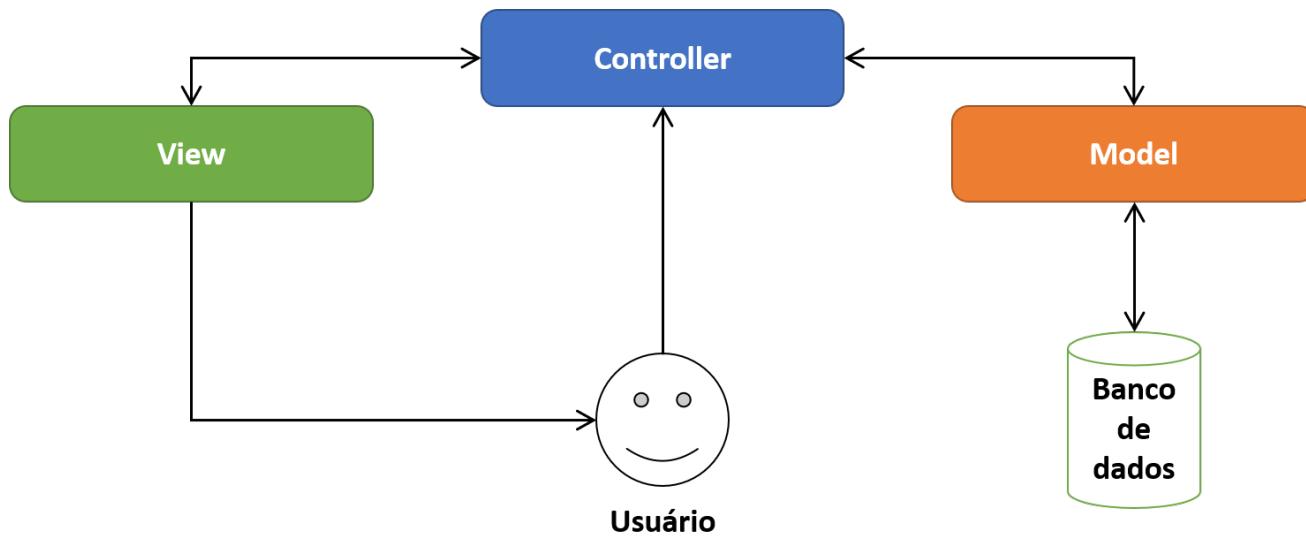
- Para um usuário leigo comprar um computador para uso pessoal é muito complicado, pois lhe falta um embasamento quanto a configuração de componentes que ele irá necessitar, mediante seus aplicativos de uso.
- Diante desse problema, propomos uma solução rápida e precisa.

# SOLUÇÃO PROPOSTA - GHYM™



- Um sistema de comparação de desempenho de hardware (Processadores e Placas de vídeo), que possibilitará uma orientação ao usuário quanto ao desempenho dos componentes comparados. Também fornecerá possíveis configurações de hardware, mediante os seus softwares de uso do usuário.

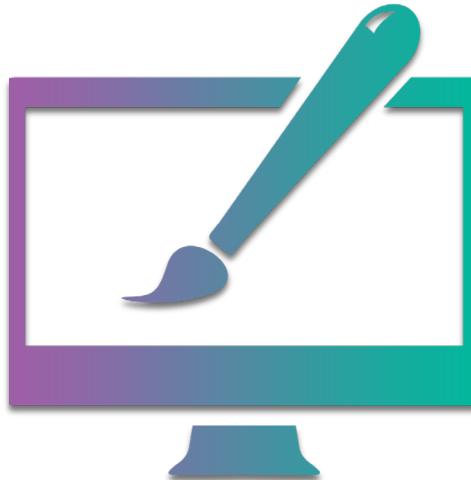
# ARQUITETURA DA SOLUÇÃO - GHYM™



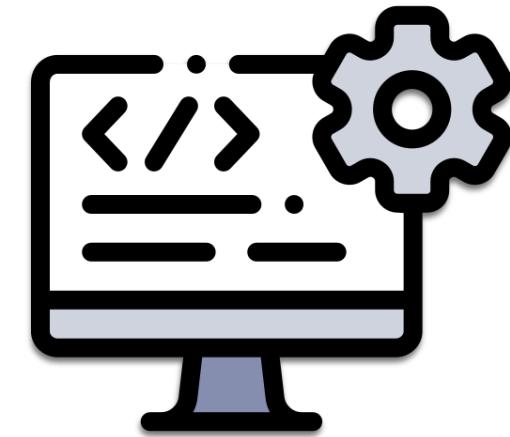
- Neste software, utilizaremos a arquitetura MVC (Model-View-Controller), que é bem focada em contribuir na otimização das requisições feitas pelo comando dos usuários.



Banco de dados  
(Model)



Interface Gráfica  
(View)



Desenvolvimento do Software  
(Controller)

ARQUITETURA MVC (MODEL-VIEW-CONTROLLER)



# TECNOLOGIAS ENVOLVIDAS

## GHYM™



Banco de dados (MySQL)



Linguagem de programação (JAVA)



Controle de versão (GIT)



Repositório (GitHub)

# STATUS REPORT - GHYM™



O projeto da equipe GHYM™ tem evoluído muito ultimamente e todos esses avanços contribuíram para uma nova visualização do negócio! Nas últimas semanas, fizemos:

- Diagrama entidade-relacionamento (DER) e Modelo entidade-relacionamento (MER) para o nosso banco de dados (SQL);
- Abstração das classes da nossa solução através do Diagrama de Classes (UML);
- Segunda versão da Prototipação da solução através da plataforma FIGMA;
- Atualizações nas funcionalidades do nosso software, oferecendo ainda mais recursos aos usuários;
- Criação do Blog através da plataforma Carrd.

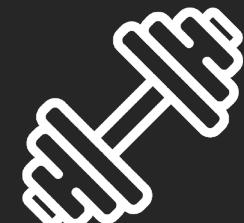
# PROTOTIPAÇÃO - GHYM™



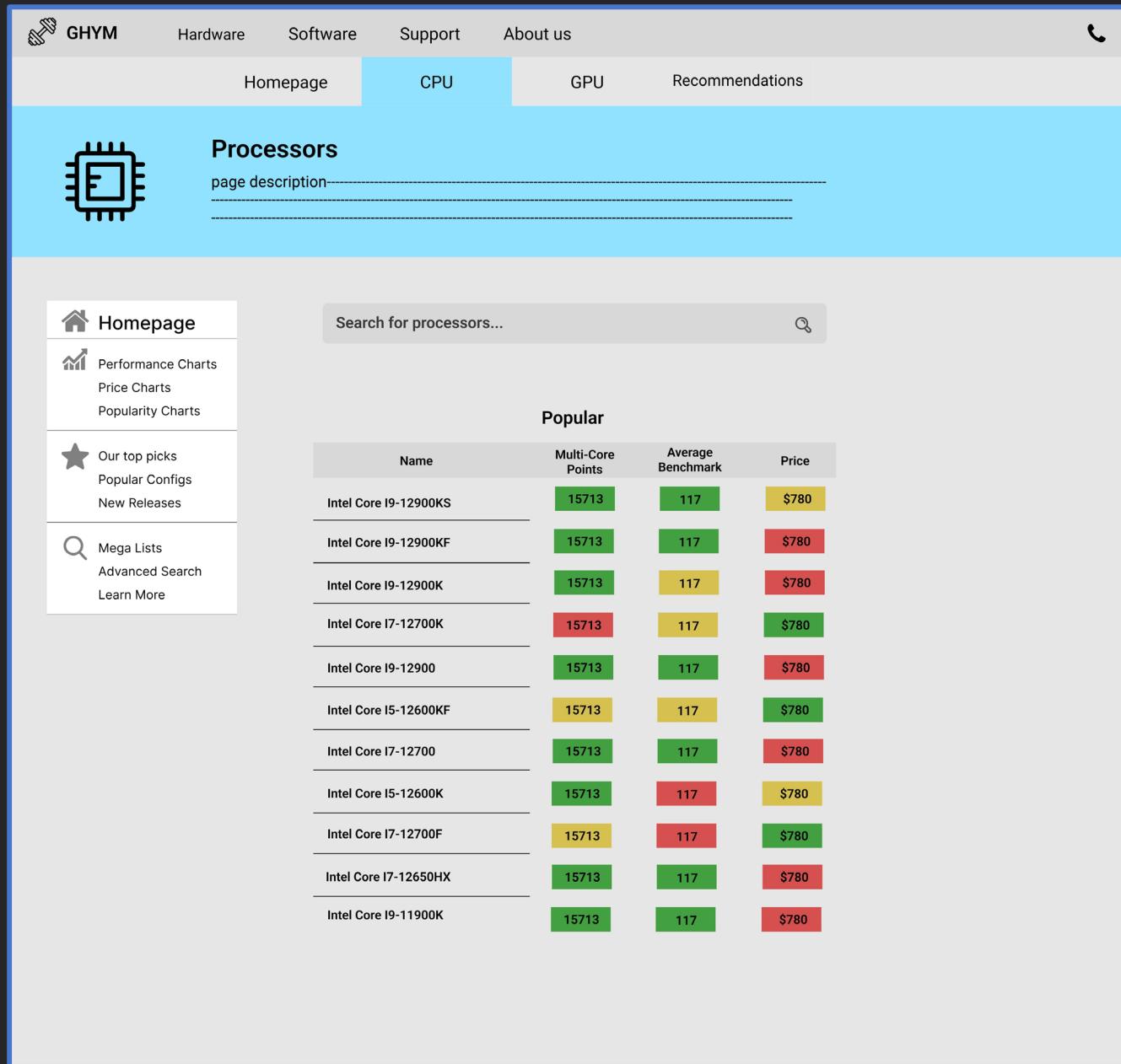
- Protótipo feito pelo FIGMA.
- <https://www.figma.com/proto/N48lbUvmBqoVYGlxdArn6F/Project-GHYM-2.0?node-id=1%3A2&scaling=scale-down&page-id=0%3A1&starting-point-node-id=1%3A2>
- Principais telas:

# Main Homepage da solução - GHYM™

The screenshot displays the main homepage of the GHYM solution. At the top, there is a navigation bar with links for "Hardware", "Software", "Support", and "About us". Below this is a secondary navigation bar with "Homepage" (highlighted in blue), "CPU", "GPU", and "Recommendations". The main content area features a large blue header with the GHYM logo and the text "Hardware Specifications and recommendations". A placeholder text "Who we are-----" is visible below the header. On the left side, a sidebar contains links for "Homepage", "Performance Charts", "Price Charts", "Popularity Charts", "Our top picks", "Popular Configs", "New Releases", "Mega Lists", "Advanced Search", and "Learn More". The central part of the page shows two large, overlapping black 'X' marks on a white background, with the text "Engaging Content" placed above each. A search bar with the placeholder "Search on our website" and a magnifying glass icon is located in the top right corner.

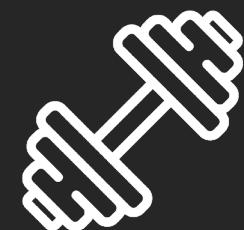


# CPU Main Homepage da solução - GHYM™



The screenshot shows the main homepage of the GHYM solution. The top navigation bar includes links for GHYM (with a dumbbell icon), Hardware, Software, Support, About us, and a phone icon. Below the navigation is a secondary menu with links for Homepage (selected), CPU (highlighted in blue), GPU, and Recommendations. A large blue header section features a central chip icon and the word "Processors". Below this, a search bar says "Search for processors..." with a magnifying glass icon. To the left is a sidebar with links for Homepage, Performance Charts, Price Charts, Popularity Charts, Our top picks, Popular Configs, New Releases, Mega Lists, Advanced Search, and Learn More. The main content area displays a "Popular" section with a table comparing ten Intel Core processors based on Multi-Core Points, Average Benchmark, and Price. The table rows are as follows:

| Name                  | Multi-Core Points | Average Benchmark | Price |
|-----------------------|-------------------|-------------------|-------|
| Intel Core i9-12900KS | 15713             | 117               | \$780 |
| Intel Core i9-12900KF | 15713             | 117               | \$780 |
| Intel Core i9-12900K  | 15713             | 117               | \$780 |
| Intel Core i7-12700K  | 15713             | 117               | \$780 |
| Intel Core i9-12900   | 15713             | 117               | \$780 |
| Intel Core i5-12600KF | 15713             | 117               | \$780 |
| Intel Core i7-12700   | 15713             | 117               | \$780 |
| Intel Core i5-12600K  | 15713             | 117               | \$780 |
| Intel Core i7-12700F  | 15713             | 117               | \$780 |
| Intel Core i7-12650HX | 15713             | 117               | \$780 |
| Intel Core i9-11900K  | 15713             | 117               | \$780 |



# CPU Info Page da solução - GHYM™

GHYM Hardware Software Support About us

Homepage CPU GPU Recommendations

## Processors

page description

[Homepage](#)

[Performance Charts](#)

[Price Charts](#)

[Popularity Charts](#)

[Our top picks](#)

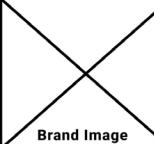
[Popular Configs](#)

[New Releases](#)

[Mega Lists](#)

[Advanced Search](#)

[Learn More](#)

 Intel Core i9-12900KS

117 8585 938

② Socket: LGA 1700

② Total Cores: 16 Cores, 24 Threads

② TDP Up to: 241 W

② Typical TDP: 150 W

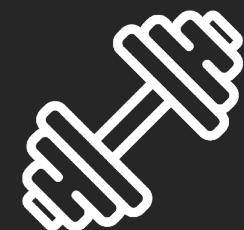
② Release Date: Q2 2022

② Base Clock Speed: 3.6 GHz

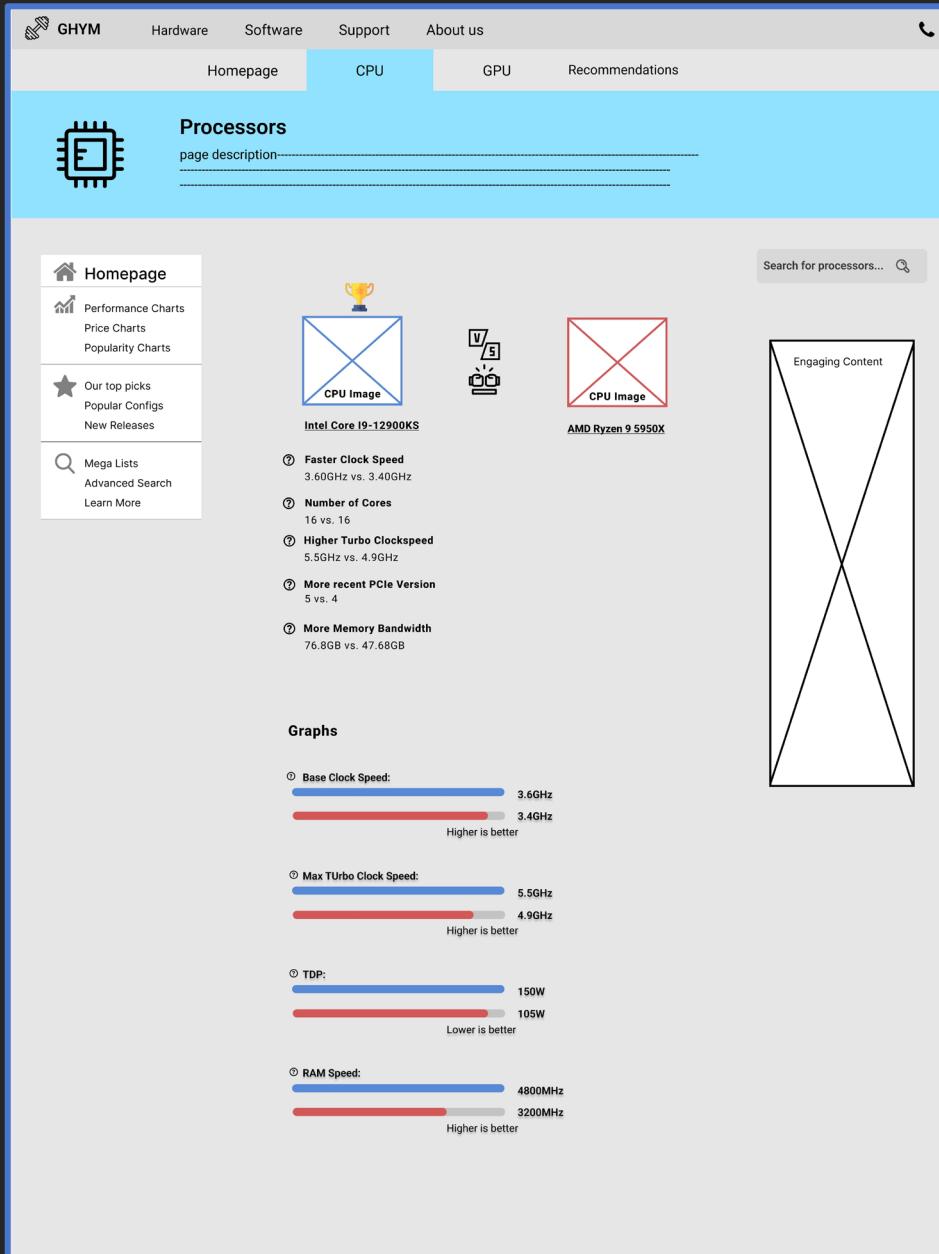
② Maximum Boost Speed: 5.5GHz max turbo speed

Engaging Content

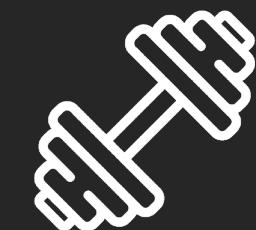
Search for processors... 



# CPU Comparison Page da solução - GHYM™



The screenshot shows a web-based CPU comparison tool. At the top, there's a navigation bar with links for GHYM, Hardware, Software, Support, About us, Homepage, CPU (which is the active tab), GPU, and Recommendations. Below the navigation is a blue header section titled "Processors" with a sub-section "page description". On the left, there's a sidebar with links to Homepage, Performance Charts (Price Charts, Popularity Charts), Our top picks, Popular Configs, New Releases, and search functions for Mega Lists, Advanced Search, and Learn More. The main content area compares two processors: Intel Core i9-12900KS and AMD Ryzen 9 5950X. It highlights several performance metrics with icons: Faster Clock Speed (Intel is faster at 3.60GHz vs. 3.40GHz), Number of Cores (Intel has 16 cores vs. 16), Higher Turbo Clockspeed (Intel reaches 5.5GHz vs. 4.9GHz), More recent PCIe Version (Intel uses 5 vs. 4), and More Memory Bandwidth (Intel provides 76.8GB vs. 47.6GB). To the right of the processor comparison is a large graphic featuring a stylized "X" shape inside a rectangle, with the text "Engaging Content" above it. A search bar at the top right says "Search for processors..." with a magnifying glass icon.



# GPU Main Homepage da solução - GHYM™

GHYM

Hardware Software Support About us

Homepage CPU GPU Recommendations

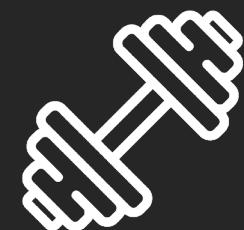
## Graphics Cards

page description

Search for GPUs...

Popular

| Name                  | Multi-Core Points | Average Benchmark | Price |
|-----------------------|-------------------|-------------------|-------|
| GeForce RTX 3080      | 15713             | 117               | \$780 |
| Intel Core i9-12900KF | 15713             | 117               | \$780 |
| Intel Core i9-12900K  | 15713             | 117               | \$780 |
| Intel Core i7-12700K  | 15713             | 117               | \$780 |
| Intel Core i9-12900   | 15713             | 117               | \$780 |
| Intel Core i5-12600KF | 15713             | 117               | \$780 |
| Intel Core i7-12700   | 15713             | 117               | \$780 |
| Intel Core i5-12600K  | 15713             | 117               | \$780 |
| Intel Core i7-12700F  | 15713             | 117               | \$780 |
| Intel Core i7-12650HX | 15713             | 117               | \$780 |
| Intel Core i9-11900K  | 15713             | 117               | \$780 |



# Recommendation Main Homepage da solução - GHYM™

The screenshot displays the GHYM homepage with a sidebar and a main content area. The sidebar on the left includes links for 'Homepage', 'Performance Charts', 'Price Charts', 'Popularity Charts', 'Our top picks', 'Popular Configs', 'New Releases', 'Mega Lists', 'Advanced Search', and 'Learn More'. The main content area features a search bar labeled 'Search for apps...' with a magnifying glass icon. Below the search bar, a section titled 'Popular:' lists several applications and games with their icons and names. To the right of the list is a large graphic element consisting of two nested triangles forming an 'X' shape, with the text 'Engaging Content' positioned above it. The applications listed are Microsoft Word 2019, Minecraft, Adobe Premier Pro, Valorant, Call of Duty: Modern Warfare, Google Chrome, uTorrent, and MySQL.

GHYM

Hardware Software Support About us

Homepage CPU GPU Recommendations

## Apps for recommendations

page whatever

Homepage

Performance Charts  
Price Charts  
Popularity Charts

Our top picks  
Popular Configs  
New Releases

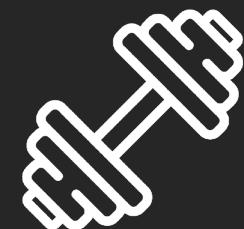
Mega Lists  
Advanced Search  
Learn More

Search for apps...

Popular:

- Microsoft Word 2019 Type
- Minecraft Type
- Adobe Premier Pro Type
- Valorant Type
- Call of Duty: Modern Warfare Type
- Google Chrome Type
- uTorrent Type
- MySQL Type

Engaging Content



# Recommendation By Use Page da solução - GHYM™

GHYM

Hardware Software Support About us

Homepage CPU GPU Recommendations

## Apps for recommendations

page whatever-----

-----

**Homepage**

Performance Charts  
Price Charts  
Popularity Charts

Our top picks  
Popular Configs  
New Releases

Mega Lists  
Advanced Search  
Learn More

Search for apps... 

**Selected apps:**

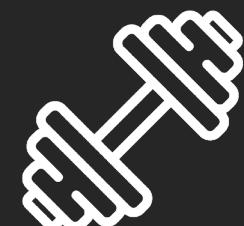
- Microsoft Word 2019
- Adobe Premier Pro
- Minecraft
- MySQL
- Valorant
- Call of Duty: Modern Warfare

**Minimum Configuration:**

- CPU Image **Processor Model Name Minimum**  
Price: \$\$\$
- GPU Image **Graphics Card Model Minimum**  
Price: \$\$\$
- RAM Image **RAM Model Minimum**  
Price: \$\$\$

**Recommended Configuration:**

- CPU Image **Processor Model Recommended**  
Price: \$\$\$
- GPU Image **Graphics Card Model Recommended**  
Price: \$\$\$
- RAM Image **RAM Model Recommended**  
Price: \$\$\$



## PRÓXIMOS PASSOS - **GHYM™**



Para a nossa solução **GHYM™**, nossos próximos passos estão previstos no nosso cronograma, serão ele:

- Desenvolvimento do código-fonte em Java;
- Criação do repositório GitHub;
- Inserção de dados no nosso banco;
- Início no desenvolvimento da interface gráfica da solução;
- Integração entre as três camadas da arquitetura MVC da nossa solução.

# Cronograma do projeto - GHYM™





TODA EQUIPE  
DA **GHYM™**  
AGRADECE PELA  
SUA ATENÇÃO!

