

Israel Garcia Real

*Report: My Final Project Website  
Web Site Development/ Outi Grotenfelt,  
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30<sup>th</sup> of December 2025

## **My Final Project Website (Website for the Mexican musician Guillermo Jacome)**

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## 1 What type of website was built and why?

For my final project, I built a personal portfolio website for the Mexican musician (Guillermo Jacome). The main goal of the website is to present:

- ◆ *Personal and professional background.*
- ◆ *Photo gallery and visual content.*
- ◆ *Contact information and social media links.*

I chose this type of website because it allowed me to combine design, layout, responsiveness, and interactivity using both Bootstrap 5 and custom CSS. It also reflects a real-world use case, not just a demo project. Jacome is a longtime friend of mine, and he was looking for a website developer to build his own site. Since I needed to practice website development and he needed the service, we agreed to use my final assignment as an opportunity to work together. It was a win-win situation: I could experiment and learn, and he could get a website for free.

## 2 Which HTML and CSS features were used?

During this project, I used a wide range of HTML and CSS features learned in this course:

### HTML:

- ◆ Semantic elements: <header>, <main>, <section>, <footer>
- ◆ Multiple HTML pages:
  - ✓ index.html
  - ✓ about.html
  - ✓ gallery.html
  - ✓ contact.html
- Internal navigation links between pages
- Images with proper alt attributes
- Forms with labels, placeholders, and accessibility attributes
- Embedded YouTube videos using <iframe>
- Language switching using data-i18n attributes.

**CSS:**

- ◆ External CSS files for styling
- ◆ Custom glass-morphism effect using:
  - ✓ background: rgba()
  - ✓ backdrop-filter: blur()
- ◆ Responsive layouts with max-width, margin: auto, and media queries
- ◆ Float and clear techniques (used in gallery demo section)
- ◆ Custom hover effects and transitions
- ◆ Dark theme design with consistent colour palette

Although the assignment requires one external CSS file, I decided to use two CSS files:

- ✓ One main stylesheet for general pages
- ✓ One dedicated stylesheet for the gallery

This decision was made after multiple layout conflicts (hundreds of hours) and debugging issues. Separating styles helped keep the gallery stable and functional without breaking the rest of the site. This choice is explained as a design decision, not a mistake.

**JavaScript (JS)**

I also used JavaScript to add functionality that HTML/CSS alone can't do:

- ◆ Bilingual site (EN / ES) using a translation dictionary (translations) + data-i18n attributes.
- ◆ Language buttons (EN / ES) that switch the text dynamically.
- ◆ Saved language preference using localStorage, so the site remembers the selected language.
- ◆ Contact form behavior:
  - ✓ Shows a “Thank you” message before redirecting
  - ✓ Builds a mailto: message automatically from form inputs

- ◆ Auto-updates the current year in the footer using JavaScript (modern touch + avoids manual editing).

### 3 Bootstrap components used

Bootstrap 5 was used extensively across the website:

- ❖ Bootstrap grid system (container, row, col-\*)
- ❖ Responsive utilities
- ❖ Buttons and navigation layouts
- ❖ Carousel (used in the Gallery for video content)
- ❖ Ratio utility (ratio-16x9) for responsive videos
- ❖ Utility classes for spacing and alignment
- ❖ Mobile-first responsive behavior

Bootstrap allowed me to build the structure quickly, while custom CSS helped personalize the design.

#### Social media + Icons

I included social media links (Facebook, Instagram, YouTube) with real icons/logos (SVG icons loaded via CDN). Buttons include hover effects and are placed in a clean layout inside the contact page.

### 4 Responsive design implementation

Responsive design was a key part of this project.

#### **Actions taken:**

- A. Used Bootstrap's grid system for layout
- B. Used flexible widths instead of fixed sizes
- C. Adjusted layouts for:
  - ✓ Desktop

- ✓ Tablet
- ✓ Mobile portrait
- ✓ Mobile landscape

D. Tested responsiveness using:

- ✓ Browser developer tools
- ✓ Device emulation
- ✓ Different mobiles

E. Adjusted background images for better mobile behaviour

F. Ensured navigation and content remain readable on small screens

The website adapts correctly to different screen sizes without breaking layout or functionality.

**Media queries (CSS @media)**

To improve responsiveness (especially for mobile), I used CSS media queries like:

- I. Adjusted background wallpapers for mobile so they don't look broken in portrait view
- II. Controlled layout spacing and box widths on small screens
- III. Ensured some sections keep a good layout in mobile landscape too (2-column behaviour where possible)

So responsiveness is not only Bootstrap – I also used custom @media rules when Bootstrap alone was not enough.

## 5 Accessibility considerations

Accessibility was considered throughout the project:

- ✓ All images include meaningful alt attributes
- ✓ Form elements include <label> and aria-label where needed
- ✓ Buttons and links are keyboard accessible
- ✓ Colour contrast was checked for readability

- ✓ Language switching does not break content structure

Additionally, Google Lighthouse was used to review accessibility and general best practices.

## 6 Challenges faced and solutions

This project involved several challenges:

### ***CSS conflicts***

Using complex backgrounds and effects caused conflicts across pages.

Solution: Split CSS into two files to isolate gallery styles.

### ***Gallery layout complexity***

The gallery used advanced positioning, floating, and custom visuals that were difficult to keep responsive.

Solution: Careful debugging, testing, and preserving working code instead of rewriting everything. Adding Bootstrap.

### ***Translations (EN / ES)***

Some elements stopped translating correctly when IDs or keys were renamed.

Solution: Standardized data-i18n keys and ensured consistency across pages.

### ***Footer width and centering***

The footer did not respond correctly to max-width.

Solution: Adjusted display behavior and container usage.

Overall, these challenges helped me understand real debugging processes, not just theory.

## 7 Learning reflection

This project helped me understand how websites actually behave in real situations. I learned that:

- ✓ Bootstrap helps a lot, but custom CSS is still necessary
- ✓ Debugging is part of development, not failure
- ✓ Keeping working code is sometimes better than rewriting everything
- ✓ Responsiveness and accessibility require testing, not guessing

This was one of the most practical assignments I've done so far. I discovered a passion for coding—I didn't even know I had it. It was a very time-consuming assignment, but luckily I didn't feel the hours passing, and I started early enough. Maybe if I had

studied Bootstrap before attempting such an ambitious project, I could have saved a lot of time.

## 8 Self-assessment

I believe this project deserves a high grade because:

- ✓ All required features are implemented
- ✓ The site is responsive and accessible
- ✓ Bootstrap is used correctly
- ✓ Design is consistent and personalized
- ✓ Real challenges were solved, not avoided
- ✓ I went beyond the original scope by using JavaScript—for example, to add translations and other interactive features. I also created personalized backgrounds, designed custom logos, and did a lot of photo editing.

The only reason I don't give myself a full 5 is because the project evolved through trial and error, and some parts required workarounds. However, these workarounds were intentional and properly documented. Not bad for a beginner level!

## References

Bootstrap. 2024. *Bootstrap 5 Documentation*. Accessed 16 December 2025.  
<https://getbootstrap.com/docs/5.3/>

Bootstrap Icons. 2024. *Bootstrap Icons Documentation*. Accessed 16 December 2025.  
<https://icons.getbootstrap.com/>

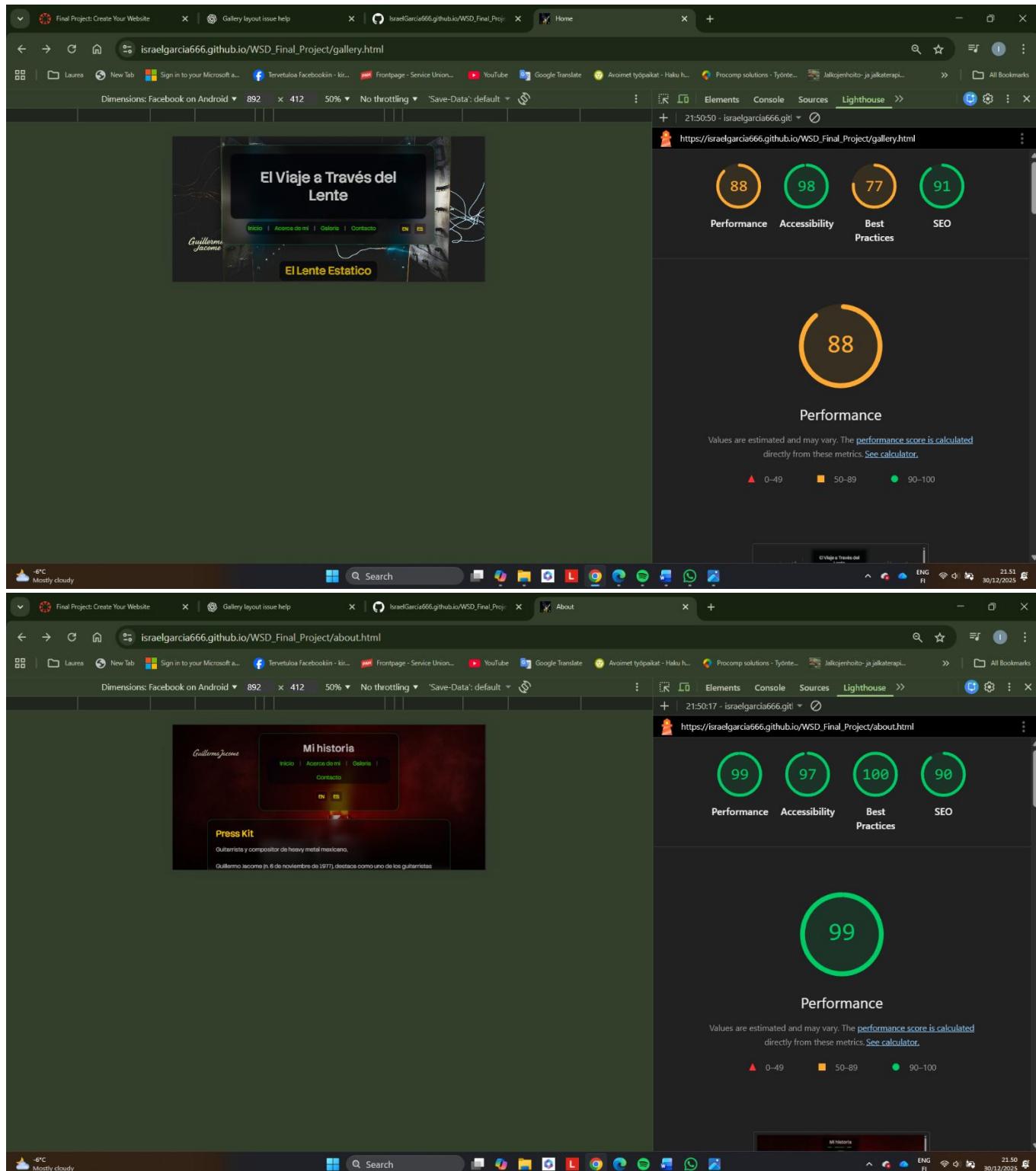
Codecademy. 2024. *Learn HTML & CSS Courses*. Accessed 14 November 2025.  
<https://www.codecademy.com/>

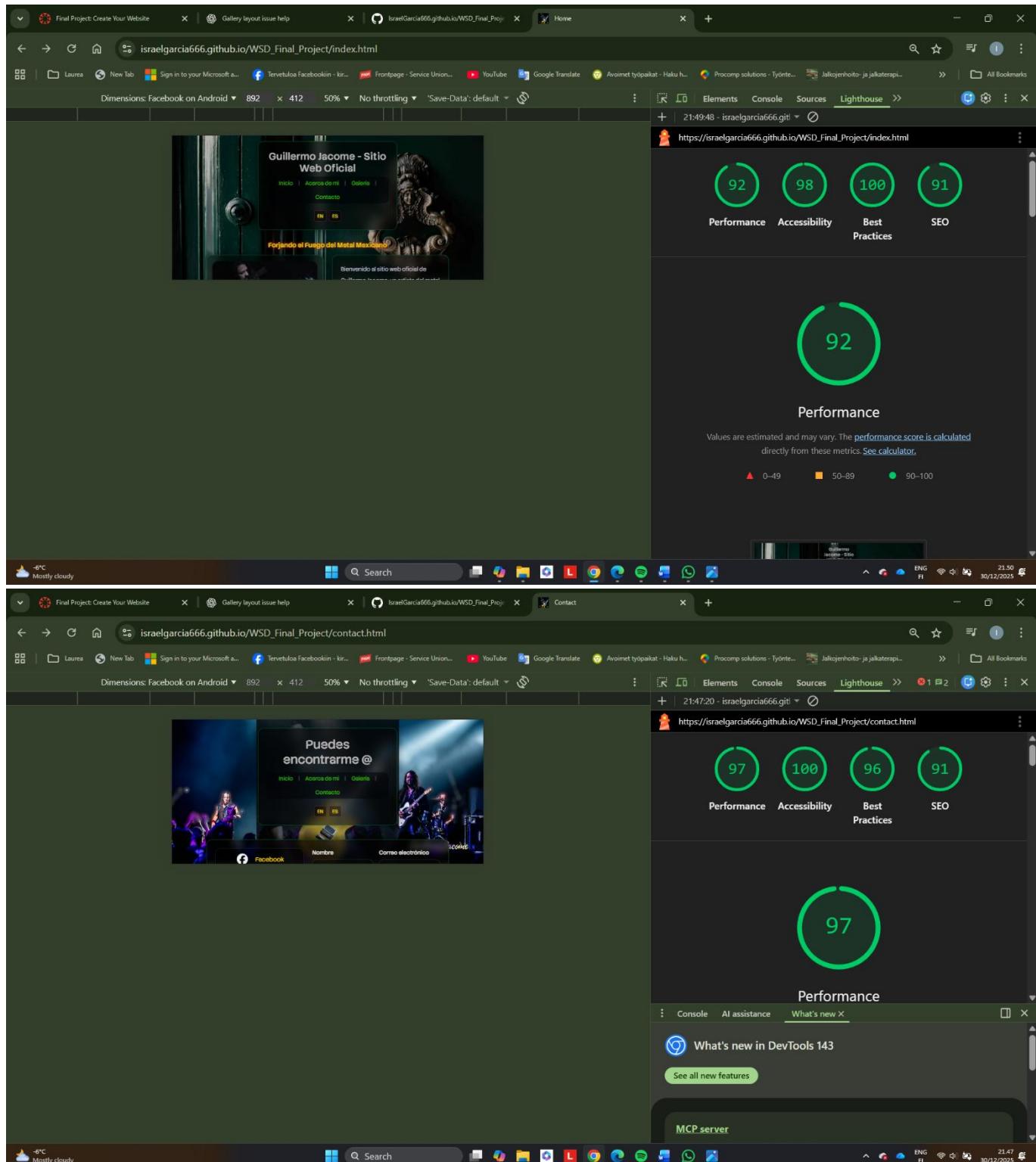
**Modules 1-4. 2025. Web Site Development ND00CC68-3001 Course.** Laurea University of Applied Sciences, Espoo. Accessed 16 December 2025.

Rowe, Liz. 2023. [Online video] *What is Bootstrap? / Beginner CSS Framework*. Accessed 16 December 2025. YouTube. <https://youtu.be/MyCvTSjkD74>

W3Schools. 2024. *Bootstrap 5 Tutorial*. Accessed 16 December 2025.  
<https://www.w3schools.com/bootstrap5/>

## Appendix (Screenshots)





The image shows two screenshots of a web browser displaying website pages and their corresponding Lighthouse performance reports.

**Screenshot 1 (Top):** The page title is "El Viaje a Traves del Lente". The Lighthouse report shows the following scores:

Category	Score
Performance	88
Accessibility	98
Best Practices	77
SEO	91

**Screenshot 2 (Bottom):** The page title is "Mi historia". The Lighthouse report shows the following scores:

Category	Score
Performance	88
Accessibility	97
Best Practices	100
SEO	90

Both screenshots show the browser's toolbar at the top and bottom, including the taskbar with various application icons.

The screenshot shows a browser window with two tabs. The top tab displays the Lighthouse audit results for the website [https://israelgarcia666.github.io/WSD\\_Final\\_Project/index.html](https://israelgarcia666.github.io/WSD_Final_Project/index.html). The audit score is 73, with metrics: Performance (73), Accessibility (98), Best Practices (100), and SEO (91). The bottom tab shows the actual website content.

**Guillermo Jacome - Sitio Web Oficial**

**Forjando el Fuego del Metal Mexicano**

Bienvenido al sitio web oficial de Guillermo Jacome: un artista del metal mexicano cuyo trabajo encierra el poder crudo y la complejidad artística del metal. Con una pasión por transformar materiales crudos en expresiones sonoras impactantes, Jacome se ha consolidado como una figura clave en la escena del metal mexicano. Guitarrista, compositor y maestro – una fuerza impulsora del heavy metal latinoamericano desde 1995. Reconocido por sus solos incendiarios, precisión melódica y una presencia escénica dominante, ha ofrecido actuaciones inolvidables junto a Uzbel, Rasha y ex-vocalistas de Rata Blanca como Mario Iann y Gabriel Martín. Tres décadas de maestría en la guitarra líder – donde los riffs atronadores se encuentran con el alma de la guitarra ideal. Explora su discografía, descubre próximos conciertos y adéntrate en la historia de un guitarrista que continúa definiendo el sonido del rock mexicano.

**Mi historia**

Inicio | Acerca de mí | Galería | Contacto | EN | ES

### Press Kit

Guitarrista y compositor de heavy metal mexicano.

Guillermo Jacome (n. 6 de noviembre de 1977), destaca como uno de los guitarristas más versátiles y respetados de la escena metal en México. Debutó el año de su nacimiento en 1982, explorando hard rock, blues y rock clásico, perdiendo inconscientemente en latínocentrismo y más allá.

Alcanzó mayor proyección con Lurbel (1998–2009), realizando giras extensas por Estados Unidos, México, Centro y Sudamérica. De 2009 a 2012 se integró a Raxas, grabando el álbum *Rebirth* y empleando su rango creativo. Más tarde, entre 2013 y 2018, colaboró con Mario Ian (ex-Rata Blanca), ofreciendo su sonido a diferentes audiencias en México.

Paralelamente a su carrera artística, Jacome ha contribuido a la educación musical como instructor de guitarra en la Academia Echim Corona, formando a jóvenes músicos. Más recientemente, desde 2023, ha trabajado como instructor de guitarra en la Escuela de Música y Canto Online La Ley, ofreciendo su sonido a diferentes audiencias en México.

Su discografía incluye *En vivo y Detrás* (Vol. 1 y 2), *Tiempo de la Resistencia* (track de Guillermo Jacome, tributo a Judas Priest) y *Entacación* con Lurbel, *Evangelio Metálico* (remake) con Evangelium; e *Introsucción* (Raxas).

Reconocido por sus riffs potentes y su versatilidad melódica, Guillermo Jacome fusiona influencias del rock con la intensidad del heavy metal. Sus colaboraciones con figuras clave del movimiento metal latínocentro y su dedicación a la enseñanza han consolidado su legado como intérprete y mentor.

### Momentos destacados de la carrera

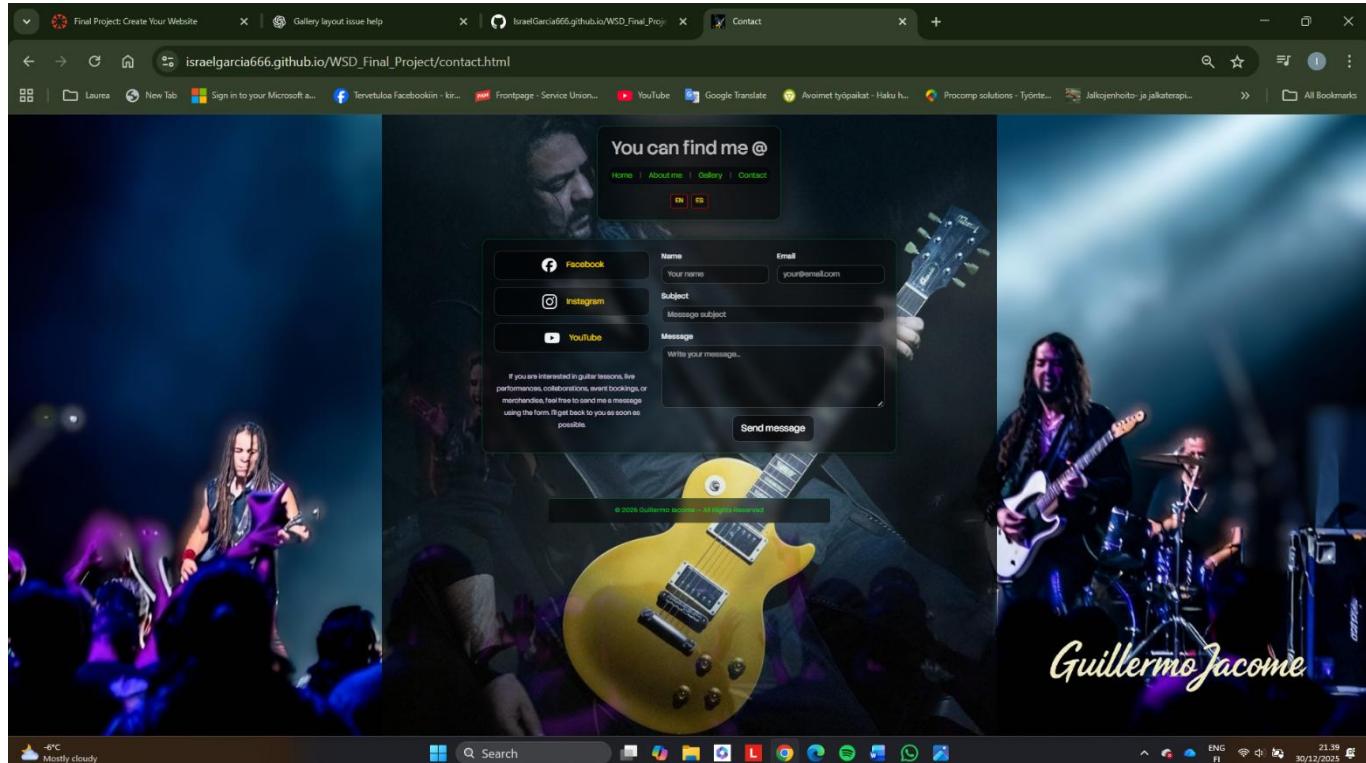
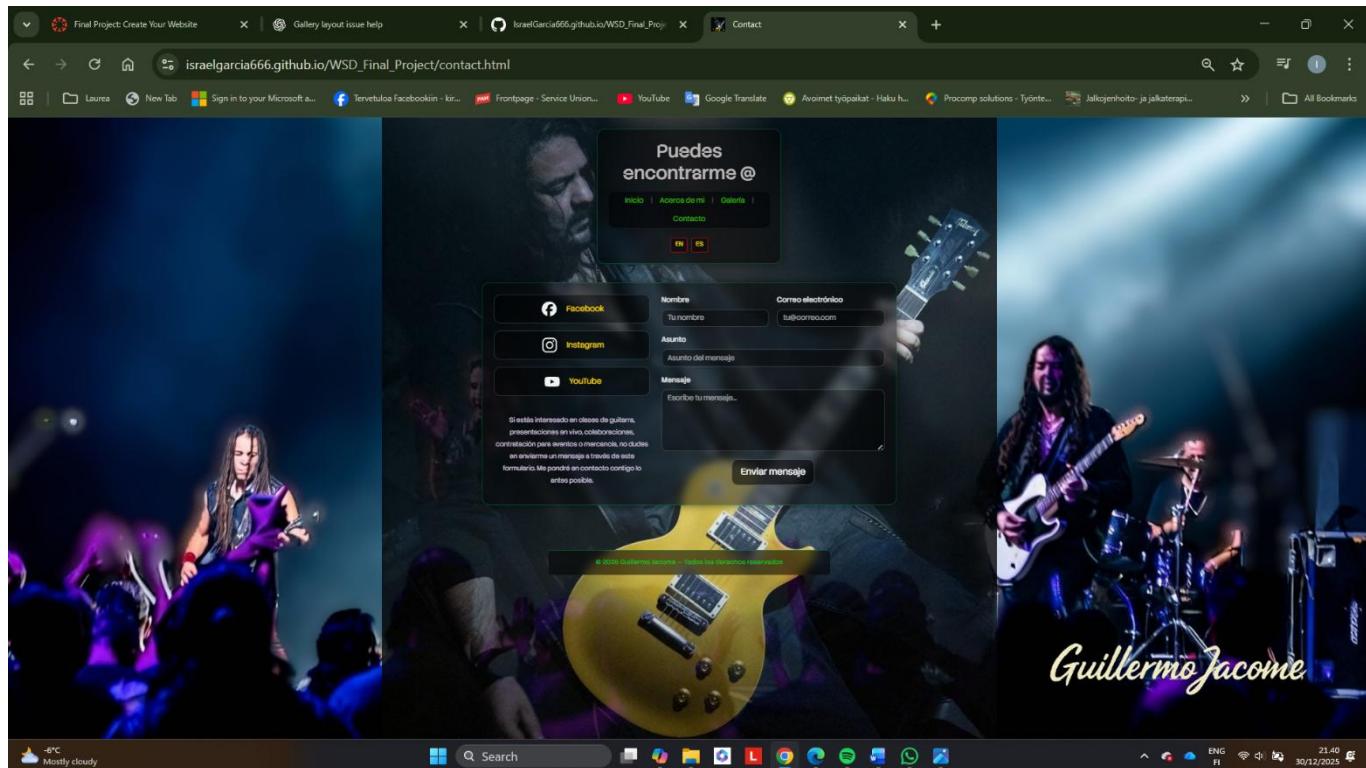
- Lurbel (1998–2009): Guillermo fue guitarrista clave de Lurbel, una de las bandas más icónicas del heavy metal mexicano, realizando giras por Estados Unidos, México, Centro y Sudamérica. Contribuyó en álbumes como *Tiempo de la Resistencia* y *Entacación*.
- Raxas (2009–2012): Se integró a Raxas, donde grabó el álbum *Instinto*.
- Mario Ian (2013–2018): Invitado por Mario Ian, ex-vocalista de Rata Blanca, para tocar guitarra en sus giras por Norteamérica, fortaleciendo su reputación en la escena metal latínocentro.
- Carrera docente: Se desempeñó como instructor de guitarra en la Academia Echim Corona, donde fue reconocido como profesor líder de guitarras eléctricas por su versatilidad y dominio técnico.
- Trabajo reciente (2023–presente): Colabora con Gabriel Marín (ex-Rata Blanca) y David Chirino (La Ley), presentándose en una serie de conciertos en México y manteniendo una activa presencia en escena.

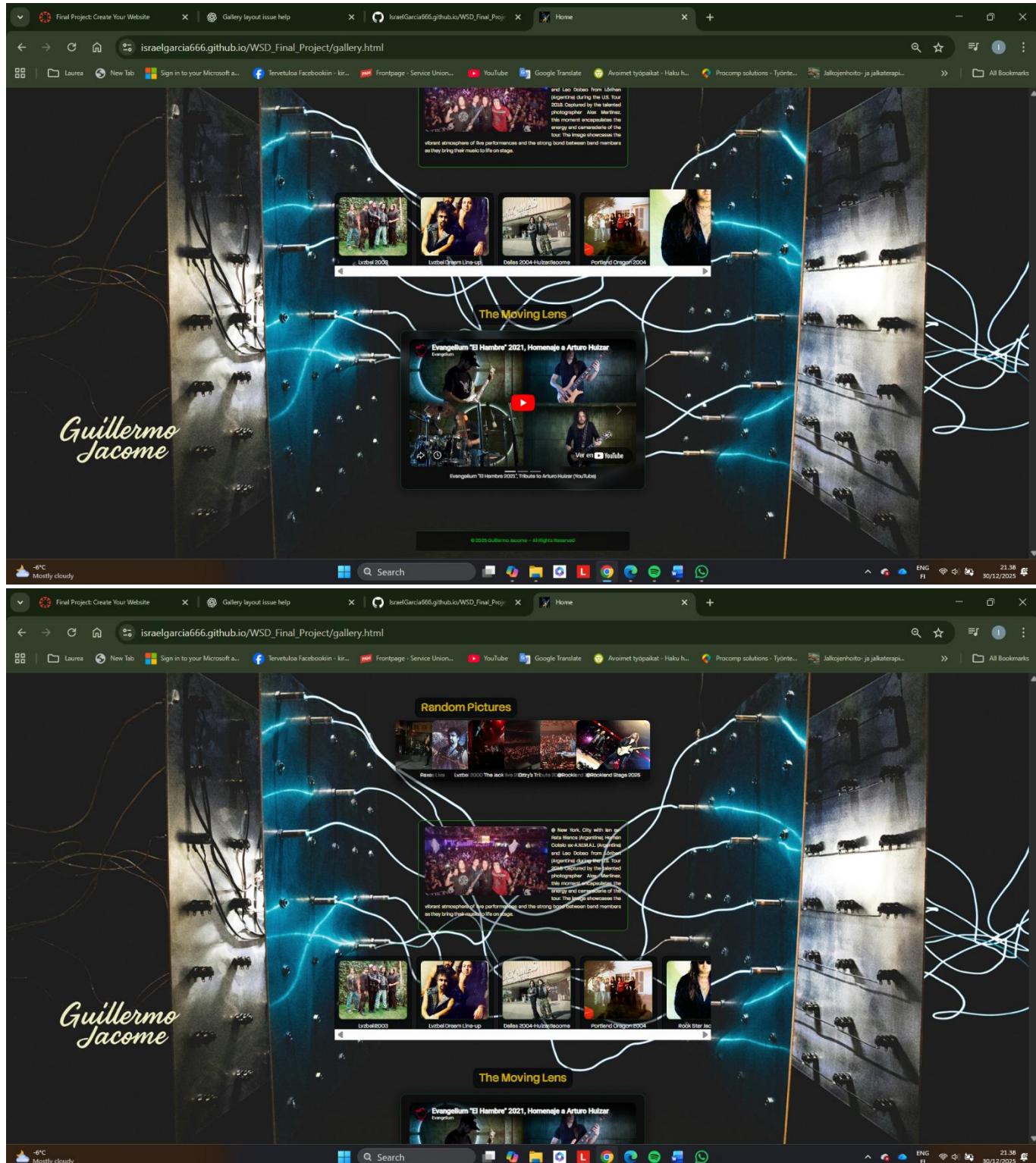
**El Viaje a Través del Lente**

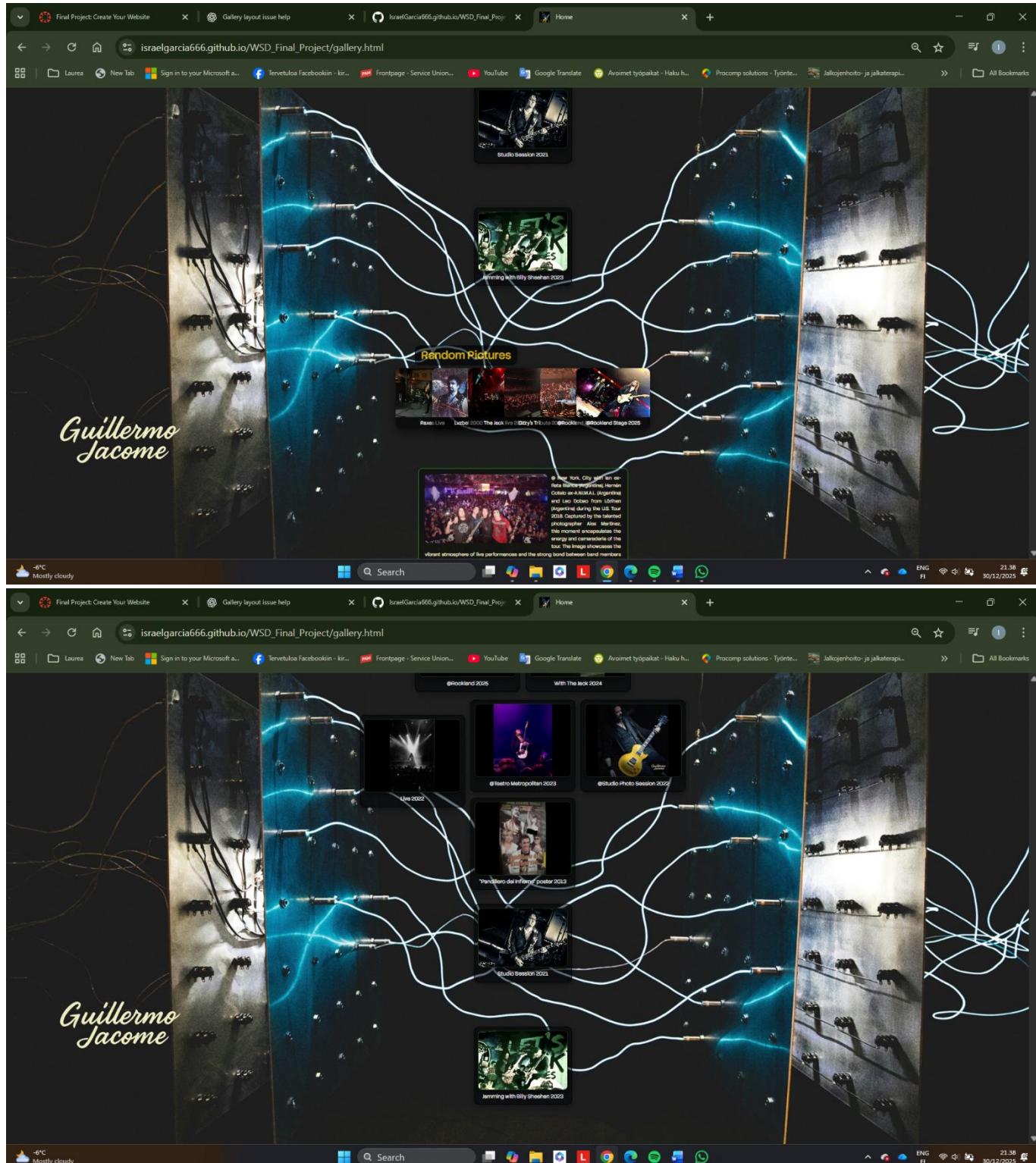
Inicio | Acerca de mí | Galería | Contacto | EN | ES

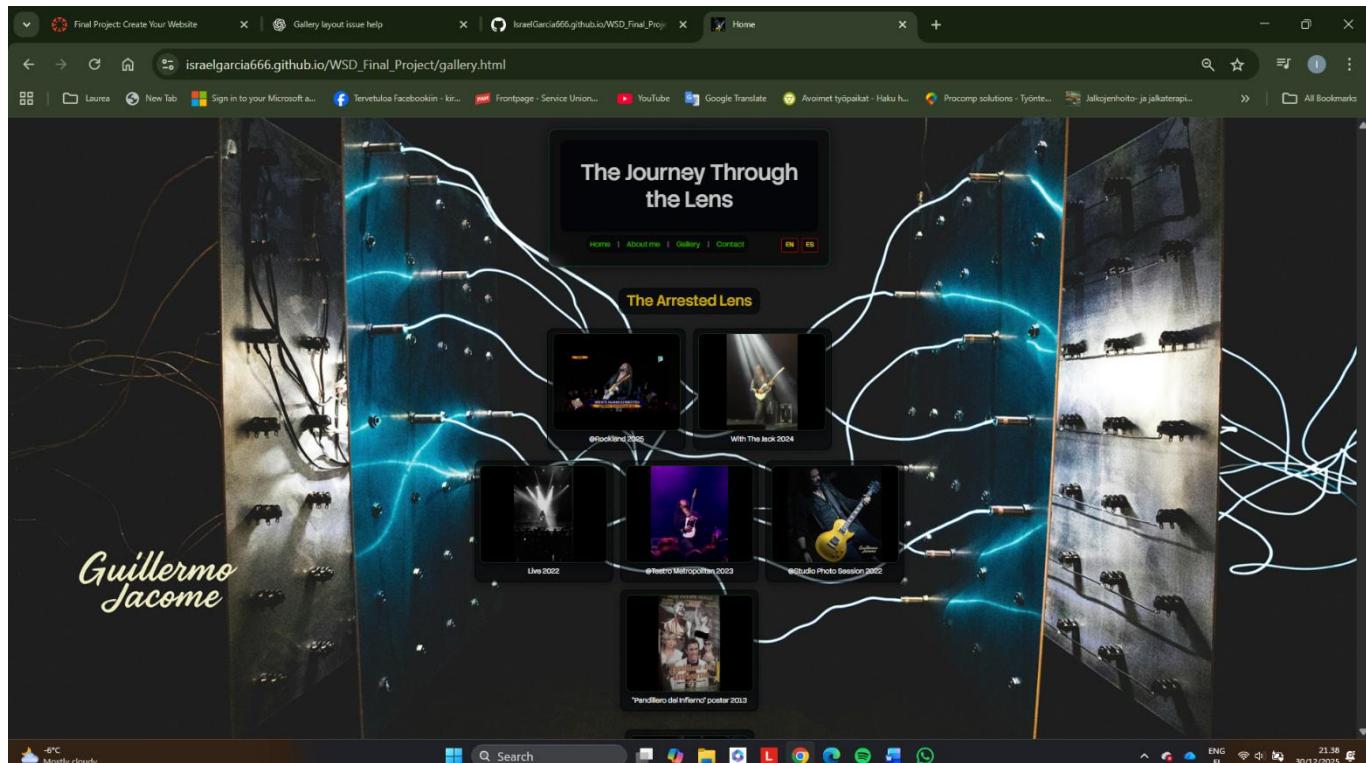
### El Lente Estático

Live 2022 | With The Jack 2004 | Studio Photo Session 2022 | "Pendiente del Infarto" poster 2013 | Live 2022









The Journey Through the Lens

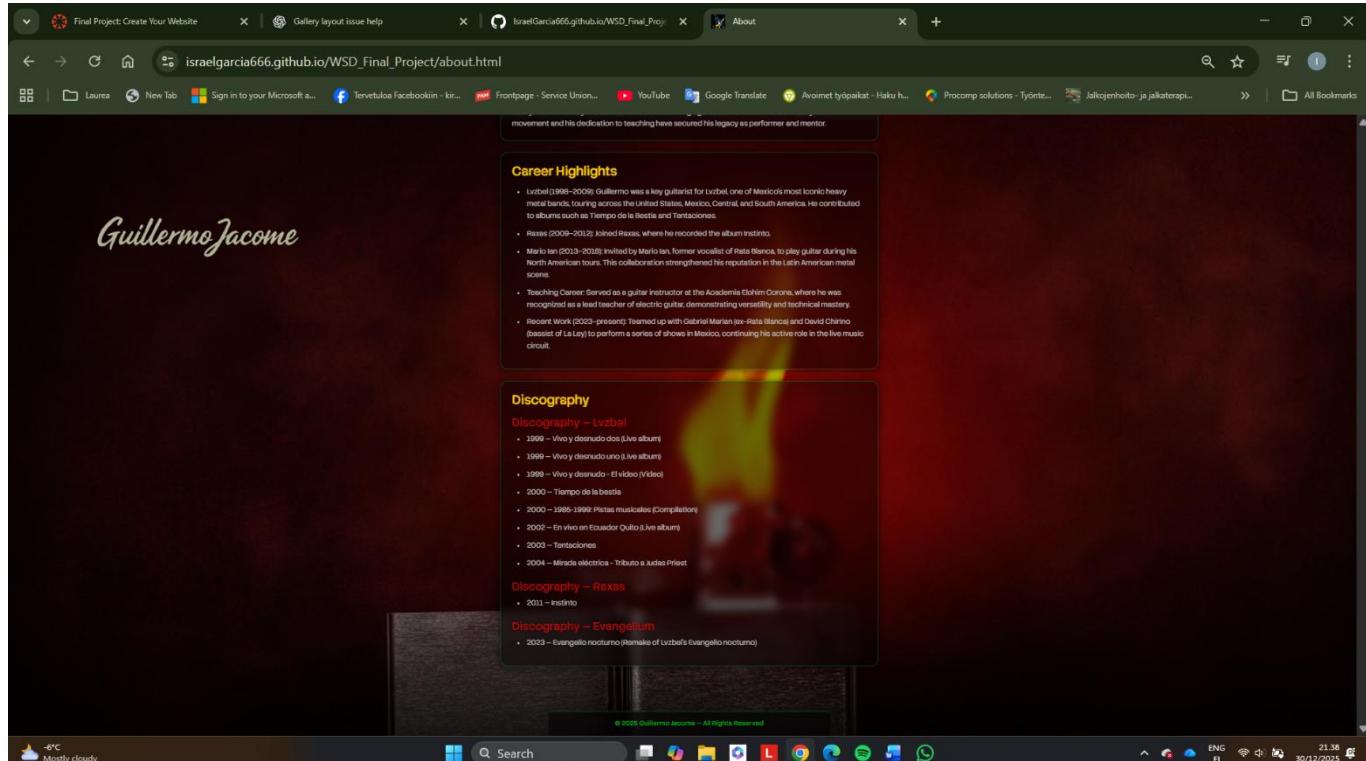
Home | About me | Gallery | Contact | EN | ES

**The Arrested Lens**

Guillermo Jacome

Rock in Rio 2002 | With The Rock 2004 | Live 2022 | Teatro Metropolitan 2023 | Studio Photo Session 2022 | Pendleton del Infarto poster 2013

-6°C Mostly cloudy | Search | Windows Start | Taskbar icons | 21:38 | 30/12/2025

movement and his dedication to teaching have secured his legacy as performer and mentor.

**Career Highlights**

- Lzbel (1996–2009) Guillermo was a key guitarist for Lzbel, one of Mexico's most iconic heavy metal bands, touring across the United States, Mexico, Central, and South America. He contributed to albums such as *Tiempo de la bestia* and *Fantasmas*.
- Rexes (2009–2012) Joined Rexes, where he recorded the album *Instito*.
- Mario Ira (2013–2018) Invited by Mario Ira, former vocalist of Rata Blanca, to play guitar during his North American tours. This collaboration strengthened his reputation in the Latin American metal scene.
- Teaching Career Served as a guitar instructor at the Academia Robín Corona, where he was recognized as a lead teacher of electric guitar, demonstrating versatility and technical mastery.
- Recent Work (2023–present) Teamed up with Gabriel Maran (ex-Rata Blanca) and David Chirino (bassist of La Ley) to perform a series of shows in Mexico, continuing his active role in the live music circuit.

**Discography**

**Discography – Lzbel**

- 1996 – Vivo y desnudo dos (Live album)
- 1996 – Vivo y desnudo uno (Live album)
- 1996 – Vivo y desnudo – El video (Video)
- 2000 – Tiempo de la bestia
- 2000 – 1996–1999 Platas musicales (Compilation)
- 2002 – En vivo en Ecuador Quito (Live album)
- 2003 – Fantasmas
- 2004 – Mirada eléctrica – Tributo a Judas Priest

**Discography – Rexes**

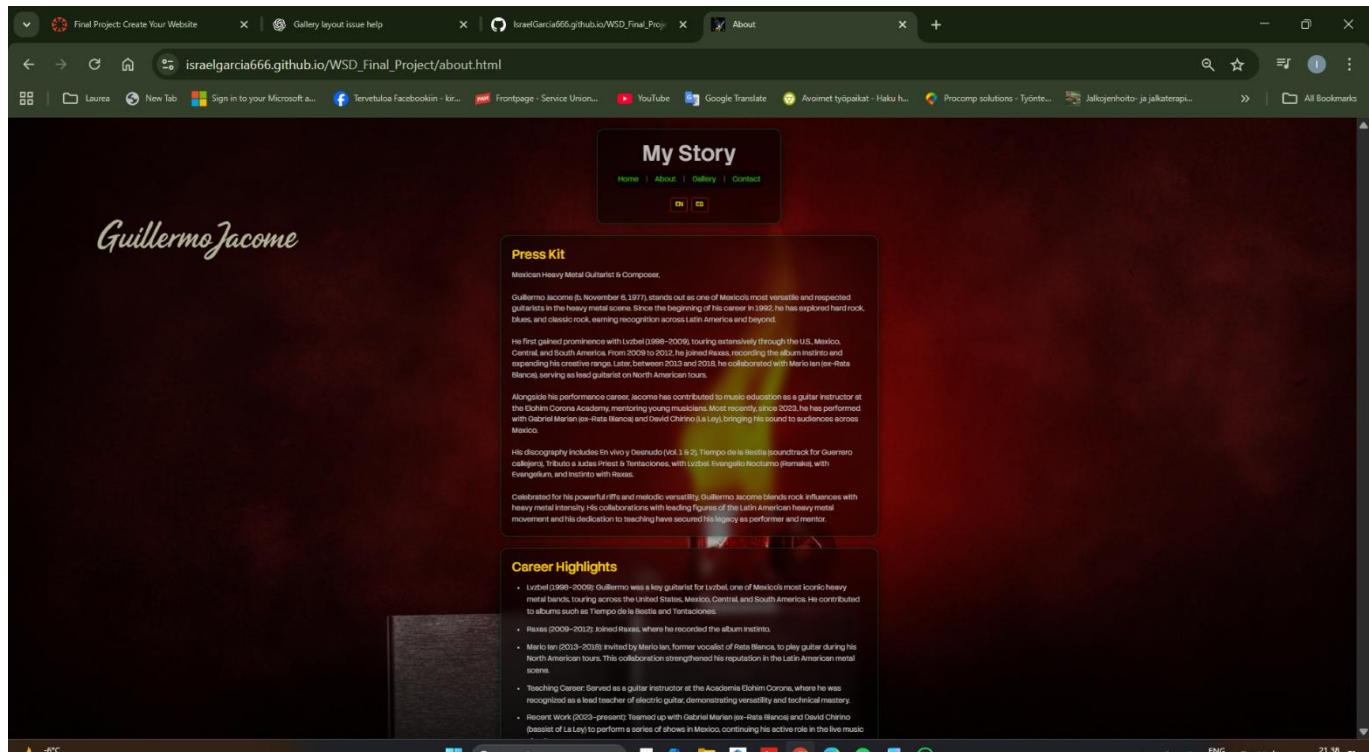
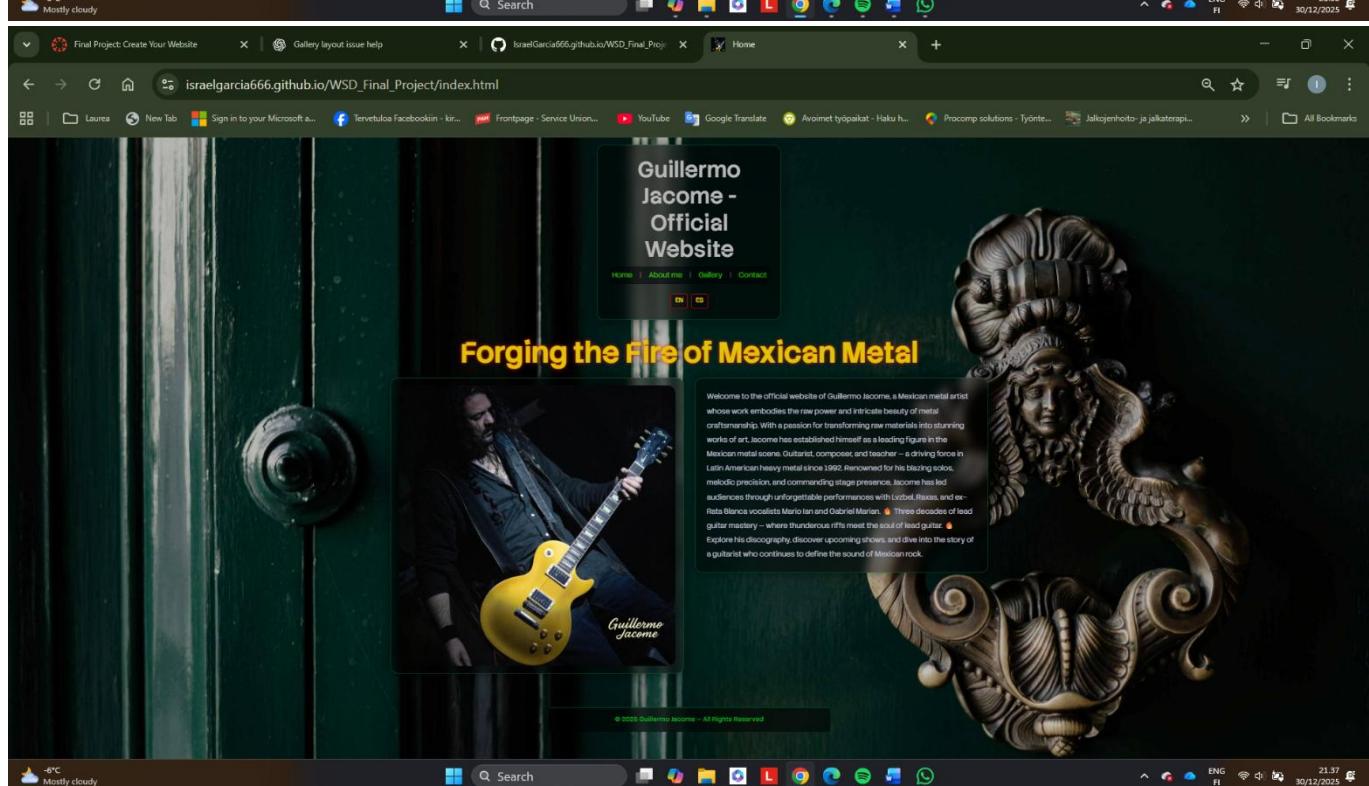
- 2013 – Instito

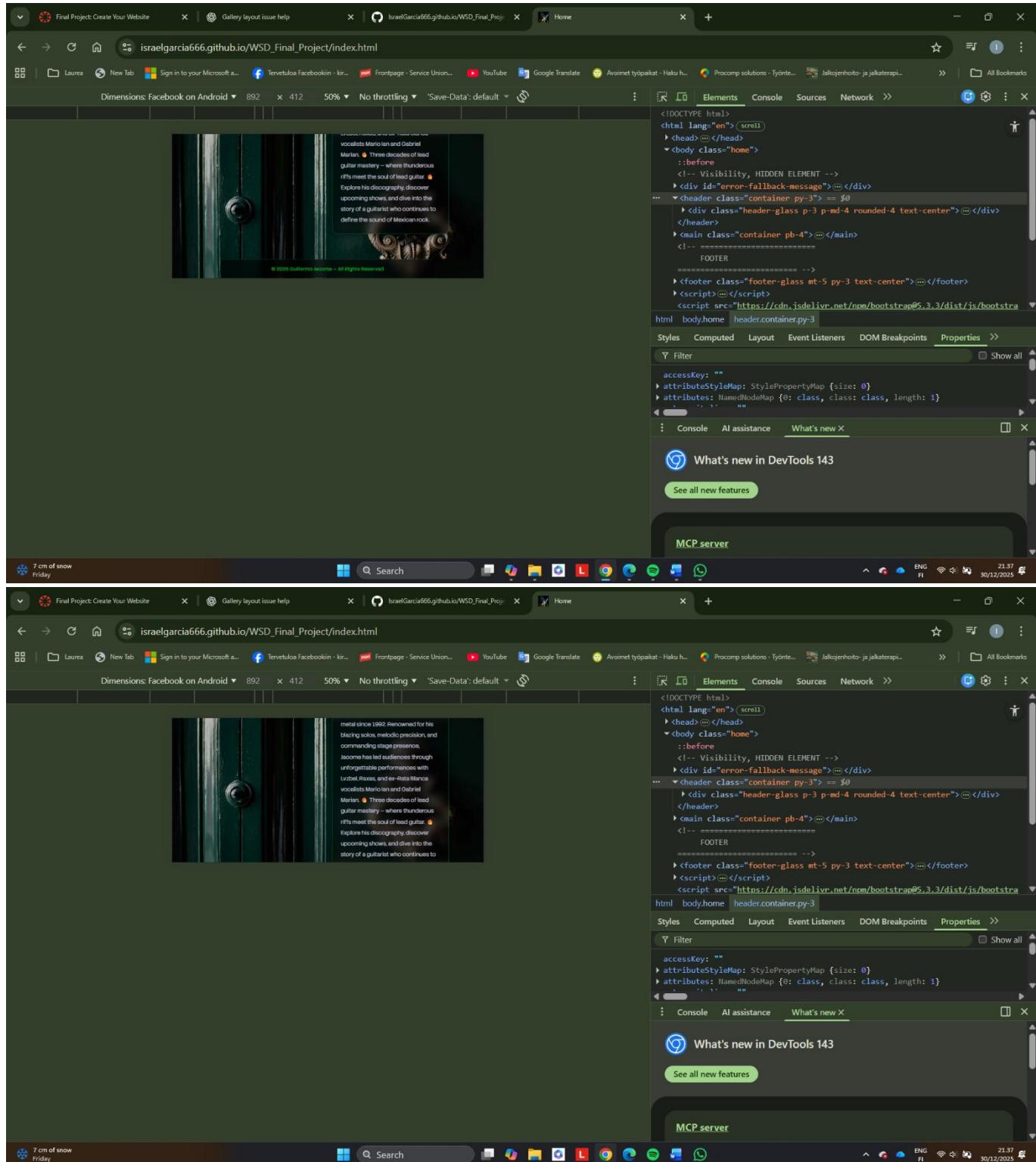
**Discography – Evangelium**

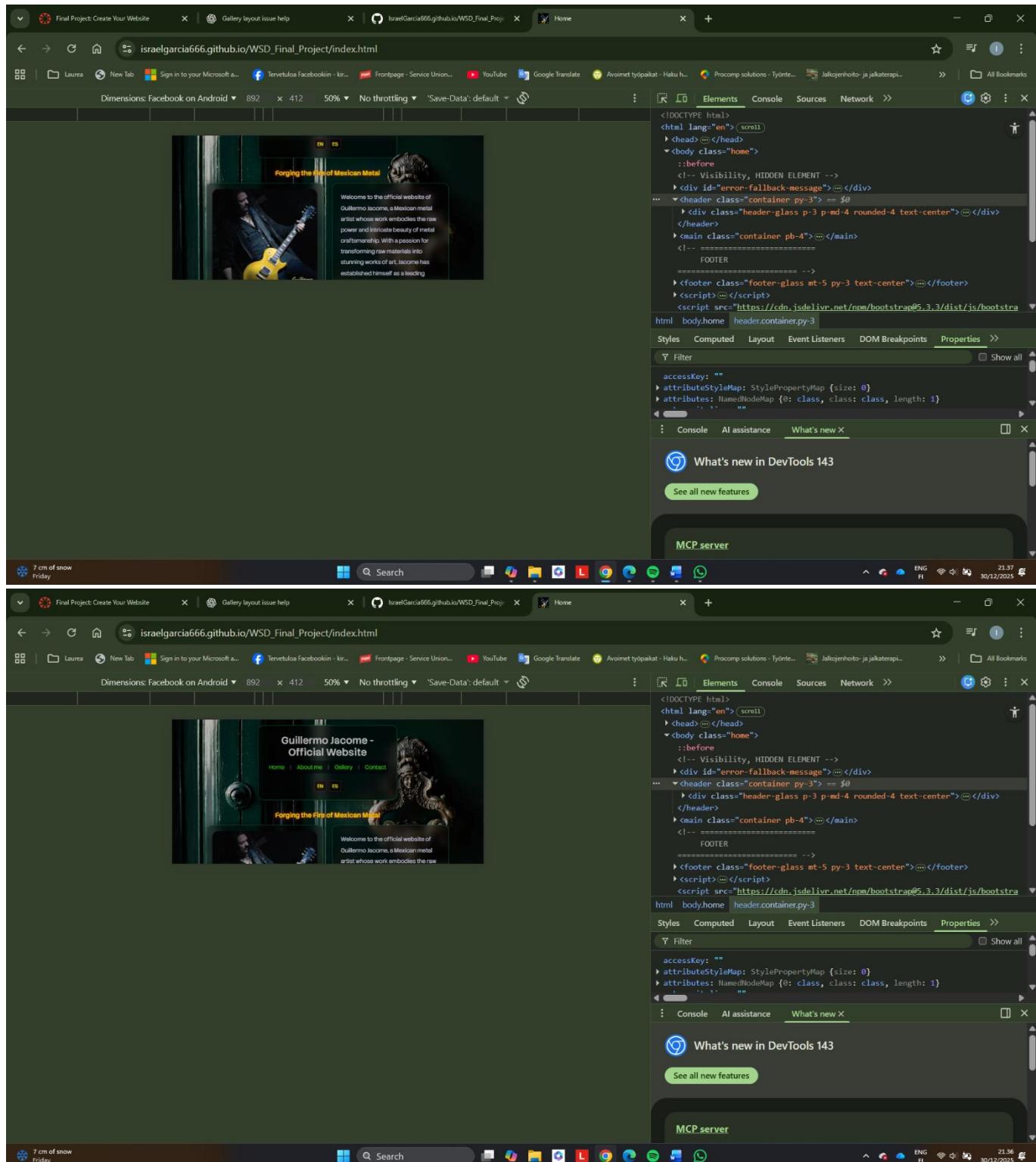
- 2023 – Evangelio nocturno (Remake of Lzbel's Evangelio nocturno)

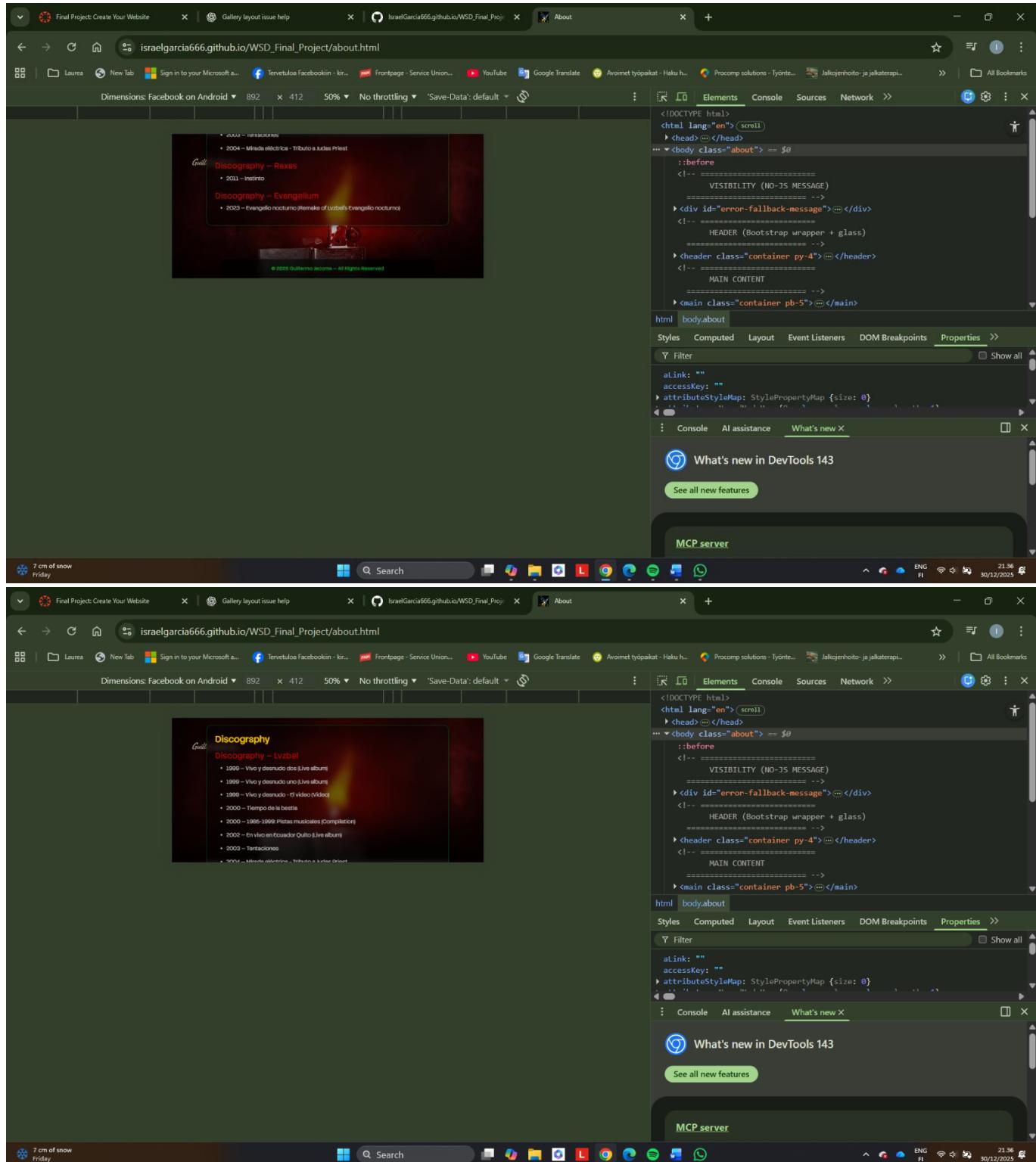
© 2025 Guillermo Jacome – All Rights Reserved

-6°C Mostly cloudy | Search | Windows Start | Taskbar icons | 21:38 | 30/12/2025



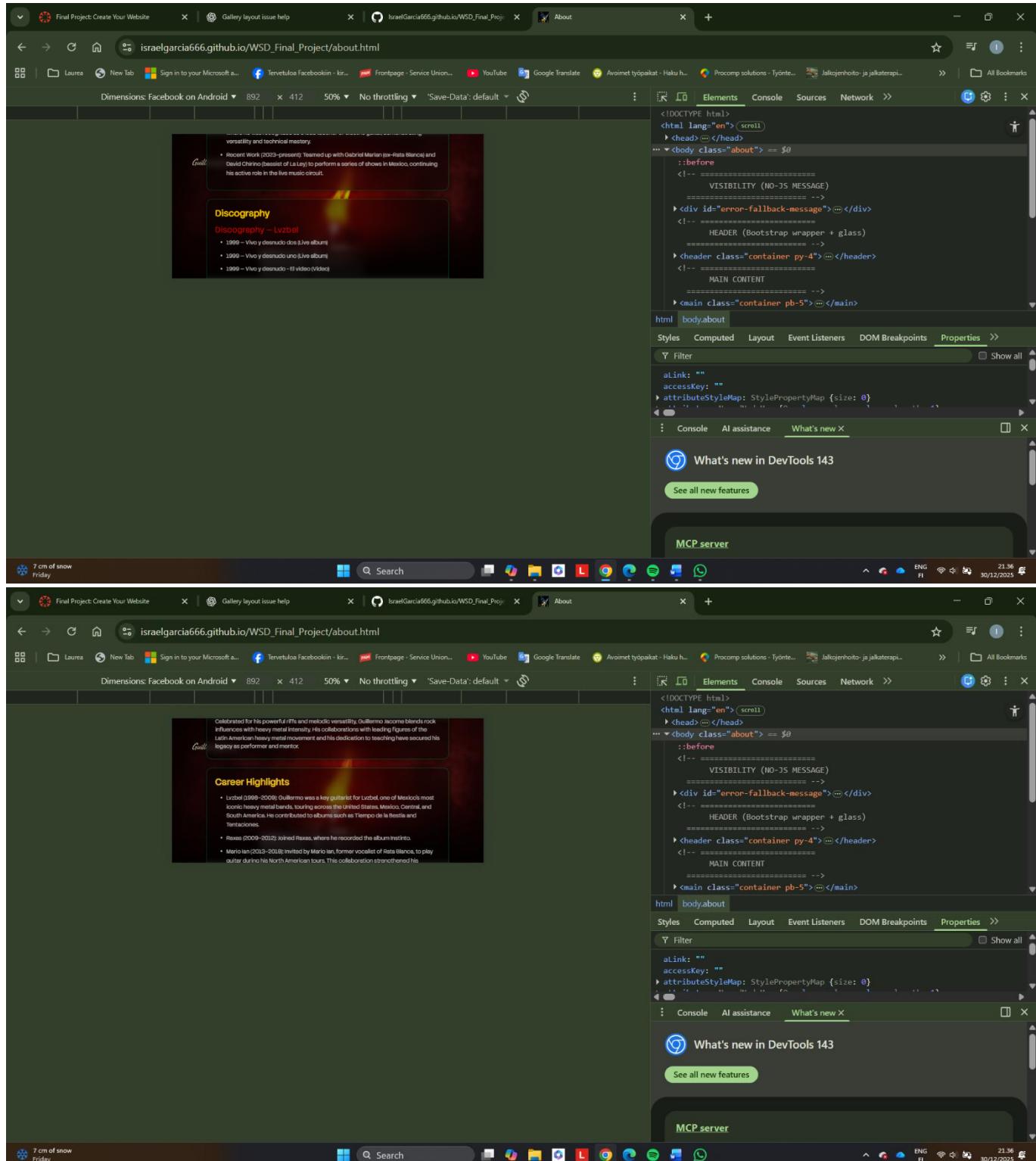




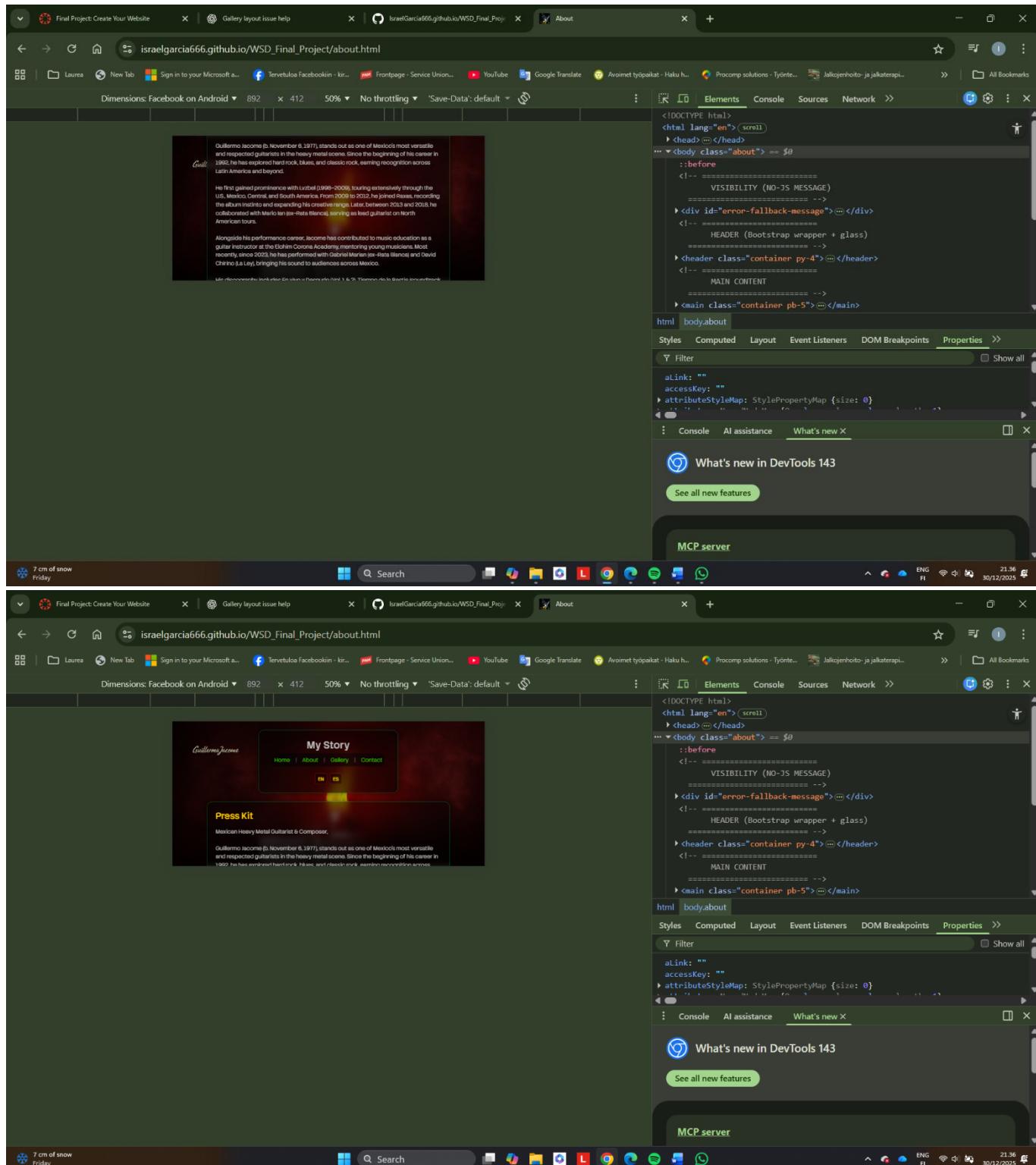
The screenshot shows a web browser window with two tabs open. The active tab is 'israelgarcia666.github.io/WSD\_Final\_Project/about.html'. The page content is a 'Discography' section for 'Luzbel', listing albums from 1990 to 2004. The browser's developer tools are visible on the right side, with the 'Elements' tab selected. The 'Properties' tab is also open, showing the CSS styles for the current element. The browser's toolbar and taskbar are visible at the bottom.

**Discography - Luzbel**

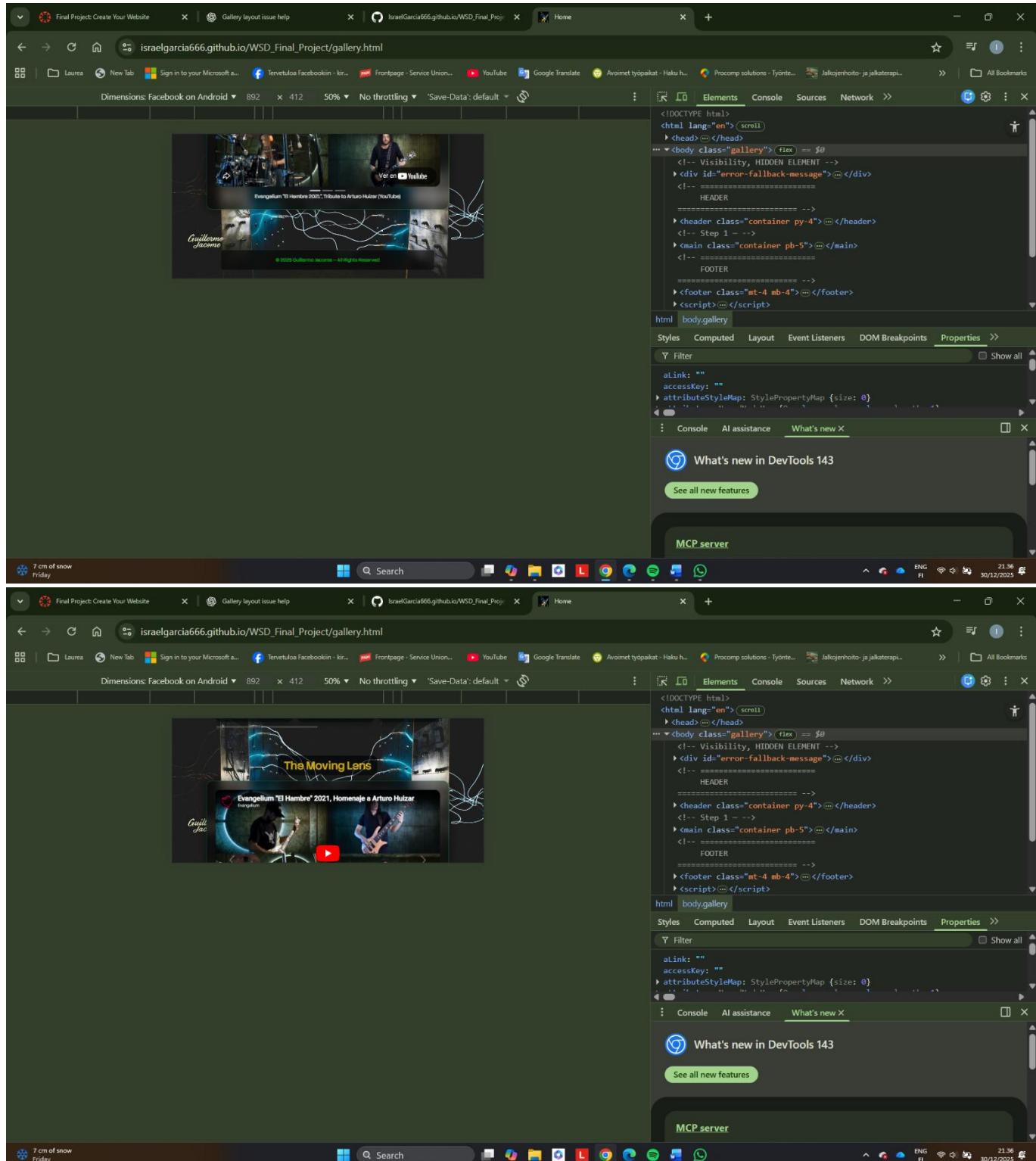
- 1990 – Vivo y destruto dos (Live album)
- 1990 – Vivo y destruto uno (Live album)
- 1999 – Vivo y destruto II (Video / Video)
- 2000 – Tiempo de la bestia
- 2000 – 1986-1999 Peñas musicales (Compilation)
- 2002 – En vivo en Ecuador Quito (Live album)
- 2003 – Tentaciones
- 2004 – Mirada efectista - Tributo a Jules Priest
- 2011 – Instinto
- Discography - Evangelium**
- 2023 – Evangelio nocturno (Remake of Luzbel's Evangelio nocturno)

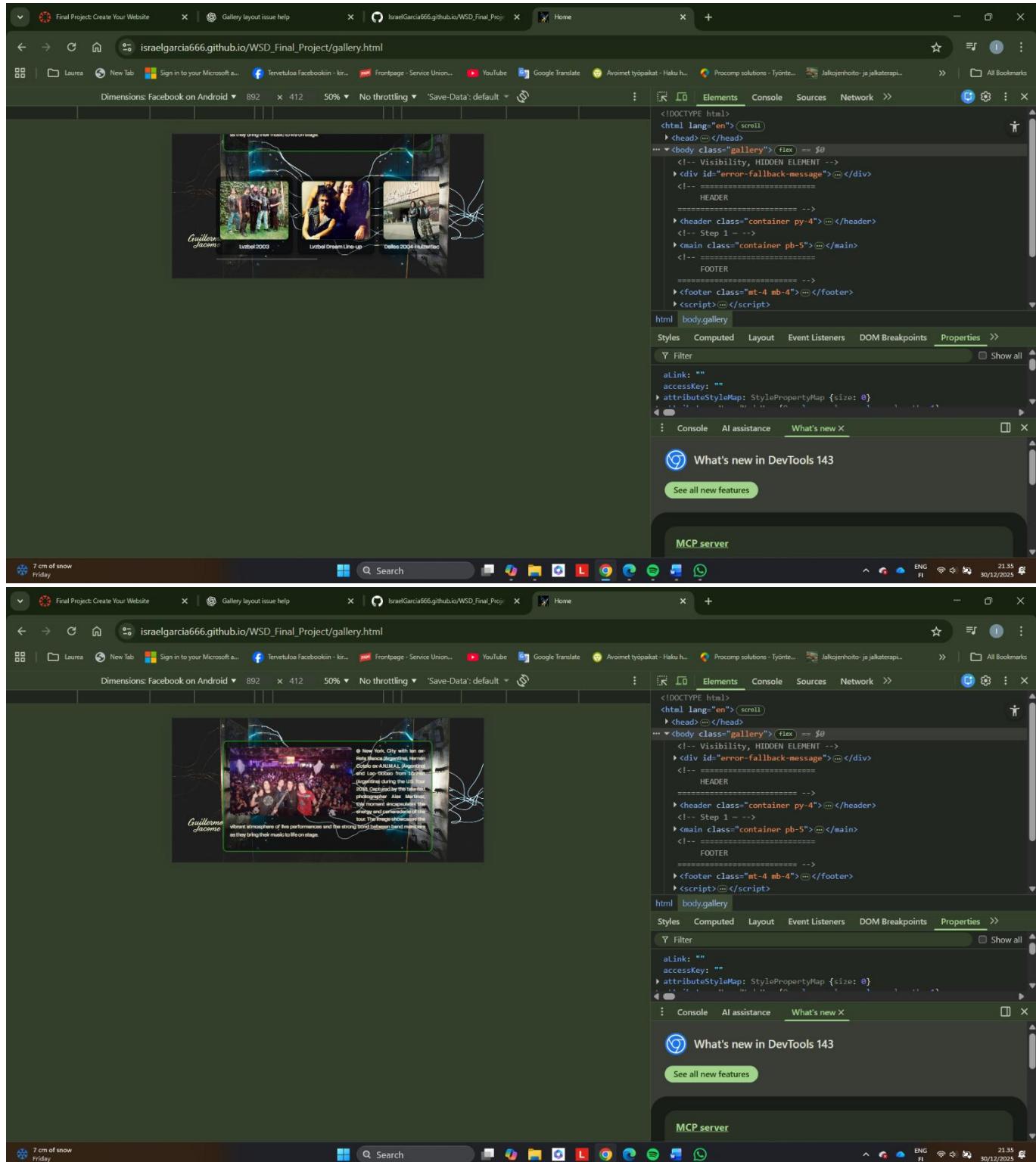


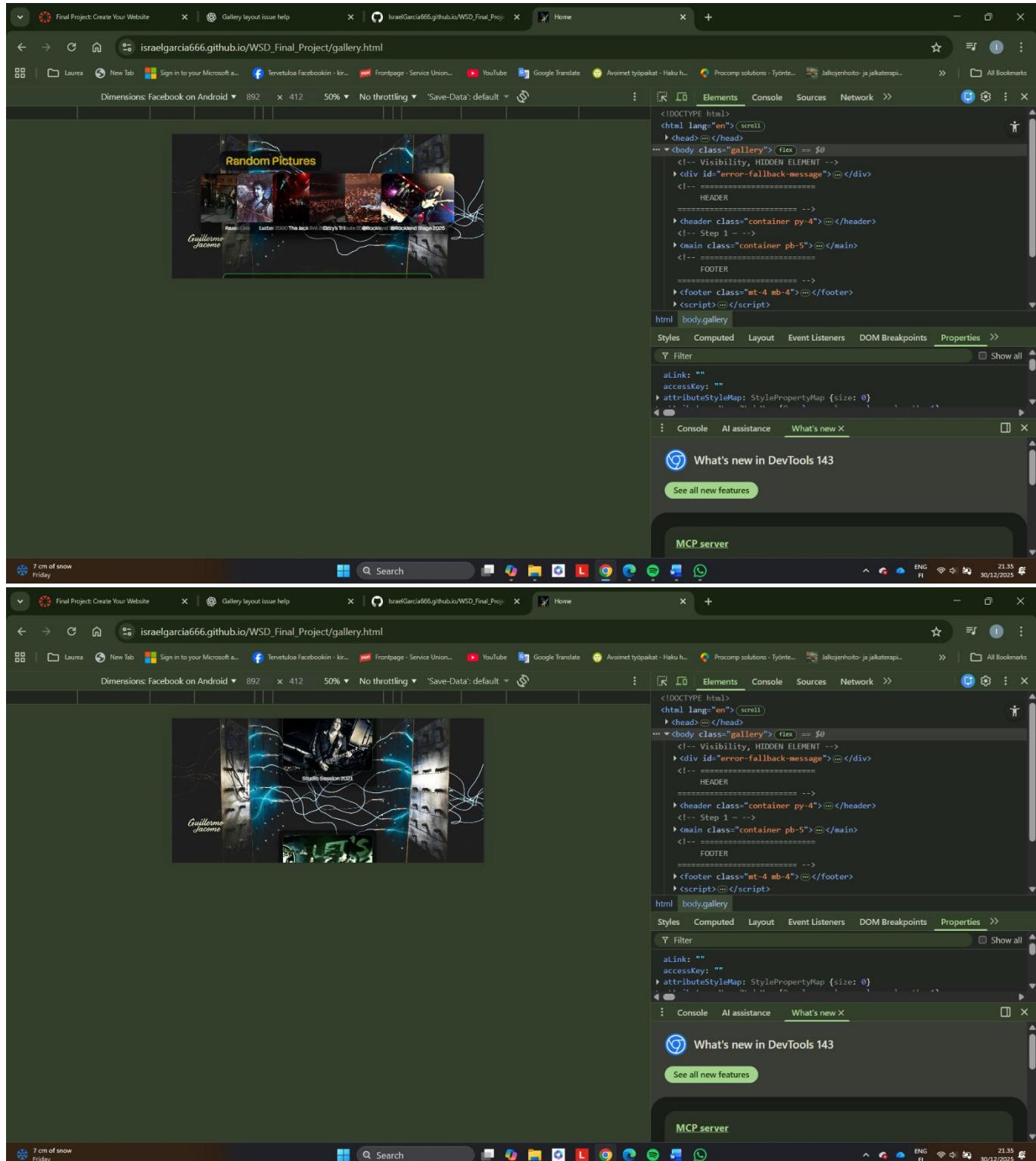
The screenshot shows a web browser window with two tabs open. The active tab displays the 'About' page of a website at [israelgarcia666.github.io/WSD\\_Final\\_Project/about.html](https://israelgarcia666.github.io/WSD_Final_Project/about.html). The page content includes a bio section for Guillermo Lpez and a 'Discography' section listing three albums. The browser's developer tools are open, showing the DOM structure and styles for the 'about' page. The browser interface includes a toolbar, address bar, and system tray.

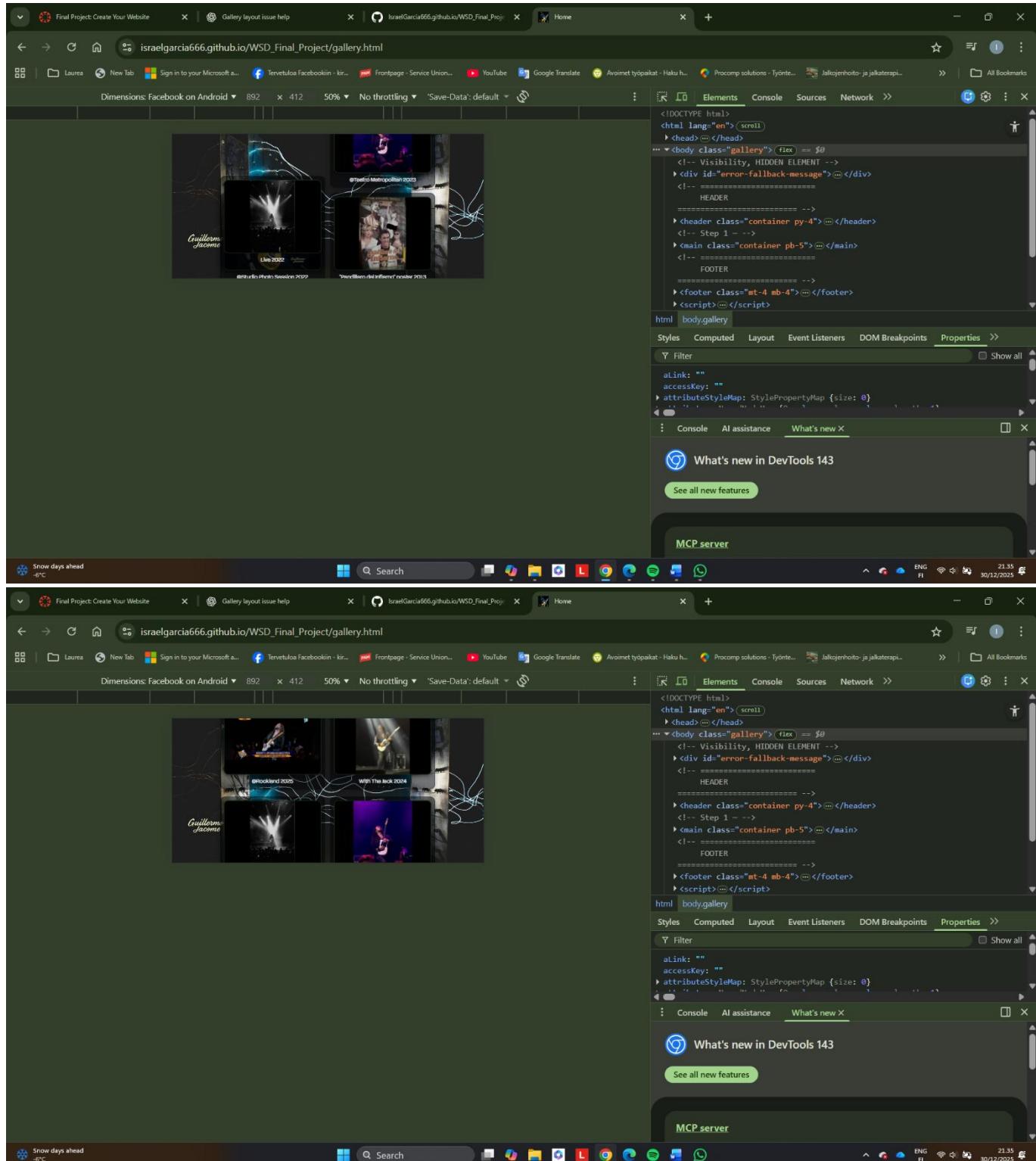


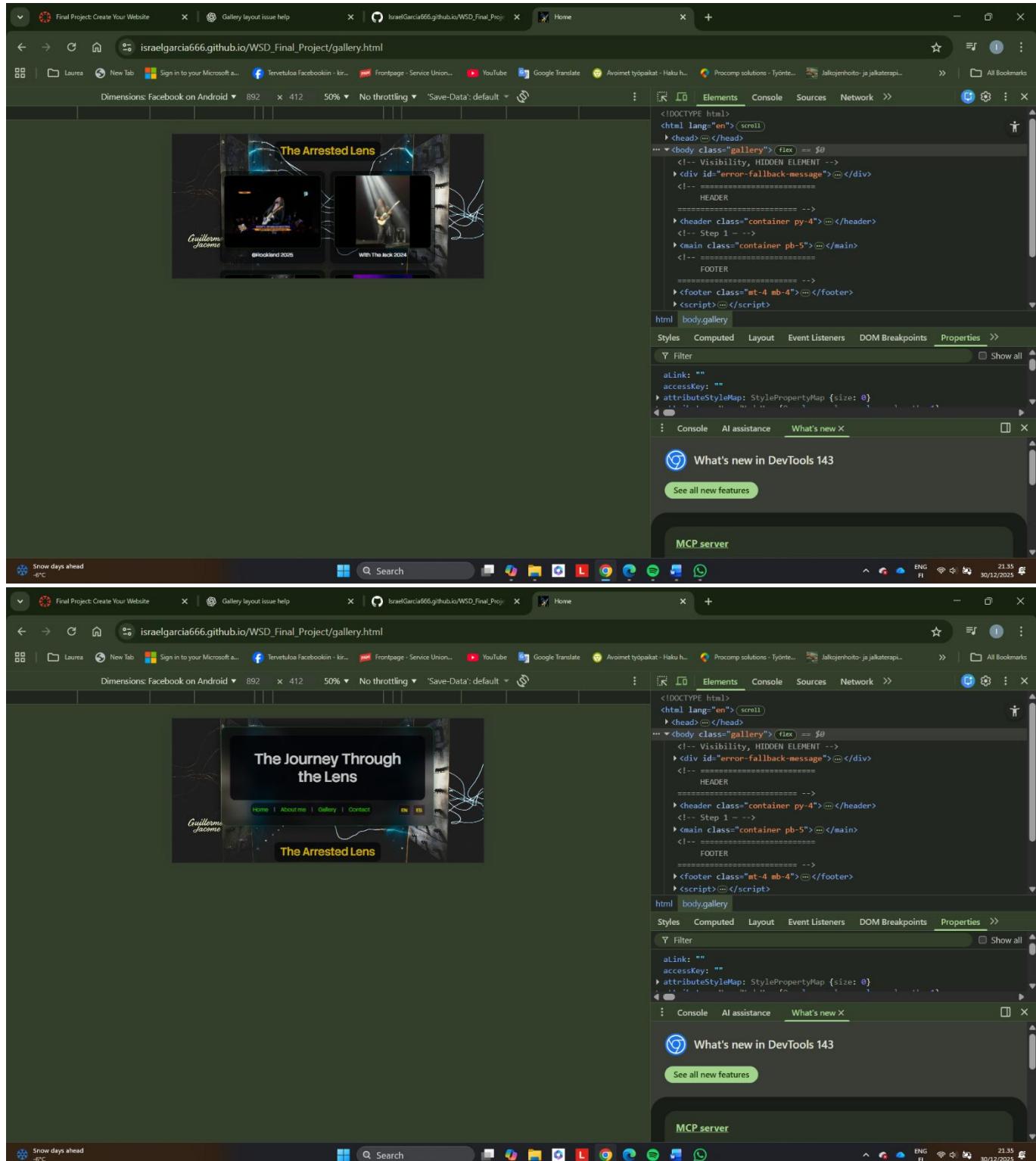
The screenshot shows a web browser window with the URL [israelgarcia666.github.io/WSD\\_Final\\_Project/about.html](https://israelgarcia666.github.io/WSD_Final_Project/about.html). The page content includes a bio for Guillermo Jacone, a 'My Story' section with navigation links (Home, About, Gallery, Contact), and a 'Press Kit' section. The browser's developer tools are open, displaying the DOM structure, styles, and scripts. A sidebar in the developer tools shows a 'What's new in DevTools 143' update.

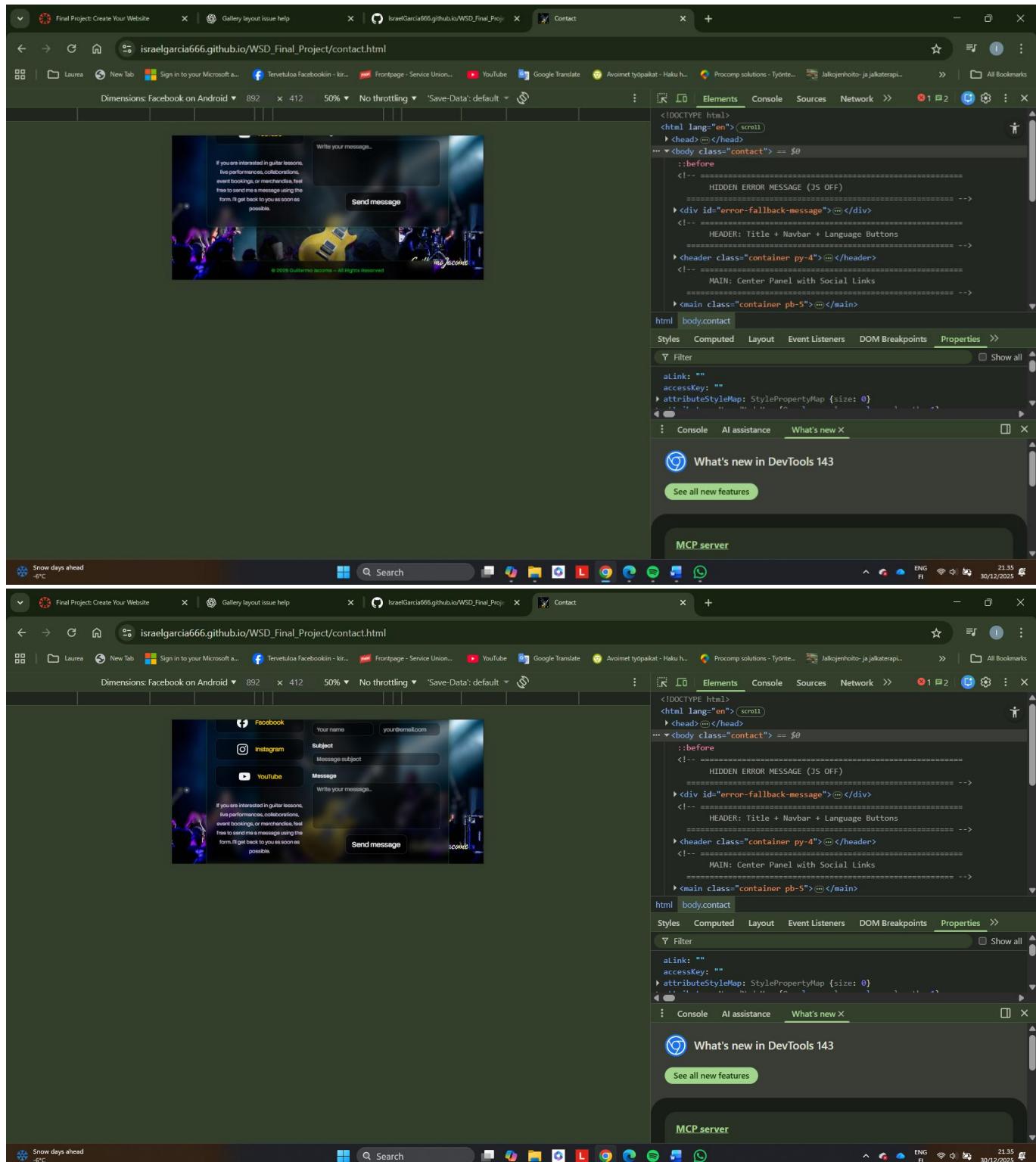




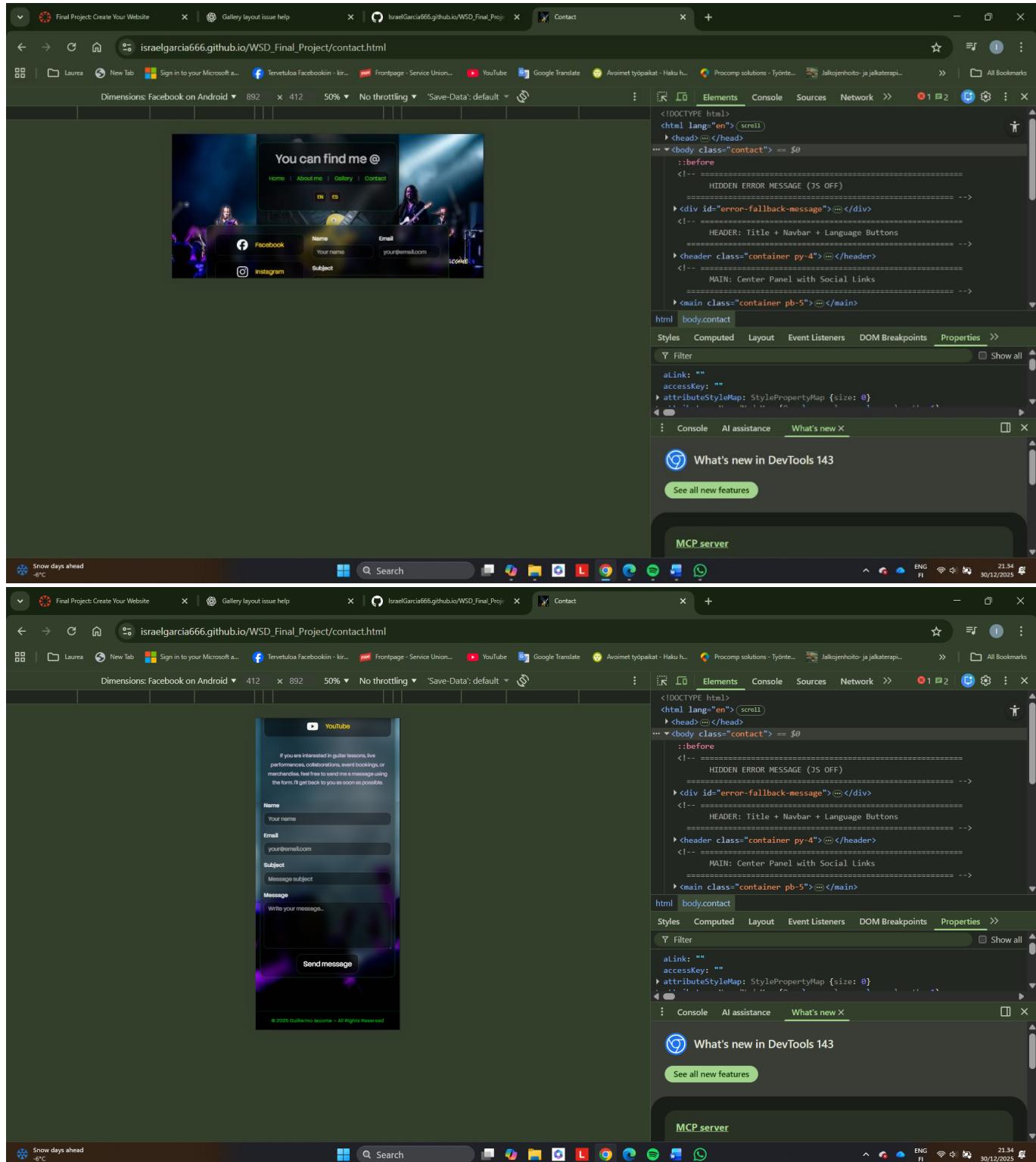




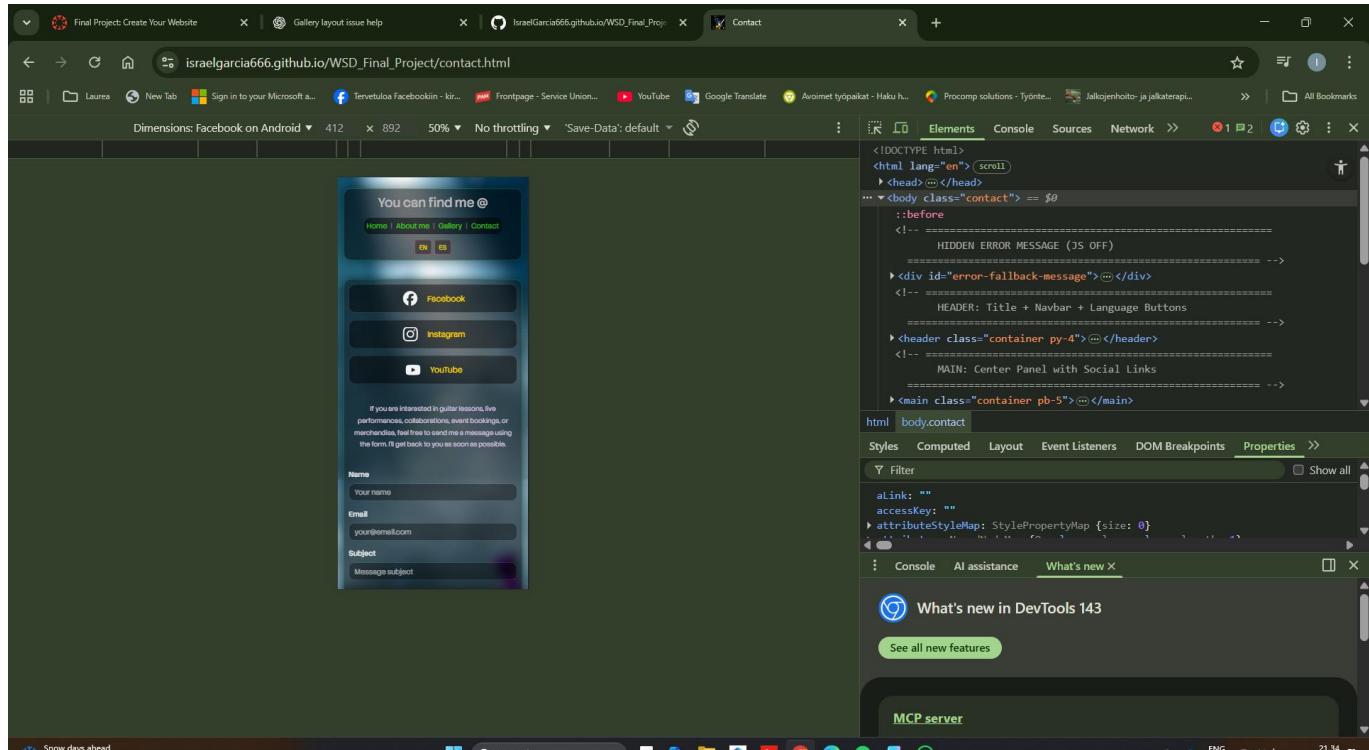
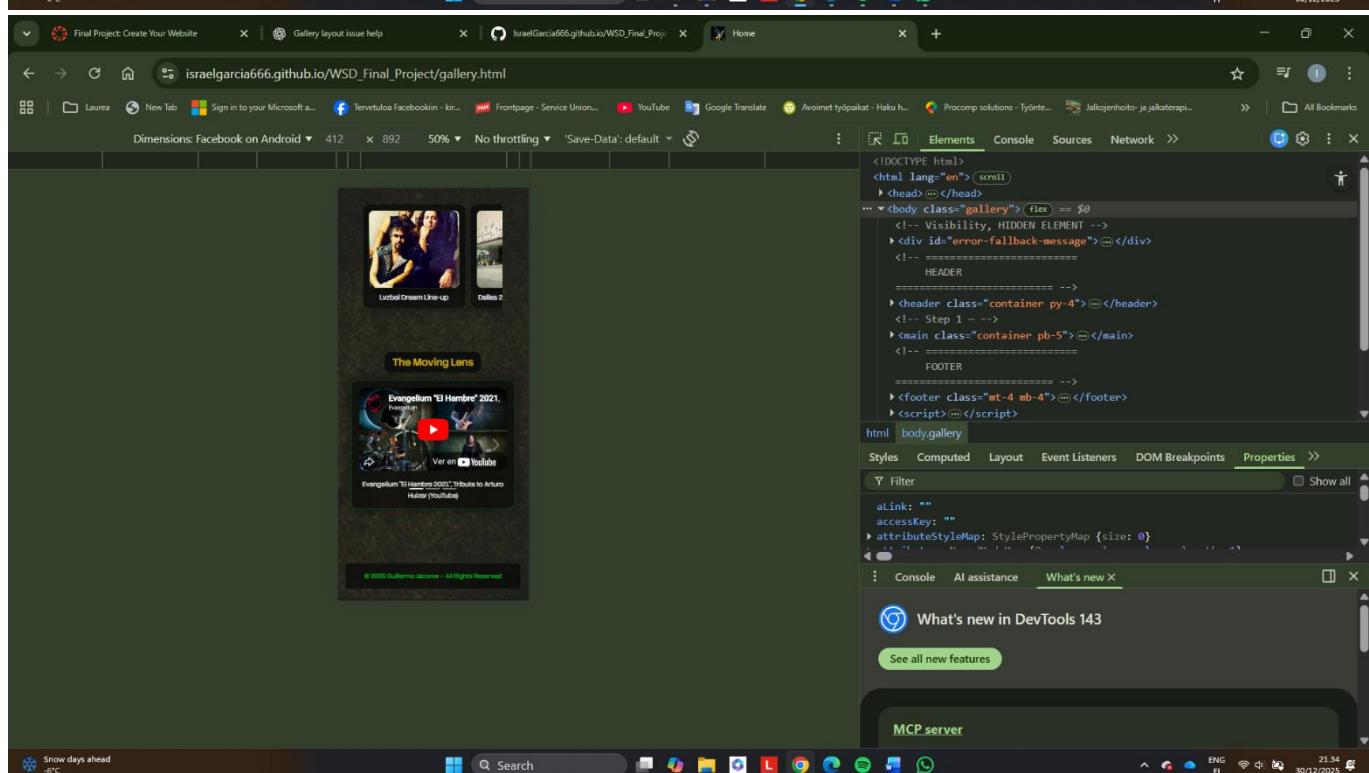


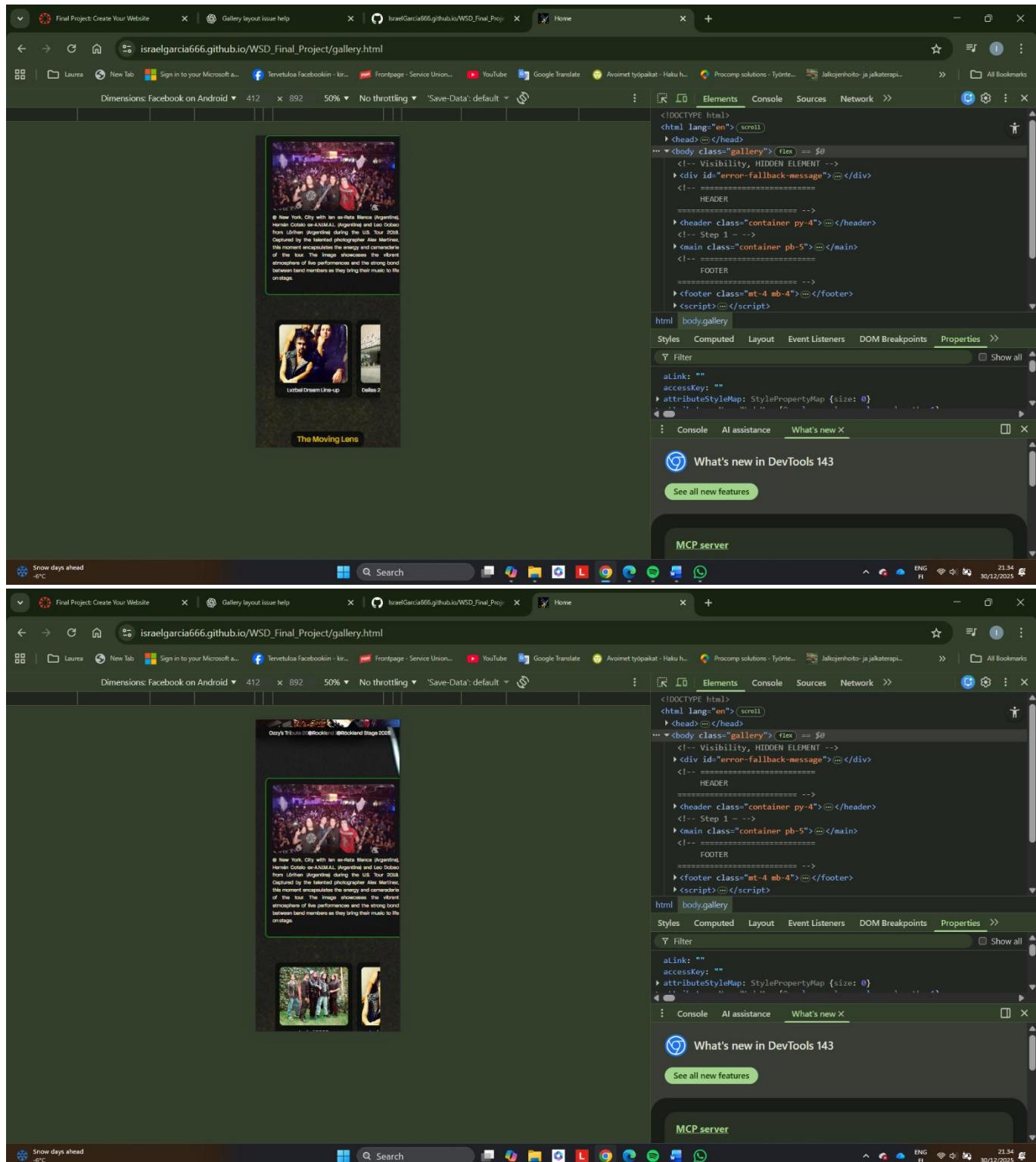


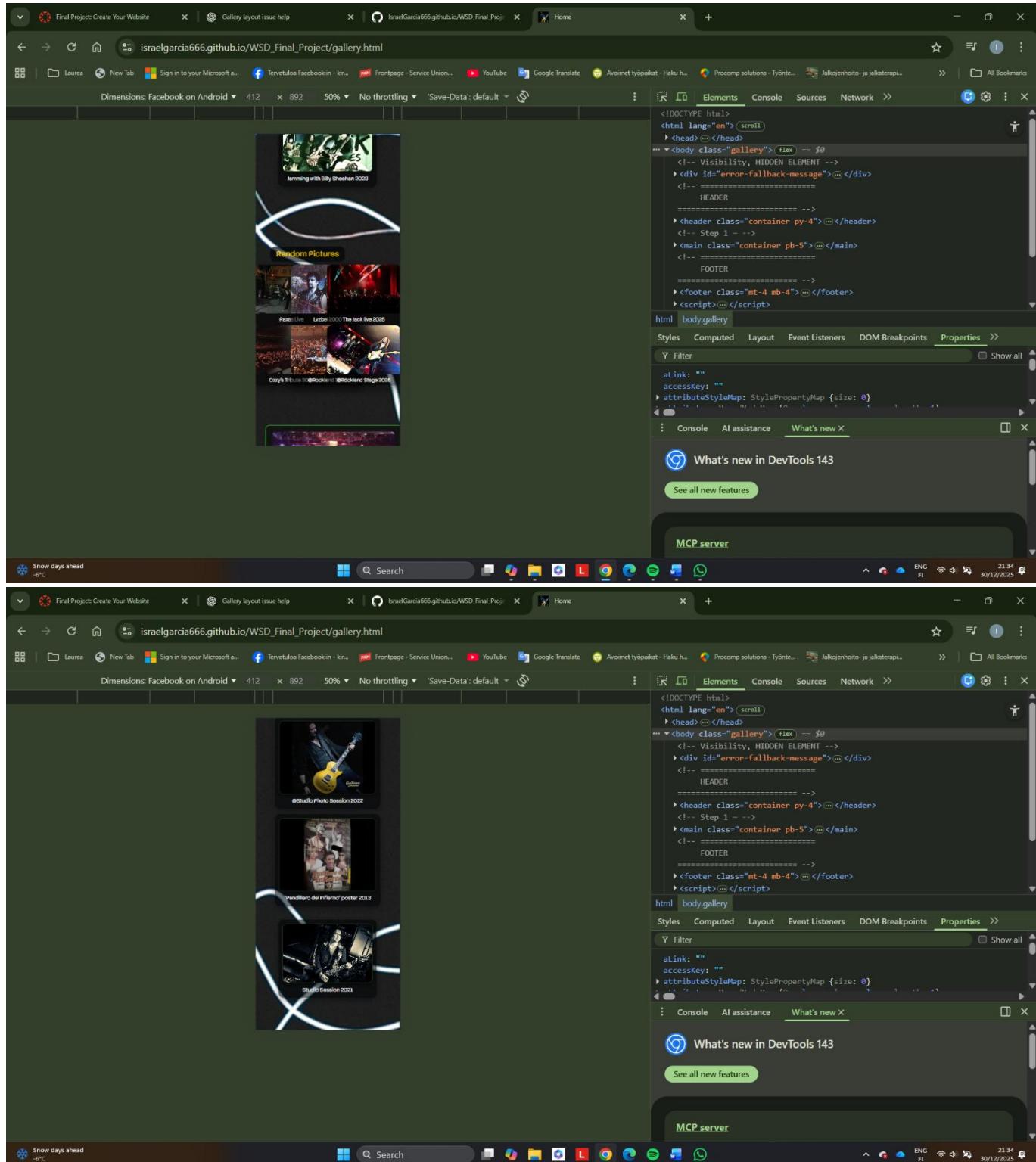
The screenshot shows a web browser window with the URL [israelgarcia666.github.io/WSD\\_Final\\_Project/contact.html](https://israelgarcia666.github.io/WSD_Final_Project/contact.html). The page content is a contact form with a dark, artistic background featuring a guitar player silhouette. The browser's developer tools are open, specifically the Elements and Properties tabs. The Elements tab displays the HTML structure of the page, including the header, body, and various components like the message form and social media links. The Properties tab shows the CSS styles applied to the selected element. A sidebar on the right provides information about new features in DevTools.

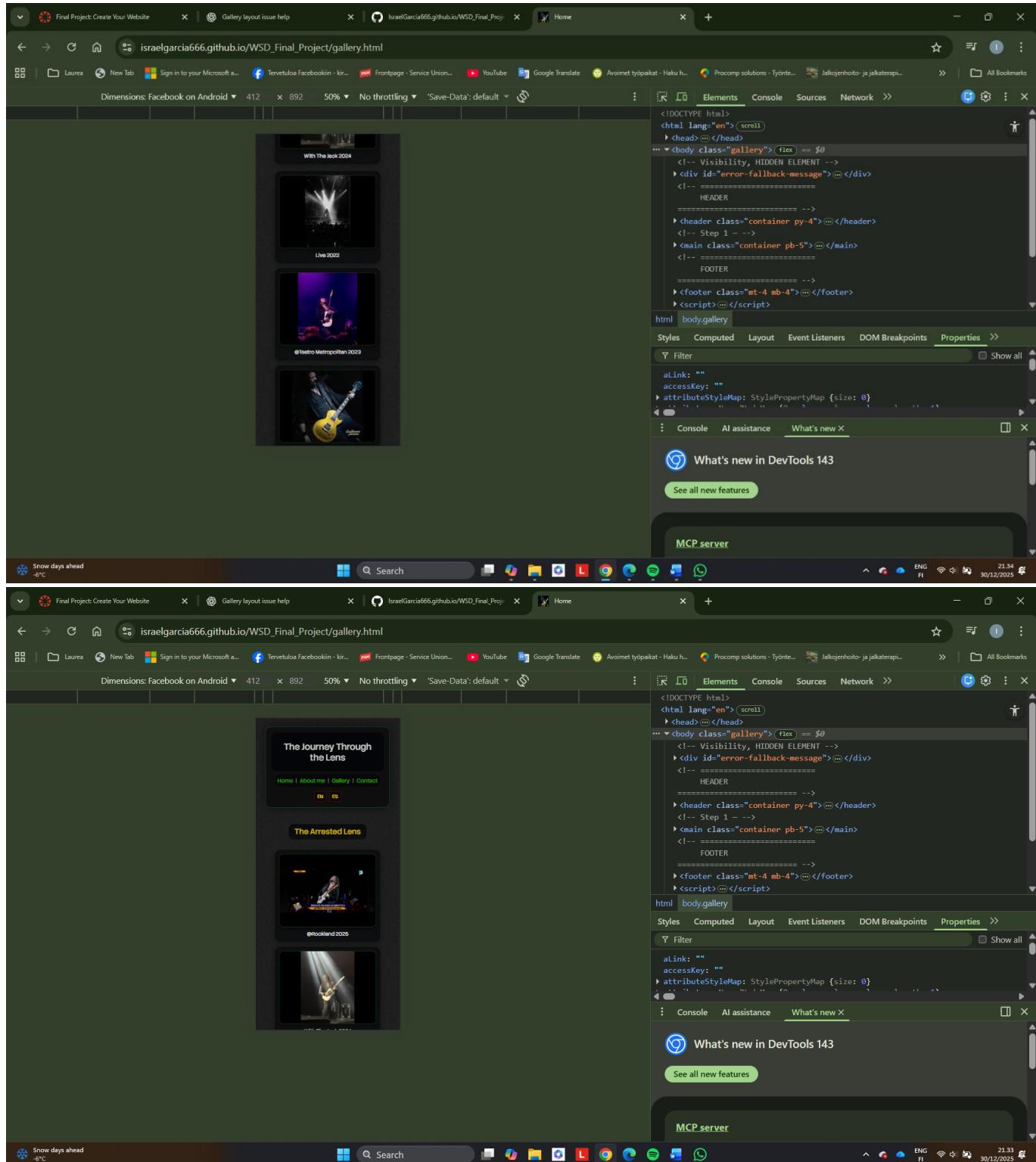


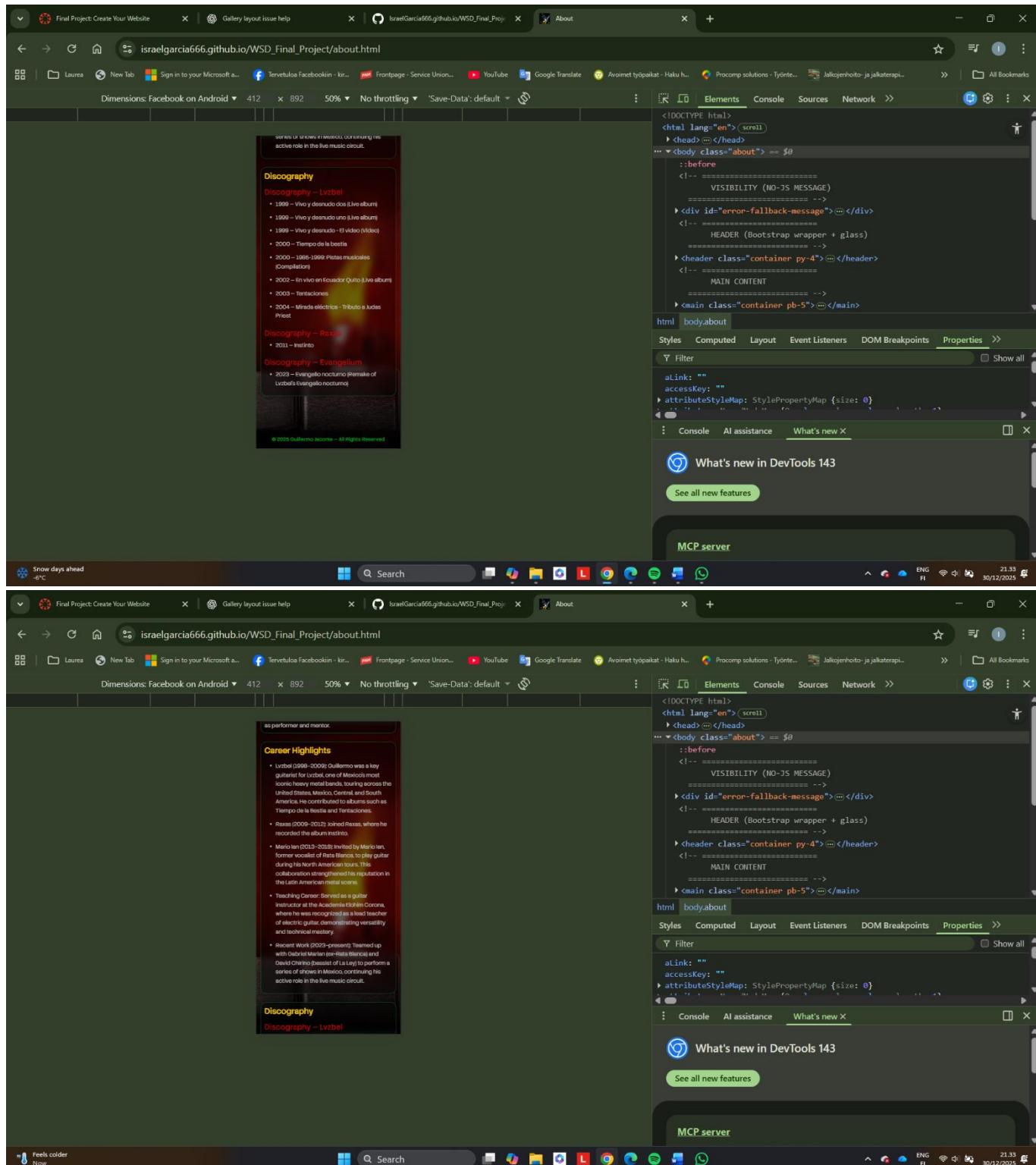
The screenshot shows a browser window displaying a contact form from a website. The website has a dark theme with a band photo at the top. The contact form includes fields for Name, Email, Subject, and Message, along with a 'Send message' button. The browser's developer tools are open, showing the HTML structure of the page. The 'Elements' tab is selected, and the 'Properties' tab is visible at the bottom. The developer tools also show a 'What's new in DevTools 143' section.

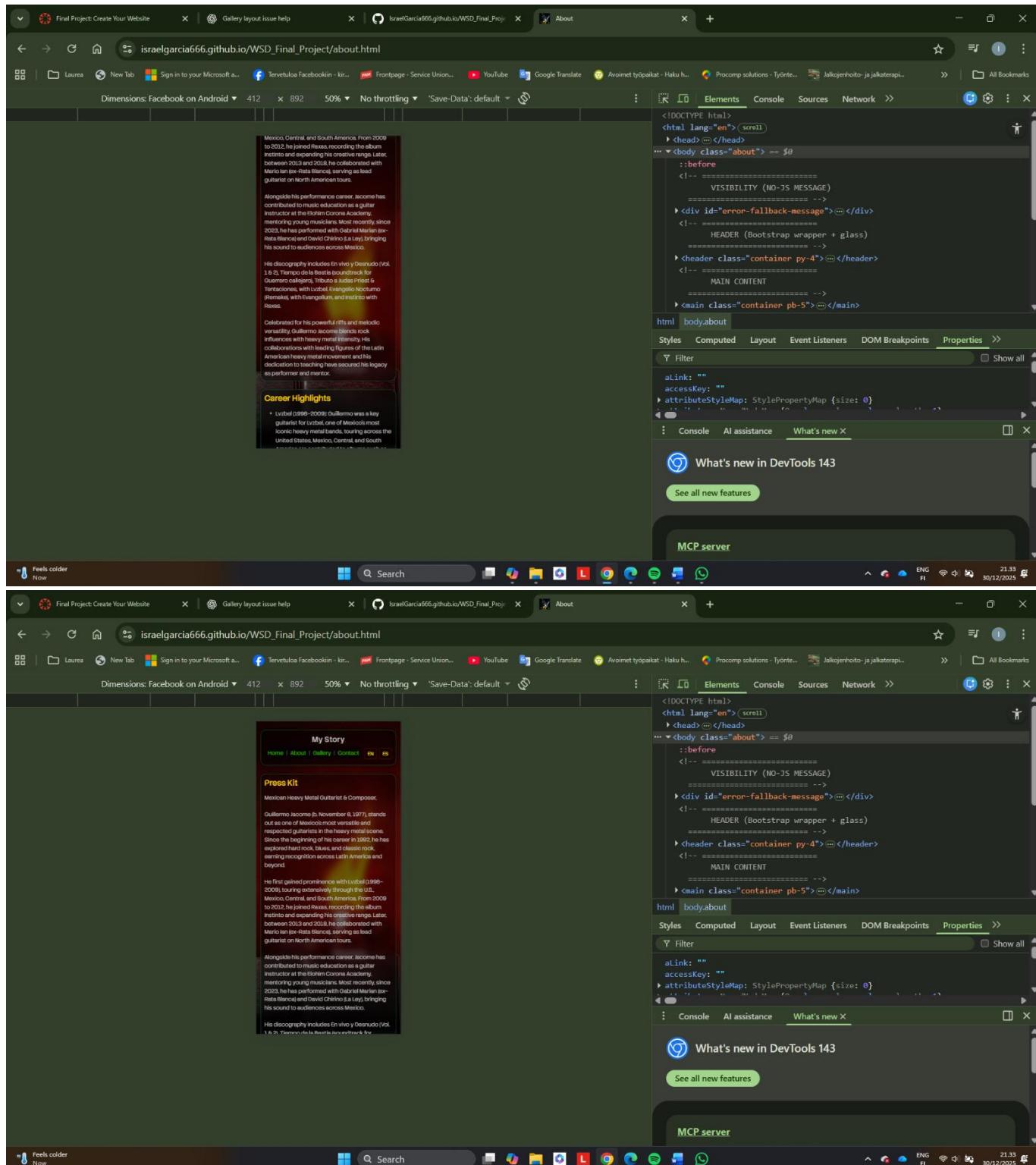








The screenshot shows a web browser window with the URL [israelgarcia666.github.io/WSD\\_Final\\_Project/about.html](https://israelgarcia666.github.io/WSD_Final_Project/about.html). The page content is displayed in a dark-themed layout. At the top, there is a navigation bar with links for 'Discography – Lyzbel', 'Discography – Raves', and 'Discography – Evangelium'. Below this, there is a section titled 'Career Highlights' containing a bulleted list of achievements. The developer tools are open, showing the DOM structure and styles for the 'about' page. The browser's status bar at the bottom shows various system icons and the date/time.



The screenshot shows two nearly identical web pages side-by-side, both titled "About". The left page has a dark header with "My Story" and a dark footer with "Press Kit". The right page has a light header with "About" and a light footer with "Press Kit". Both pages contain the same text content: a bio, career highlights, and a press kit. The browser's developer tools are open on both pages, specifically the Elements tab, which displays the HTML structure of the "about" section. The browser's toolbar at the top includes icons for back, forward, search, and refresh. The taskbar at the bottom shows various application icons.

# **Report: My Final Project Website**

## Web Site Development/ Outi Grottenfelt, Arvind Sharma

Laurea University of Applied Sciences

30<sup>th</sup> of December 2025

