

# Lesson 05: Using AI to Create New Page

Start

It's time to go into full production mode and create brand new pages for our website portfolio with AI's help.



## Learning Objectives



**Create new HTML pages for your portfolio website**



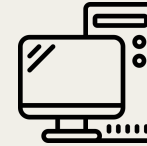
**Use AI to generate structured page layouts**




**Design and refine visual and interactive components with AI**



**Identify and fix issues in AI-generated code through iteration**



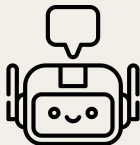
**Test and publish new pages safely using a local workflow**

 These objectives describe real-world skills used in modern AI-assisted development.

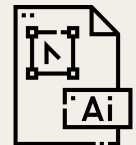
## Deliverables



✓ **At least one new HTML page added to your website**



✓ **A page structure generated and refined with AI**




✓ **At least one interactive or visual component created with AI**



✓ **Working navigation links between pages**



✓ **A successfully published update on GitHub Pages**

 If your new page works, is linked correctly, and you understand how you built it, you have succeeded.



## AI Learning Support for This Lesson

In this lesson, the AI tutor acts as a development partner.

A guided prompt is available to help you design, generate, and refine new pages. You can use it to help you:

- Create new page structures step by step
- Generate complex components (charts, carousels, timelines)
- Improve results through iteration and follow-up prompts
- Identify and fix issues in AI-generated code
- Decide what to keep, modify, or remove from AI output

💡 Use the AI iteratively — you stay in control of the final result.

**Lesson Prompt.**



## Lesson Overview

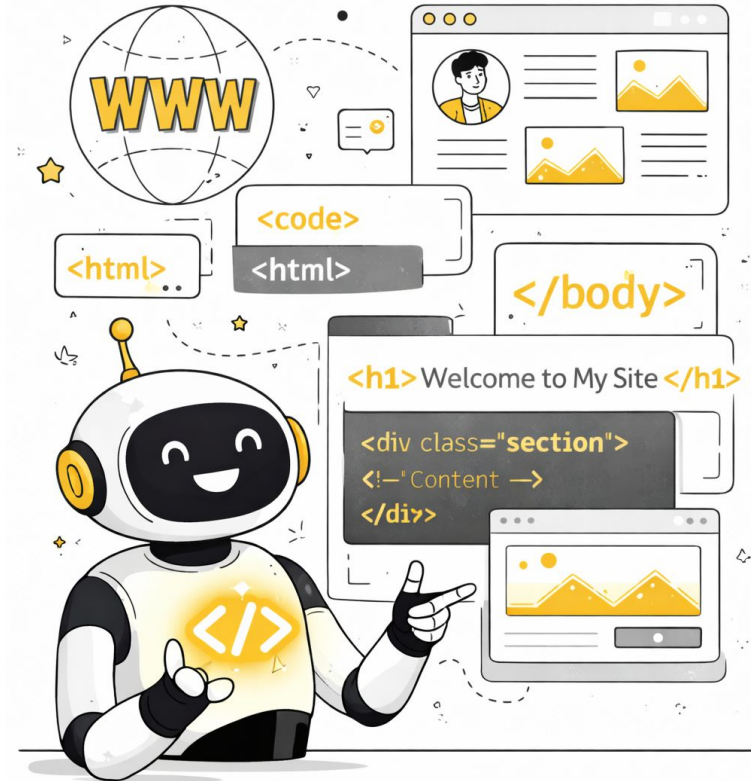
We will create **two new pages**, create your own based on your experience:

1. mobile.html → Mobile development experience
2. ai.html → Artificial intelligence experience

Each page:


- Has its own structure
- Uses AI-generated layouts
- Is connected to the main page

Next



# Page (Mobile.html)

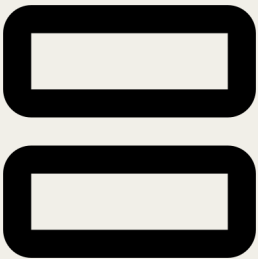
Creating a new page

 A new page is just a new HTML file.



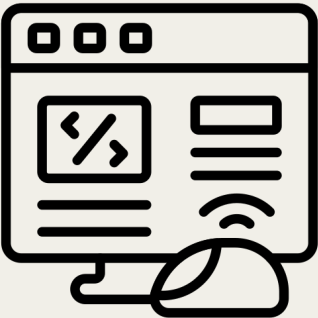
Creating a Pie Chart.

Create the prompt:



Creating a Gantt-style time graphic...

.. to display the development process:



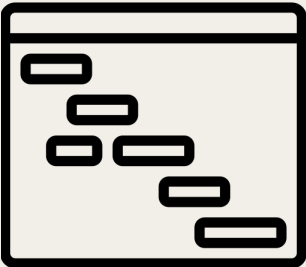
Filling mobile.html with Copilot

Create the prompt:



Creating mobile project sections

Create the prompt:





Steps:

- Open VS Code
- Create a new file: mobile.html
- Start from an empty file or basic HTML template



### Next prompt:

*“Create a Gantt-style timeline describing my development process: Pre-production, Design, Development, Testing, Release.”*


This introduces:

- Time-based visualization
- Sequential layouts
- Process thinking

### AI results may need adjustment.

Example prompts:

- *“Please, consider placing each phase of the development in a different row.”*
- *“Can you apply a shift to the phases so the graphic starts when the previous phase ended?”*

 Iteration is part of real development.

**Next prompt:**

*“Now I would like to create 3 sections where I can show the different developments that I’ve done for that 3 programming languages. All that sections share the same structure and embedded video aligned to the left and a text description aligned to the right.”*

**Concepts:**

- Reusable structures
- Consistent layout
- Media + text pairing



**First prompt example:**

*"I would like to fill the "mobile.html" page with information about my mobile experience and skills.*

*I would like to start the page with a banner space that I can later replace with an image with the text "Mobile Experience" and the subtitle "Creating scalable projects for a wide range of devices."*

**Copilot will:**

- Create a base structure
- Add sections
- Prepare placeholders
- Page headers
- Hero / banner sections
- Text hierarchy



**Next prompt:**

*“Next I would like to create a pie chart with my experience in the different technologies to develop for mobile devices. (Java 30%, Flash 10%, Unity 60%).”*

**Copilot may generate:**

- HTML elements
- CSS styling
- JavaScript logic



This introduces data visualization concepts.

## Page (ai.html) (Part 1/2)



**Now repeat the process for AI experience.**

Steps:

1. Create ai.html
2. Open it in VS Code
3. Start with a descriptive prompt

**We are going to ask Copilot to create a Carousel**

Create the prompt:



**Improve the carousel by adding interaction.**

Create the prompt:



**Next prompt:**

*"I would like that each image of the carrousel can open a link to a page on mouse click."*

**Possible Problem discovered:**

- Same link always opens when clicking in any of the images

**Solution prompt:**

*"When clicking in the banner it's always returning the same opened link: "projects/incredible-tools.html". Is it possible to check which is the current slide in order to only consider the link of that slide?"*



**Debugging with AI is a skill.**



### **Prompt example:**

*“I would like to fill the “ai.html” page with information about my artificial intelligence development experience and skills.*

*I would like to start the page with a carousel that transition between 3 different images after 5 seconds each. The user can also force the transition by clicking. There is going to be 2 text sections that after each image transition will change to these values:*

- *AI as a companion: We are exploring how LLM can helps us in our journey.*
- *Programming AI: We will use Python in order to develop application with the AI.*
- *Incredible Tools: Some of the amazing tools I've developed.”*

### **After testing:**

- Set final images
- Adjust timing
- Fix transitions
- Improve text changes

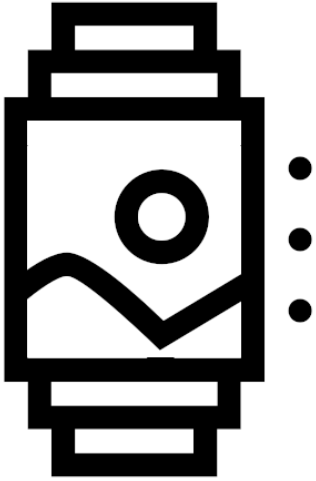


Interactive components often need refinement.

## Page (ai.html) (Part 2/2)



2R



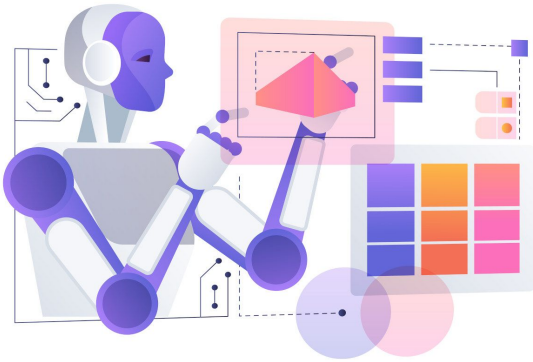
Now for the content of the page we are going to create 3 sections.

### Next prompt:

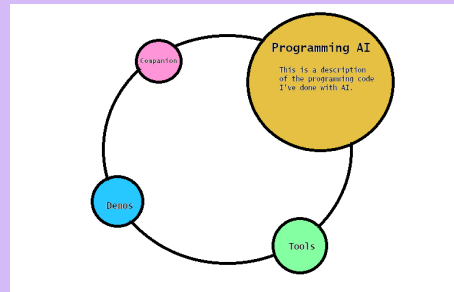
*“Next I would like to create 3 sections which share the same structure. The structure is of a vertical carousel with 3 pages. The content of each page is a text aligned to the left and an image aligned to the right.”*

This introduces:

- Component reuse
- Vertical navigation
- Advanced layout logic

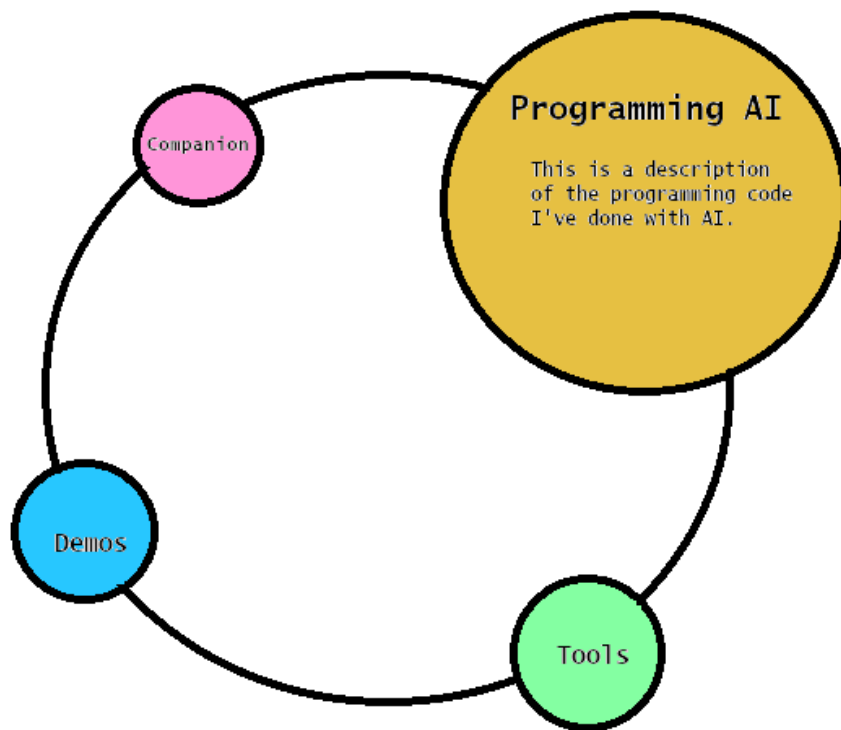


We are going to level up the challenge by using an image to ask the AI what we want.



Possible Problems





Create the image of the design (we are going to use this):

**We are going to use the prompt:**

*"I would like to create a web page (html, css, javascript) based on the design I'm sharing with you. The goal is that the user can select any of the nodes of the graphic and it will zoom in displaying additional information while the other nodes will zoom out because they are in the unselected state. Do you understand the design I'm looking for? "*



**Possible Problem discovered:**

- The location of the buttons is not in the place we expected.

**Example fix prompt:**

*“Center the buttons. Place ‘previous’ at the top and ‘next’ at the bottom.”*

 **You are shaping behavior, not just visuals.**





**Next prompt:**

*“Next I would like to create 3 sections which share the same structure. The structure is of a vertical carrousel with 3 pages. The content of each page is a text aligned to the left and an image aligned to the right.”*



**Possible Problem discovered:**

- The location of the texts where the nodes are unselected is wrong.

**Example fix prompt:**

*“In order to have freedom to place the text for the unselected nodes I would like that the text in the unselected node to be different so I can align it freely to the center of the node. When the user select the nodes this text disappears and the other appears. Can you help me to do that? “*

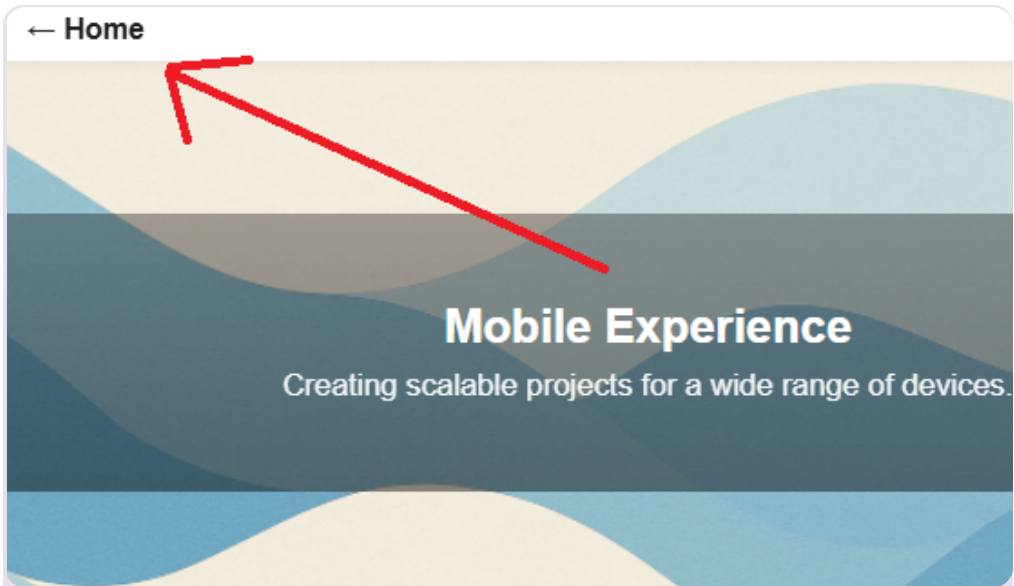
**Possible Problem discovered:**

- The graphic is not properly centered in the website page.

**Example fix prompt:**

*“I would like to place the ".container" centered in my website. What should I do?“*

# Linking the pages together



## Linking new pages back to index.html

We will start linking the previous 2 new pages created with the index.html

Prompt

### Mobile Experience



**Mobile Developer** — I design and build native and cross-platform mobile apps for Android and iOS. My experience includes working with Kotlin, Swift, Flutter, and React Native to deliver performant, accessible, and user-friendly applications.

[Explore Mobile Projects](#)

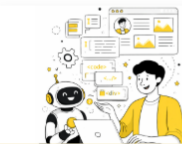
Highlights: offline-first architectures, REST and GraphQL integrations, CI/CD for app stores, performance profiling, and integrating device features like camera, sensors and push notifications.

### AI Experience

**AI & ML Engineer** — I build and deploy machine learning systems, from prototyping models to production inference. My work includes model training (PyTorch/TensorFlow), data pipelines, MLOps, and integrating ML into products for real-time and batch use cases.

[Explore AI Projects](#)

Highlights: model optimization, ONNX export, cloud deployment, data labeling workflows,



## Connect index.html with new pages

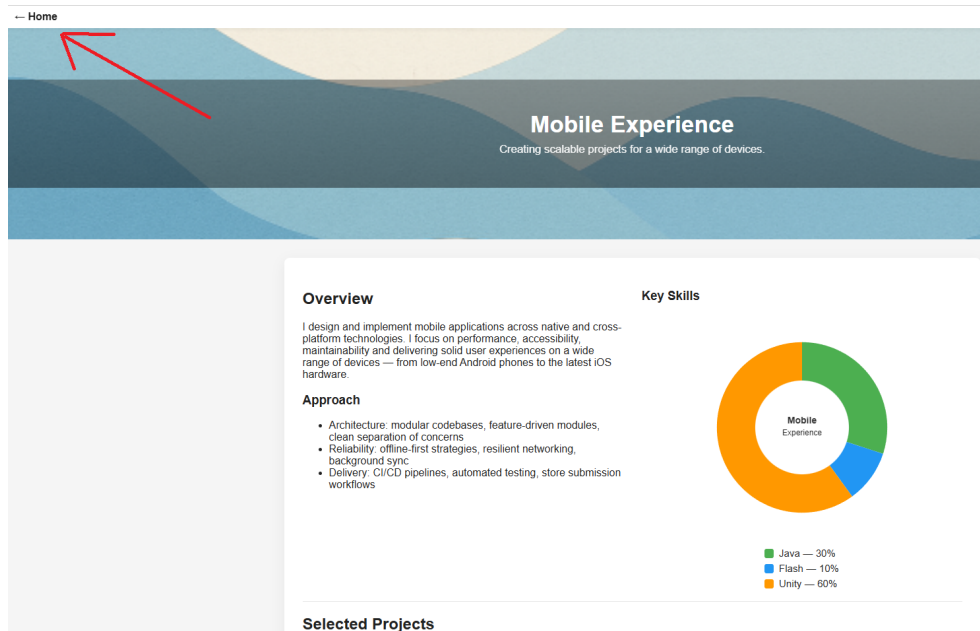
Now we will connect the index.html with the 2 pages.

Prompt



2C





## Prompt:

*“For all the pages, except index.html, I would like to have a menu at the top that allow me to navigate back to the front page (index.html)”*

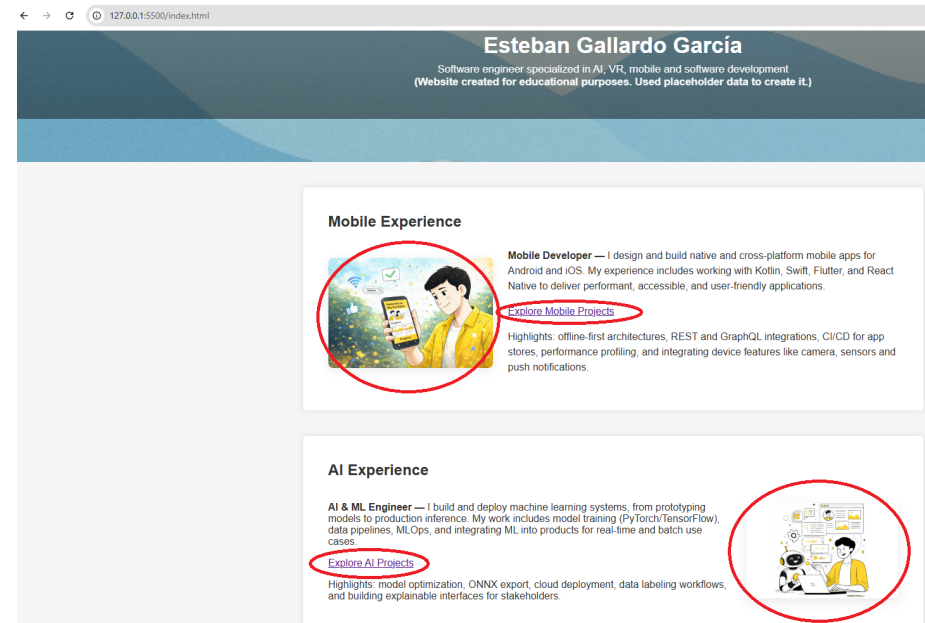
## This introduces:

- `<a>` links
- Navigation flow
- User journey



```
<!-- ===== MOBILE EXPERIENCE ===== -->
<section id="mobile">
  <h2>Mobile Experience</h2>
  <div class="mobile-experience">
    <a href="mobile.html"></a>
    <div class="content">
      <p><strong>Mobile Developer </strong> I design and build native and cross-plat
      <p><a href="mobile.html">Explore Mobile Projects</a></p>
      <p>Highlights: offline-first architectures, REST and GraphQL integrations, CI/CD
    </div>
  </div>
</section>

<!-- ===== AI EXPERIENCE ===== -->
<section id="ai">
  <h2>AI Experience</h2>
  <div class="ai-experience">
    <div class="text">
      <p><strong>AI & ML Engineer </strong> I build and deploy machine learning syste
      <p><a href="ai.html">Explore AI Projects</a></p>
      <p>Highlights: model optimization, ONNX export, cloud deployment, data labeling
    </div>
    <a href="ai.html"></a>
  </div>
</section>
```



- Use images for the links `<a href="..."><img ...></a>`
- Use text for the links `<a href="...">Text of the link</a>`





## Lesson 5 Takeaways

### You can now:

- Create new pages from scratch
- Use AI for advanced UI components
- Fix and refine AI-generated code
- Build real navigation structures
- Think like a web creator

🦅 You are no longer “learning tools” — you are designing digital experiences.

Next



# Knowledge Test Questions



Using AI to Create New Pages



**Purpose of Creating New Pages**

Question



**Effective Use of AI**

Question



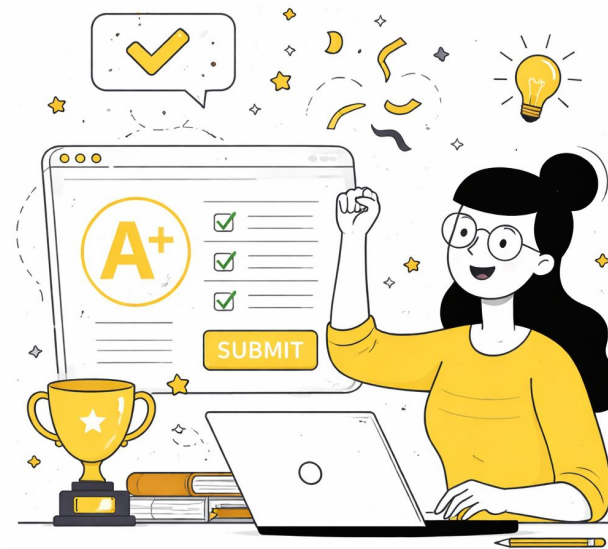
**Iteration and Debugging**

Question



**Linking Pages Together**

Question





## **Why do we create new HTML pages (e.g., mobile.html, ai.html) instead of putting everything in index.html?**

Because AI can only generate one page at a time

Because GitHub Pages does not allow large HTML files

To organize content clearly and build a scalable, multi-page website





## **Why is it important to add navigation links between index.html and the new pages you create?**

To allow users to navigate the website and understand its structure

Because AI-generated pages cannot work without links

Because GitHub Pages requires links to validate the site



## **What is the recommended approach when asking AI to generate code for a new page or component?**

Ask for the entire final page design in one prompt

Use clear, focused prompts and iterate step by step

Let AI decide the structure and logic completely



**If an AI-generated component does not behave as expected, what should you do first?**

Test locally, identify the issue, and ask AI a follow-up question to refine the code

Publish the page to see if it works online

Delete all the code and start again manually

# Help us to improve

With your feedback we will keep improving for you to get the best results



Which part of using AI to create new pages or components was the most challenging for you, and why?

Write your answer here.

Send

How confident did you feel iterating on and fixing AI-generated code during this lesson?

Write your answer here.

Send

What change would most improve this lesson for future students?

Write your answer here.

Send

