Web Development The big picture

































































































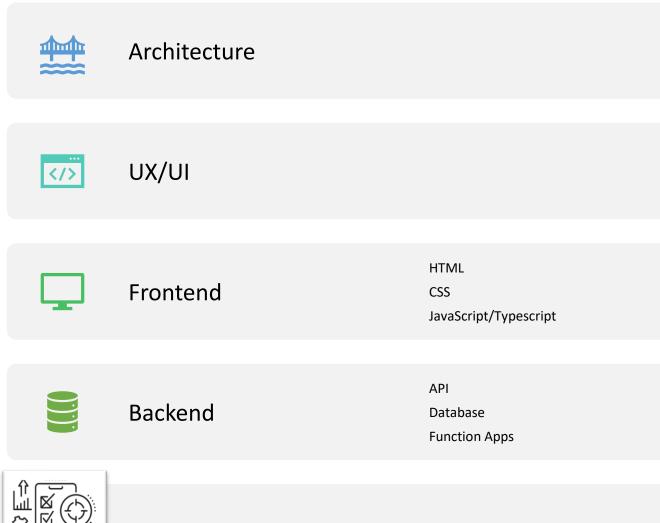








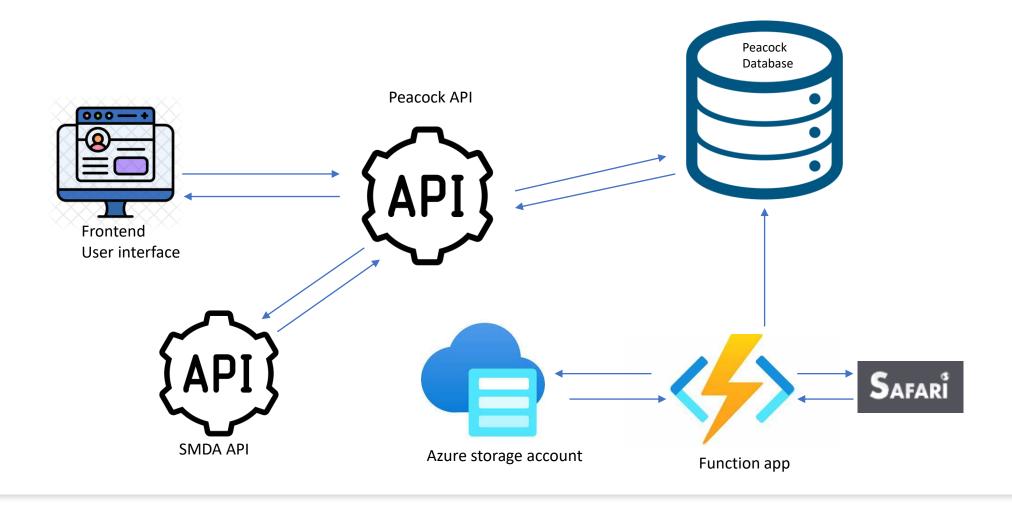
Summary

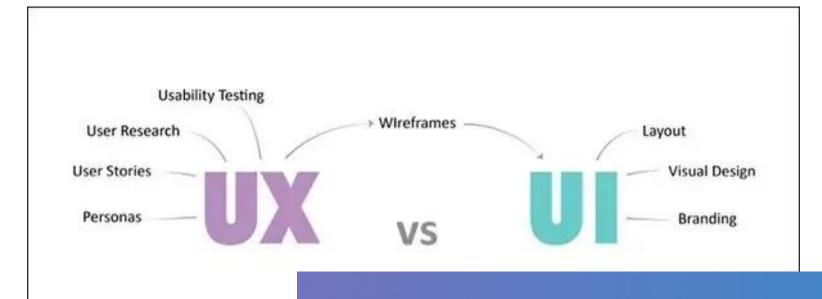




Testing

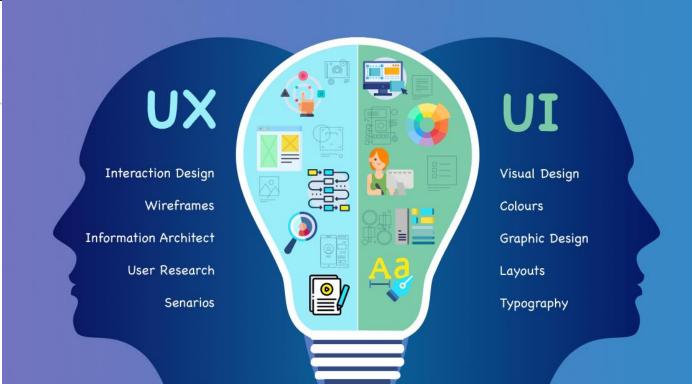
Web App Architecture





UX/UI

The Difference between



THE "HOUSE" ANALOGY:

-RITCH MACEFIELD

INFORMATION ARCHITECT:

Ensures that the master bedroom accommodates a double bed and 2 tables and that the only bathroom is not in the garage.

INTERACTION DESIGNER:

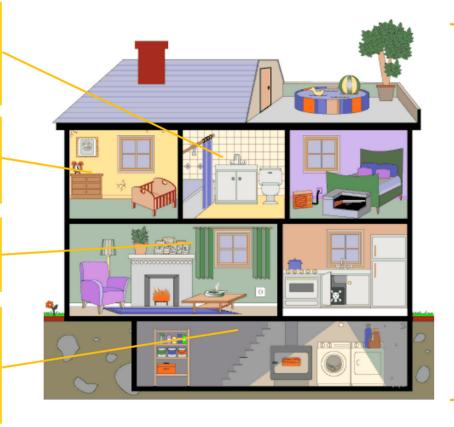
Ensures that the cold water tap is on the right and that all the stairs have banisters.

VISUAL DESIGNER:

Chooses the carpets, curtains and furniture.

USABILITY ANALYST:

Inspects the house after each key stage in the building process (conceptual design stage, planning stage, and once the building is completed).



UX ARCHITECT:

Conceives the whole experience of the home owner. Has overall responsibility for the design, leading and briefing all of the people in specialist roles, and represents the home owner (not the builders) throughout the design process.

Frontend

What's the Difference?



Create the structure

- · Controls the layout of the content
- · Provides structure for the web page design
- The fundamental building block of any web page



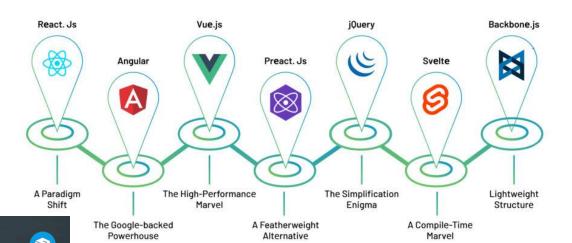
Stylize the website

- · Applies style to the web page elements
- Targets various screen sizes to make web pages responsive
- Primarily handles the "look and feel" of a web page

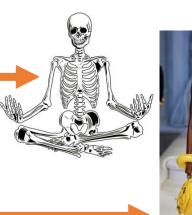


Increase interactivity

- · Adds interactivity to a web page
- · Handles complex functions and features
- · Programmatic code which enhances functionality



Exploring the Top Frontend Frameworks

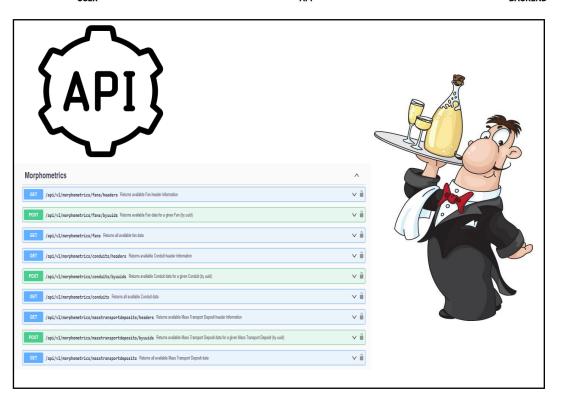


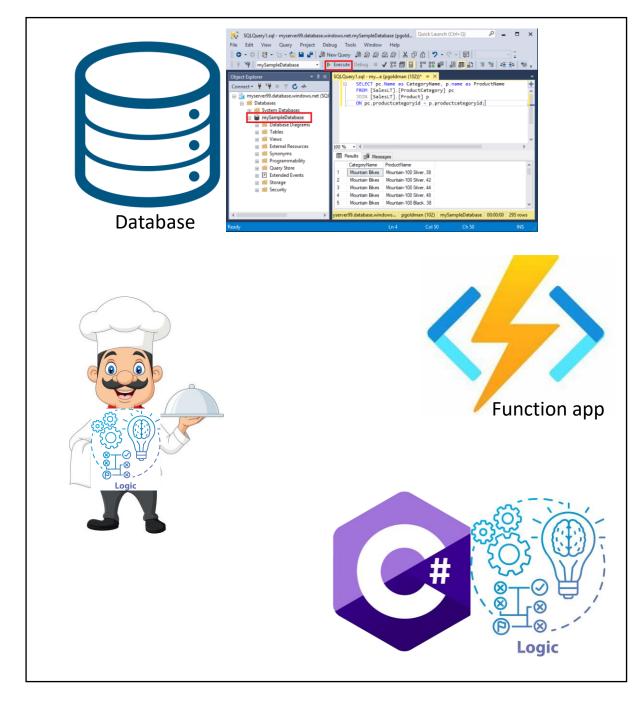




Backend







End User with Browser









Server Back-end System







Make the Order

Delivery of order



Waiter

Take the Order

Bringing from Kitchen



Chef

Testing



Why is testing important? Explained using a cake baking metaphor, curtesy of chatgpt



Planning the Ingredients (Unit Testing)



Mixing the Batter (Integration Testing)



Baking the Cake (System Testing)



The Final Decoration (Acceptance Testing)



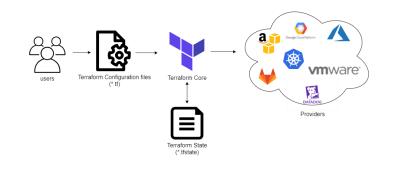
The Taste Test (User Testing)



Testing is important because, just like with baking a cake, you want to catch any issues early, ensure all the parts come together nicely, and ultimately, provide a delightful experience to the end-users. Without testing, you could end up with a cake that looks good on the outside but is inedible—similar to software full of bugs and issues that frustrate users and don't meet their needs.

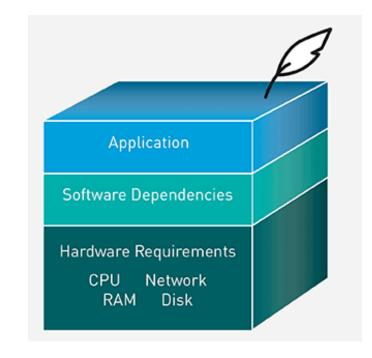












For another time...