**8 Steps to Make a basic Web 3.0 App**

1. add **visual design** by designing web page using visual design software (no code): Figma app (WEB DESIGN)
2. add a **blank** **page** by creating a blankweb page: HTML file (WEB DEV FRONTEND)
3. add **content and structure** by inserting ordered text and images onto page: HTML file (WEB DEV FRONTEND)
4. add **style and personality** by giving aesthetics to the page which already has content: CSS file (WEB DEV FRONTEND)
5. add **play and interactivity** by changing content and style (without long term data storage) coz before page acts like an image or static and not frontend dynamic (I can only click on buttons or hyperlinks that takes me to other static pages or further down same static page): JS + HTML + CSS file (WEB DEV FRONTEND)
6. Add **identity with data** by modifying content depending on what comes from database subset (backend dynamic): PHP within HTML file (WEB DEV BACKEND)
7. Add **data modification** byretrieving (actually CRUD) all user data subset by queries: SQL within PHP file (WEB DEV BACKEND)
8. Add **data storage** by storing all user data in database: MySQL database/folder (WEB DEV BACKEND)

**(1) Design Page ->**

**(2) Add Page -> (3) Add Content -> (4) Add Style -> (5) Add Play ->**

**(8) Change Content with Some Data <- (7) Get Some Data <- (6) Store All Data**

**(0) How to Create Web App? (What Tools/Resources?)**

**(1) Design Page (no code, Figma & Wordpress & Webflow & Wix & Adobe Creative Cloud).**

**(2) Add Page (HTML).**

**(3) Add Content to page (HTML).**

**(4) Add Style to page (CSS & CSS Library:** **Bootstrap).**

**(5) Add Play to page (JS & HTML & CSS & JS Library: jQuery & JS Framework: React).**

**(6) Add Storage for All Data via database (MySQL & SQL).**

**(7) Add CRUD for Some Data via server (PHP & SQL & PHP Framework: Laravel & HTTP Protocols & REST API) (Instead of PHP, can use Java/Spring, C#, Node.js).**

**(8) Update Content on page, with CRUD (PHP inside HTML text element).**

**(9) Save Changes + Store App (Git & GitHub).**

**(10) Deploy App from Local to Online (backend would change, AWS, Hiroku, Netlify)**

**Note:**

**User can see only (2) to (5) / Frontend**

**CreateRetrieveUpdateDelete**

**Content: text,images,video,media,forms(user input), maps**

**Examples for Patterns:**

**Visualise/Draw:**

**1. Blank Page**

**2. Text boxes on page**

**3. Background colour of page red (text box still white)**

**4. Add a button that turns background colour from red to blue.**

**5. Create a database and store all usernames and firstnames.**

**6. When user logs in match username to first name, retrieve first name. Save it as a string variable.**

**7. Update text box on the page to the retrieved first name.**