



Ultimate Web Development Revision Guide

Topic: HTML, CSS, PHP, and MySQL Integration

Goal: Physically type out and practice every single syllabus point in one project.



Prerequisites

Before starting, ensure your environment is set up:

- **Server:** Install **XAMPP** or **WAMP**.
- **Folder:** Create a folder named **RetroProject** inside your **htdocs** (XAMPP) or **www** (WAMP) directory.
- **Assets:** Place 4 files in that folder:
 - **bg.jpg** (Background image)
 - **comp.jpg** (Computer photo)
 - **music.mp3** (Audio file)
 - **vid.mp4** (Video file)



Phase 1: The Database (PHP Syllabus)

1. Open your browser and go to **localhost/phpmyadmin**.
2. Click **New** and create a database named: **retro_club**.
3. Click on **retro_club** and create a table named: **members**.
4. Add **4 Columns**:
 - **id**: Type: **INT**, Index: **PRIMARY**, Check **A_I** (Auto Increment).
 - **username**: Type: **VARCHAR**, Length: **50**.
 - **fav_device**: Type: **VARCHAR**, Length: **50**.
 - **joined_at**: Type: **DATE**.
5. Click **Save**.



Phase 2: The Styling (CSS Syllabus)

Create a file named `style.css` and add the following selectors:

- **Universal Selector:** Select `*` and set `box-sizing: border-box`.
 - **Element Selector (Body):** Select `body`. Set `background-image` to `url('bg.jpg')`, `background-color` to `#cccccc`, and `font-family` to `Arial, sans-serif`.
 - **Group Selector (`.container`):** Select `h1, h2`. Set `text-align: center`, `color: darkblue`, `text-transform: uppercase`, and `letter-spacing: 2px`.
 - **Class Selector (`.container`):** Give it `width: 80%`, `margin: auto`, `background-color: white`, `padding: 20px`, and `border: 5px solid black`.
 - **ID Selector (`#navbar`):** Set `text-align: center`, `padding: 10px`, and `border-bottom: 2px dashed gray`.
 - **Hyperlink States:**
 - `a:link` → `color: blue; text-decoration: none;`
 - `a:visited` → `color: purple;`
 - `a:hover` → `color: red; background-color: yellow; text-decoration: underline;`
 - `a:active` → `color: green;`
 - **Paragraph Class (`.justified-text`):** Set `text-align: justify`, `text-indent: 50px`, `line-height: 1.5`, and `word-spacing: 5px`.
 - **List Styling:** Select `ul` and set `list-style-type: square`.
 - **Footer Class:** Set `margin-top: 20px` and `font-size: 10px`.
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Phase 3: The Homepage (HTML Structure)

Create a file named `index.html`.

1. Head Section

- **Meta Tags:** Add keywords ("ICT, Revision"), description ("My Project"), author ("Your Name"), and a refresh tag set to `60` seconds.
- **Links:** Link `style.css`.
- **Internal CSS:** Add a `<style>` tag to make `p` tags `color: gray`.

2. Body Section

- **Attributes:** Use `bgcolor="white"` and `text="black"` in the `<body>` tag.
 - **Marquee:** Create a scrolling "Welcome to the site" message.
 - **Navigation:** Inside a `<div id="navbar">`, create local links to `index.html`, `specs.html`, `gallery.html`, `frames.html`, and `join.php`.
 - **Content:**
 - Use `<h1>` for the title "History of Tech".
 - Use `<hr>` with `width="50%"` and `color="red"`.
 - **Formatting Task:** Create a paragraph using ``, `<i>`, `<u>`, `<strike>`, `<sup>`, `<sub>`, `<small>`, `<mark>`, and the `` tag.
 - **Preformatted:** Use `<pre>` for a poem or spaced text.
 - **Inline CSS:** Create an `<h3>` with a pink background style.
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Phase 4: Specifications (Lists & Tables)

Create `specs.html`.

- **Nested Lists:** Create an Ordered List (`<ol type="I">`). Inside "Hardware", nest an Unordered List (``) with "Mouse" and "Keyboard".
 - **Definition List:** Use `<dl>`, `<dt>` (CPU), and `<dd>` (Central Processing Unit).
 - **Complex Table:** Create a table with `border="1"`.
 - Use `<th>` for headers.
 - Practice **Colspan:** One cell stretching across 3 columns.
 - Practice **Rowspan:** One cell stretching down 2 rows.
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Phase 5: Gallery (Multimedia)

Create `gallery.html`.

- **Images:** Insert `comp.jpg` with `alt`, `width`, and `title` attributes.
- **Image Map:** Create a clickable map with a rectangle area leading to Home and a circle area leading to Specs.
- **Audio/Video:** * Use `<audio>` and `<video>` tags with controls.
 - Add a `mailto:` link for feedback.



Phase 6: Frameset (Layouts)

Create `frames.html`. **Note:** Do not use a `<body>` tag here.

- Use `<frameset rows="20%, 80%">`.
 - Top frame displays `index.html`.
 - Bottom section uses a nested `<frameset cols="50%, 50%">` to show `specs.html` and `gallery.html` side-by-side.
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Phase 7: Join Club (Forms & PHP)

Create `join.php`.

1. PHP Logic (Top of file)

PHP

```
<?php
$conn = mysqli_connect("localhost", "root", "", "retro_club");
if(isset($_POST['submit_btn'])) {
    $u = $_POST['user'];
    $f = $_POST['fav'];
    $d = $_POST['dob'];
    $sql = "INSERT INTO members (username, fav_device, joined_at) VALUES ('$u', '$f',
'$d')";
    mysqli_query($conn, $sql);
    echo "Member Added!";
}
?>
```

2. Form Controls

Create a `<form>` containing:

- **Fieldset & Legend:** To group "User Details".
- **Inputs:** Text, Password, Date, Number (min 18, max 99), and File upload.
- **Selection:** Radio buttons (Mac vs PC), Checkbox (Agreement), and a Dropdown menu (Select Country).
- **Textarea:** For a custom message.
- **Buttons:** Submit, Reset, and a standard Button.



How to Run

1. Start **Apache** and **MySQL** in XAMPP.
2. Open your browser to localhost/RetroProject/index.html.
3. Test all links and fill out the form in [join.php](http://localhost/RetroProject/join.php).
4. Check **phpMyAdmin** to see your data saved!

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