Andrew Plum

9/6/2023

Setup (Notes Below)

1. Download XAMPP
   1. [Download XAMPP (apachefriends.org)](https://www.apachefriends.org/download.html)

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| [Download XAMPP](https://www.apachefriends.org/download.html)  Download XAMPP for Windows, Linux, and OS X. Older versions of Solaris are also available.  www.apachefriends.org |

* 1. 
  2. 
  3. Choose bottom window option
  4. Type XAMPP control panel

1. Download Net beans IDE
   1. [Apache NetBeans Releases](https://netbeans.apache.org/download/index.html)

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| --- |
| [Apache NetBeans Releases](https://netbeans.apache.org/download/index.html)  Apache NetBeans Releases Page  netbeans.apache.org |

* 1. 
  2. 
  3. Click on top download
  4. Top link of the second heading called installers and Packages:
     1. [Apache-NetBeans-19-bin-windows-x64.exe](https://www.apache.org/dyn/closer.cgi/netbeans/netbeans-installers/19/Apache-NetBeans-19-bin-windows-x64.exe) ([SHA-512](https://downloads.apache.org/netbeans/netbeans-installers/19/Apache-NetBeans-19-bin-windows-x64.exe.sha512), [PGP ASC](https://downloads.apache.org/netbeans/netbeans-installers/19/Apache-NetBeans-19-bin-windows-x64.exe.asc))
  5. You might have to install java jdk
     1. Download the one that says installer
  6. This is for html programming

1. You need need to search [http://localhost](http://localhost/)
   1. To do so you need to start Apache and MySql which can be done in XAMPP Control Panel – windows search bar for it
   2. Navigate to php info and make sure it is version 8.1.6
      1. I checked and it is not. It is version 8.2.4 installed on my local computer.
   3. Click on phpAdmin
      1. This is how you create the database
         1. When you create a database create one using utf8\_general\_ci

Notes:

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* Full stack development
  + For web development
    - Entails front end, back end, and database
* Full stack web development tools
  + Netbeans IDE
    - HTML
  + phpMyAdmin
* HTML
  + You don’t really need to remember the html tags
    - Search html tags and ^F to find the tag you need
  + Tags
    - Tags have “/” at the second tag to show the end
    - <head>
      * Is the name of the tab when you hover over it in the browser
    - <body>
      * Is the stuff actually in the web page
    - <div>
      * Defines a section
    - <h1>
      * Defines a header
      * 1-6 of different sizes
    - There are also paragraphs, images, and links
    - Email tags and link tags
    - Tables
    - Forms
      * Interactive sign up boxes
  + Structure
    - Can select code and right click format

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* CSS
  + Three types
    - Internal
      * In html page
    - Inline
      * In html page
      * In the actual tags
    - Exernal
      * Different css page
  + Change font
    - Color

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* CSS
  + Style=”col-md-12”
    - Creates 12 columns across the webpage

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* PHP
  + Variable declaration
    - $a = 4;
      * Declare varible = 4
    - Always need $ before variables
  + Variable operations
    - +
      * Add
    - .
      * Concat strings
  + Break line
    - echo "<br>";
  + Loops
    - Do while and foreach
    - While loop
      * $k = 0;
      * while($k < 5){
      * echo $k;
      * echo "<br>";
      * $k = $k + 1;
      * }
      * echo "<br>";
    - For loops
      * for($i = 1; $i < 4; $i++){

for($j = 1; $j < 4; $j++){

echo $i;

}

* + Arrays

echo "<br>";

}

* + - * for($i = 0; $i < 5; $i++){

echo $i;

echo "<br>";

}

* + Function
  + Form handling
    - Gets data from a form
    - Look at slides

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* Laravel
  + Install
    - Navigate to local htdocs folder
    - Copy path
    - Paste path in cmd
    - Install composer version 2.5.8 or latest if not installed already
      * [Composer (getcomposer.org)](https://getcomposer.org/download/)
    - Navigate to Laravel install page
      * [Installation - Laravel 10.x - The PHP Framework For Web Artisans](https://laravel.com/docs/10.x)
      * Paste command in cmd while in htdocs folder
      * composer create-project laravel/laravel first\_laravel\_app
    - HTML template: NiceAdmin download
      * [Nice Admin - Free bootstrap admin HTML template | BootstrapMade](https://bootstrapmade.com/nice-admin-bootstrap-admin-html-template/download/)
      * Download the NiceAdmin free download
  + .blade.php
    - * Extensions
      * .blade is an uploading system
        + Its an engine
  + To run Laravel framework
    - Need
      * <link href="<?php echo asset('');?path/../path\_end>
      * Example
        + <link href="<?php echo asset('');?>themes/NiceAdmin/assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  + <?php
  + $a = 10;
  + print($a);
  + ?>
  + (( $a ))
  + @for ($i = 0; $i < 10; $i++)
  + The current value is {{ $i }}
  + @endfor
  + <?php
  + echo "\n";
  + for ($i = 0; $i < 10; $i++){
  + echo "The current value is $i";
  + }
  + ?>
* Laravel lab link example: contact\_us
  + <a class="nav-link collapsed" href="<?php echo URL::to('contact\_us');?>">
* IMPORTANT
  + When you submit exclude: the vendor folder

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* Laravel
  + MVC Model
    - 1) M (Model) - Database
    - 2) V (View) - HTML (BLADE)
    - 3) C (Controller) - Logic development
  + Controllers
    - “Controller.php” is the default controller that we’re extending
      * Never delete it
    - Create “FlightController.php” in “Controllers” folder
    - Create “Flight” folder under “views” folder
    - Names of the controller must be the same across the board
  + Folder
    - Views folder
      * C:\Users\plum0598\OneDrive - University of Idaho\XAMPP\htdocs\Lab\_6\resources\views
    - Controllers
      * C:\Users\plum0598\OneDrive - University of Idaho\XAMPP\htdocs\Lab\_6\app\Http\Controllers
    - Routes
      * C:\Users\plum0598\OneDrive - University of Idaho\XAMPP\htdocs\Lab\_6\routes
  + Model – Database Flight

A screenshot of a computer

Description automatically generated

* + [Eloquent: Getting Started - Laravel 10.x - The PHP Framework For Web Artisans](https://laravel.com/docs/10.x/eloquent#generating-model-classes)
    - php artisan make:model Flight

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* Client and server side validation
  + [Validation - Laravel 10.x - The PHP Framework For Web Artisans](https://laravel.com/docs/10.x/validation)
* Cross-site request forgeries (CSRF Protection)
  + We do not want 3rd party users to visit my web page and this is used to prevent that
  + To use
    - @csrf
* Blade templating
* URL
  + echo url()->full();
  + echo url()->previous();
    - URL that from previous page before current page
  + echo url()->current();

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* Javascript
  + Used when any server side language should be used
    - I don’t know if this is correct nut this is what I think Kalol said
  + Need both client and server side validation
  + Writing text
    - document.getElementByID("sys").innerHTML = "Hello World";
      * Prints “Hello World” in div tag with id “sys”
  + Variable
    - Declaration
      * username = 'This is a javascript variable';
      * var username = '';
      * let username = '';
      * const username = '';
        + local variable
    - Print
      * document.write("Hello World" + username);
  + Laravel load data
    - Load more data in Laravel using Ajax
      * [Load More Data in Laravel using Ajax - YouTube](https://www.youtube.com/watch?v=un24PeEADNI)

11/29/2023

* Free domain hosting
  + [Free Web Hosting with PHP and MySQL - InfinityFree](https://www.infinityfree.com/)
    - Created account with [plum0598@vandals.uidaho.edu](mailto:plum0598@vandals.uidaho.edu)
      * Same as regular password
    - Created domain
      * Name:
        + MyFirstDomain.infinityfreeapp.com
      * Password:
        + 987654321
    - I think you can ignore index2.html file
  + Launch an Amazon EC2
    - Can deploy a python based webpage