AutoTrack Annotated Bibliography

Lauren Malone

MSSE 696 Regis University

AutoTrack Annotated Bibliography

Amazon Web Services. (2019). AWS: launch an application. Retrieved from

https://aws.amazon.com/getting-started/tutorials/launch-an-app

This step-by-step guide will help you get a sample PHP application up and running with

AWS Elastic Beanstalk (EB). EB supports other languages besides PHP, such as Java, .NET,

Node.JS, Python, Ruby, Docker, and Go, but the focus of this tutorial will be on PHP (other

languages will follow the same process). You will first configure your EB application, and then

setup your EB environment where your application will be launched into.

Though I've yet to select a specific platform for deploying my final application, this article

provides a good starting point for researching the options.

Angular JS. (2018). AngularJS: developer guide. Retrieved from https://docs.angularjs.org/guide

This site provides reference material for various topics in AngularJS, such as templates,

application structure, and testing.

This will be a go-to reference since I have no prior experience using this framework.

Dalisay, M. How to create a simple REST API in PHP [Blog post]. Retrieved from

https://www.codeofaninja.com/2017/02/create-simple-rest-api-in-php.html

In this tutorial we will see the integration of AngularJS with PHP REST. We are going to

create CRUD application using PHP REST API on server side and AngularJS is encapsulated

within html file on client side. Thus the client will communicate with server asynchronously

using AngularJS $http service.

This blog post gives a simple example of creating RESTful web services in PHP. It provides

an ideal starting point as I plan to implement my application using REST.

Diego. (2018). Network of VirtualBox instances with static IP addresses and Internet access

      [Blog post]. Retrieved from https://www.codesandnotes.be/2018/10/16/network-of-

      virtualbox-instances-with-static-ip-addresses-and-internet-access

This article reviews how to configure a VirtualBox environment in order to test an

application in a controlled environment. It includes assigning a static IP to the virtual machine,

accessing it from the host, all while maintaining Internet access.

Though it's been suggested that we start out developing locally, my goal will be to develop

remotely in a controlled environment. This is mainly driven by my desire to become more

comfortable with the Linux operating system. This source helped me to configure my virtual

machine for remote development.

Doctrine Project. Doctrine 2 ORM: Documentation. Retrieved from https://www.doctrine-

      project.org/projects/doctrine-orm/en/2.6/

This site includes reference material for utilizing Doctrine ORM. It includes core concepts

pertaining to object relational mappers, commonly used patterns, and tutorials. This will be a key

reference as I integrate AutoTrack's business logic and data store.

Drake, M. (2018). How to install Linux, Apache, MySQL, PHP (LAMP) stack on Ubuntu 18.04

      [Blog post]. Retrieved from https://www.digitalocean.com/community/tutorials/how-to-

      install-linux-apache-mysql-php-lamp-stack-ubuntu-18-04

A "LAMP" stack is a group of open-source software that is typically installed together to

enable a server to host dynamic websites and web apps. This term is actually an acronym that

represents the Linux operating system, with the Apache web server. The site data is stored in

a MySQL database, and dynamic content is processed by PHP. In this guide, we will install a

LAMP stack on an Ubuntu 18.04 server.

　　This page guided me through my first assignment of setting up a LAMP server.

Ferguson, R. & Heilmann, C. (2013). *Beginning JavaScript with DOM scripting and Ajax* (2nd

　　　　ed.). New York, NY: Springer.

　　JavaScript has gone though a huge transformation, from being something that was nice to

know to being essential to developing web sites that are fully featured and take full advantage of

the new capabilities built into browsers. The amount of attention given to JavaScript though

libraries and frameworks has grown at an accelerated rate. This book starts with the basics and

gives you a good foundation on how to write JavaScript in an unobtrusiveway, keeping your

structure (HTML), presentation (CSS), and behavior (JavaScript) separate. There are also

examples of how to keep your sites accessible for visitors using screen readers, as well as

examples of how to develop your site if JavaScript is not available. We also cover subjects like

objected detection versus browser detection, AJAX, and HTML 5 form validation. This book is

full of examples you can use to enhance your site and add features based on the enhanced

capabilities built into current browsers.

　　I am very uncomfortable with JavaScript, so this text will be a great resource since it is

focused toward beginners and provides many examples of commonly used JS functionality.

Guant, Matt. Web Push Book. Retrieved from https://web-push-book.gauntface.com

　　This website has a whole mess of content on implementing push for the web. The push

messaging API is still new and the spec has only just started to settle. This site covers how to use

the API and answers common questions that arise when implementing push for the web.

This text reviews basic push protocol, which will be crucial for AutoTrack to notify users of important events.

GitHub. GitHub: Guides. Retrieved from https://guides.github.com

GitHub flow is a lightweight, branch-based workflow that supports teams and projects where deployments are made regularly. This guide explains how and why GitHub flow works, how to create documentation for your GitHub projects, and basic Git commands. This source will help me to utilize the features that GitHub provides so that other developers can understand my work more effectively.

I have very limited experience using GitHub several years ago, so this site will be invaluable as I polish my Git technical skills.

Heinig, I. (2018). 5 best practices for website UX [Blog post]. Retrieved from

https://themanifest.com/web-design/5-best-practices-website-ux

What good is a beautiful website if it's confusing and impractical? Focusing on the key elements of website design will help you create an easy-to-use website. How you integrate these elements of website design contributes to your website's user experience (UX). User experience encompasses every aspect of the user's interaction with a company and it's products and services. The objective of a website's UX design is to create a welcoming and usable platform that helps users get what they need and encourages repeat usage. Here are five UX best practices for creating a usable website.

This article is a good starting point for me as I design my website. I'm fairly uncomfortable with front-end programming, but it is crucial for me to develop my full-stack development skills. Its concepts will be good to keep in mind as I attempt to design an intuitive user experience.

Kili, A. (2018). How to install VirtualBox guest additions in Ubuntu [Blog post]. Retrieved from

   https://www.tecmint.com/install-virtualbox-guest-additions-in-ubuntu

  VirtualBox Guest Additions are a collection of device drivers and system applications

designed to achieve closer integration between the host and guest operation systems. They help

to enhance the overall interactive performance and usability of guest systems. They offer features

such as easy mouse pointer integration, a shared clipboard of the host and guest operating

system, better video support, and standard host/guest communication channels. They should be

installed inside a virtual machine after the guest operating system has been installed. In this

article, we will explain how to install VirtualBox Guest Additions on Ubuntu and Debian based

distributions.

  Because I am practicing remote development, VirtualBox guest additions will ease the use of

the server machine. This source helped guide my LAMP install process.

PhpStorm. (2019). PhpStorm 2019.1 Help. Retrieved from

   https://www.jetbrains.com/help/phpstorm/angularjs.html

  AngularJS also known as Angular 1 is a framework for developing single page web

applications. PhpStorm suggests AngularJS-aware completion options for predefined and

custom ng directives and for controller and application names, as well as code insights for data

bindings inside curly-brace expressions {{}}. You can use built-in AngularJS live templates and

navigate between the name of a controller in HTML and its definition in JavaScript.

  I plan to use this site as a guide for configuring my IDE and setting up my application.

Nixon, R. (2014). *Learning PHP, MySQL, & JavaScript with jQuery, CSS & HTML5* (4th ed.).

   Sebastpool, CA: O-Reilly Media, Inc.

The combination of PHP and MySQL is the most convenient approach to dynamic, database-driven web design, holding its own in the face of challenges from integrated frameworks—such as Ruby on Rails—that are harder to learn. Due to its open source roots (unlike the competing Microsoft .NET Framework), it is free to implement and is therefore an extremely popular option for web development. Any would-be developer on a Unix/Linux or even a Windows/Apache platform will need to master these technologies. And, combined with the partner technologies of JavaScript, jQuery, CSS, and HTML5, you will be able to create websites of the caliber of industry standards like Facebook, Twitter, and Gmail. This book is for people who wish to learn how to create effective and dynamic web sites. This may include webmasters or graphic designers who are already creating static websites but wish to take their skills to the next level, as well as high school and college students, recent graduates, and self-taught individuals.

I plan to use this source as a guide as I expand my PHP knowledge base. It has several examples of core concepts such as arrays, objects, and MySQL integration

Ruebbelke, L. & Ford, B. (2015). *AngularJS in Action*. Manning Publications. Retrieved from

https://proquest-safaribooksonline-

com.dml.regis.edu/book/programming/javascript/9781617291333

AngularJS is quickly becoming one of the front-end frameworks to use. It's also one of the most rapidly changing frameworks out there. In this book, you'll learn how you can build an exciting application from top to bottom with AngularJS, while learning what controllers, templates, directives, services, factories, and providers are. Instead of an extensive in-depth guide to Angular's features, in this book you'll get a quick glance at what they are and then get your hands dirty so you can learn by using them! You'll learn not only how to code this application, but also how to test it.

This text illustrates how a straightforward application utilizes AngularJS. I plan to reference it as I implement the front-end of AutoTrack.

Sarkar, S.R. AngularJS PHP REST CRUD example [Blog post]. Retrieved from

https://www.roytuts.com/angularjs-php-rest-crud-example

In this tutorial we will see the integration of AngularJS with PHP REST. We are going to create CRUD application using PHP REST API on server side and AngularJS is encapsulated within html file on client side. Thus the client will communicate with server asynchronously using AngularJS $http service.

This is an excellent source for me to reference, as I plan to implement RESTful services utilizing PHP and AngularJS.

The PHP Group. (2019). PHP: Manual. Retrieved from

https://www.php.net/manual/en/index.php

PHP, which stands for "PHP: Hypertext Preprocessor" is a widely used Open Source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. Its syntax draws upon C, Java, and Perl, and is easy to learn. The main goal of the language is to allow web developers to write dynamically generated web pages quickly, but you can do much more with PHP. This manual consists primarily of a function reference, but also contains a language reference, explanations of some of PHP's major features, and other supplemental information.

This source will be useful as a reference as I plan to implement the back-end of my application using PHP.