

StickyTrades.com

Technology Overview

Infrastructure in Google Cloud

- Single Linux Server VM – Ubuntu 22.04 LTS
- Typical LAMP Stack – Apache, MySQL, PHP 8 (not containerized (docker, heroku, etc.)

Technology

- PHP – All HTML pages generated with PHP
 - A few CLI PHP scripts run as Cron Jobs (bulk sending SMS messages, daily updates from Authorize.net payment gateway, etc.)
 - Consistent coding style - well commented
 - Uses a custom, lightweight ORM/AR (Object Relational Map/Active Record) framework to provide a level of abstraction between the application logic and database operations.
- Javascript – Client-side interactivity implemented with vanilla JS (not JQuery, etc)
 - Pages are mostly asynchronous – but some AJAX implemented with vanilla JS fetch API
 - Form validations mostly done with Bootstrap validation, some custom JS as needed.
- CSS – Presentation uses Bootstrap 5, with custom CSS as needed.
- GIT – Document Management implemented with command line GIT.
 - Live apps pull from Bare GIT Repos, which separate non-live GIT work trees can push to.
- Google ReCaptcha 3 - Secures certain form submissions.
- Main API interactions, all transactions implemented with PHP
 - Authorize.net – for payment processing
 - Sendgrid – for automated outgoing bulk emails (we send through https, Sendgrid sends SMTP)
 - Twilio – for automated outgoing bulk texts (we send through https, Twilio sends SMS)
 - LearnWorlds – SSO for seamless transfer to our short courses curated on Learnworlds site
 - Active Campaign – for syncing our current member/subscriber list with Active Campaign marketing app

Scope

- Separate Public App and Admin App
 - Each App in a Separate folder - a few dozen PHP files, etc. in each.
 - Separate membership/login for each App - cookie-based logged on state.
- Public App
 - Wordpress entry pages - Stand-alone Wordpress installation on the server.
 - Pages built using a Divi Template and Divi Tools.
 - A page template (header/footer) scraped from Wordpress site is wrapped around all non-Wordpress application pages to provide uniformity across public app.
- Admin App
 - Admin dashboard style presentation for separate admin app (doesn't share Wordpress header/footer scrape)
 - Admin Accounts by invitation only
- MySql Database
 - There are about 30 tables, some of which are standard lists (e.g. US states, country codes) and some of which are just for logging stuff.