Git & GitHub Quick Reference for CRM Project

# 1. Git Basics (Local)

* **Check Status:** `git status` - Shows the current changes, staged or unstaged.
* **Stage All Changes:** `git add .` - Adds all modified and new files to staging.
* **Commit Changes:** `git commit -m "your message"` - Saves staged changes with a message.
* **Undo Local Changes:** `git restore <file>` - Discards local changes in a file.
* **View Commit History:** `git log` - Shows a list of previous commits.

# 2. Pushing to GitHub

* **Set Remote Repo:** `git remote add origin <repo-url>` - Links local repo to GitHub (do this once).
* **Push to GitHub:** `git push -u origin main` - Sends committed changes to GitHub.
* **Pull Latest Changes:** `git pull origin main` - Fetches changes from GitHub.

# 🚀 How to Use GitHub + Copilot Together

* **🧠 Copilot Code Suggestions**
* In any .php or .js file, just **start typing** a comment or function:
* php
* CopyEdit
* // Calculate quote totals from items
* Copilot will auto-suggest code based on the context.
* **🛠️ GitHub Controls in VS Code**
* Click the **Source Control icon** on the left sidebar (or press Ctrl+Shift+G) to:
* Commit
* Stage files
* Push to GitHub

# 🧪 Bonus: Open Copilot Chat

* To ask questions or request changes:

1. Press Ctrl+I (or click the 🧠 icon at top right)
2. Type something like:

* css
* CopyEdit
* Add form validation to the QuoteController

1. It will scan your open files and suggest changes.

# 3. Laravel Artisan Essentials

* **Start Local Server:** `php artisan serve` - Runs the Laravel app locally on http://127.0.0.1:8000
* **Run Migrations:** `php artisan migrate` - Applies all database migrations.
* **Link Storage:** `php artisan storage:link` - Makes storage/public accessible via /storage.
* **Clear Cache:** `php artisan config:clear` - Clears Laravel cached configs.

# 4. Notes for MMS CRM Development

* 💡 Always commit small changes often with meaningful messages.
* 🧱 Dealer records must be solid before creating Quotes.
* 📦 Quotes will evolve into Invoices and Purchase Orders.
* 🧪 Test UI regularly using artisan serve and VS Code Live Preview.
* 🧠 Use Copilot for repetitive logic and form building.
* 🚫 Avoid renaming migrations once run – instead, create new ones to alter structure.
* 🧭 Refer to `master\_version\_vXX.txt` for current architecture snapshot.