

# GitHub Workflow: Building a Contact Form Feature (Solo Agile Dev)

## Overview

- This guide explains how to use Git, GitHub Issues, and pull requests to build a feature in this case, a contact form recruiters can use to message you via your portfolio website.
- You'll use a solo Agile workflow with feature branches, a dev branch for sprint work, and a main branch for production-ready code.

## Step 1: Plan the Feature with an Issue

- 1. Create an issue on GitHub to describe the contact form feature.
- Title: Feature: Add Contact Form
- Description:
  - Add a form with fields: name, email, message
  - Validate input fields
  - Store messages or send via email
  - Display success or error message
  - Deploy the updated site
- Label: enhancement
- Checklist:
  - [ ] Design form UI
  - [ ] Add POST route to handle form
  - [ ] Add validation
  - [ ] Store or send message
  - [ ] Test form logic
  - [ ] Deploy to production

## Step 2: Create a Feature Branch and Build

- 1. Start from dev branch: `git checkout dev`
- 2. Create a feature branch: `git checkout -b feature/add-contact-form`
- 3. Build the form in this branch and commit progress regularly.
- 4. Push to GitHub: `git push origin feature/add-contact-form`
- 5. Open a pull request (base: dev, compare: feature/add-contact-form).
- 6. In the PR, link to the GitHub issue using: Closes #issue\_number

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- 7. After confirming functionality and tests, merge the PR into dev.
- 8. Delete the feature branch locally and remotely after merge.

### **Step 3: Merge to Main at Sprint End**

- When all sprint tasks (including the contact form) are complete:
  - 1. Open a pull request from dev → main
  - 2. Title: Sprint Merge - Contact Form + Fixes
  - 3. Description: Summarize included features and confirm all tests passed
  - 4. Merge into main and deploy your updated portfolio site
  - 5. Close the related issues on GitHub

### **Summary: Your Git + GitHub Workflow for This Feature**

- GitHub Issues: Used for planning and tracking the contact form feature
- Branches: Used feature/add-contact-form → merged into dev → merged into main
- Pull Requests: Used to review, document, and integrate work
- Agile Practice: Treated the contact form as a sprint feature with a checklist and clean PR