Documentation for Automated Deployment to QC Soiver8

Goal: Automate deployment to QC Soiver8 through github actions

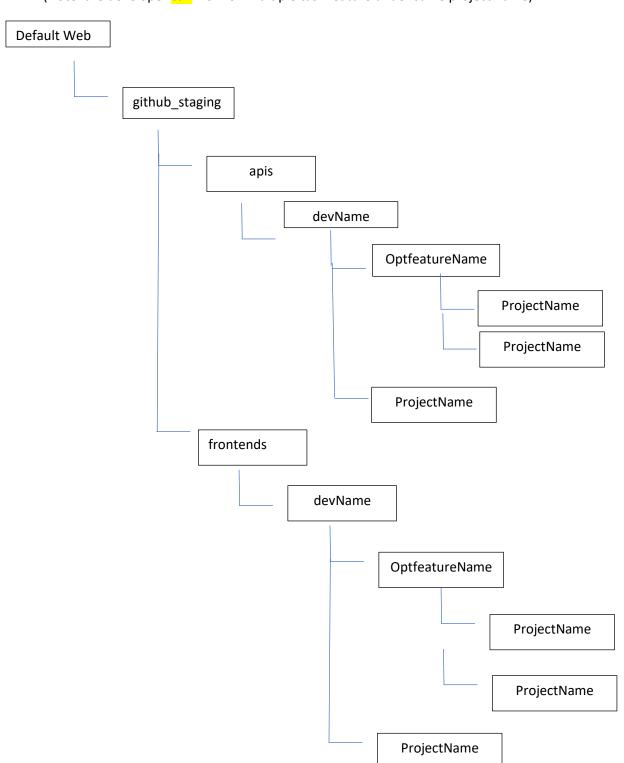
Tools used:

- Git bash /Command line / Github Desktop
- Github online UI (Github Actions- Actions tab inside the repository)

Section1:

Proposed folder structure in IIS:

(Note: the developer can work on multiple task feature under same project name)

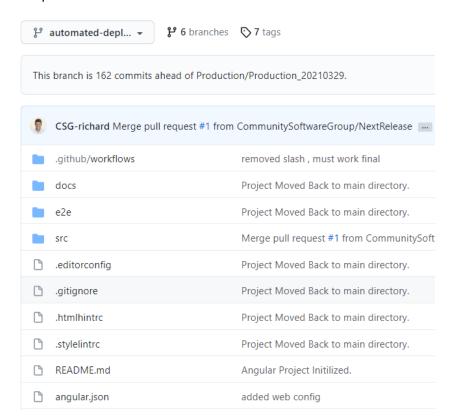


Section2: How Github actions Work?

Step 1:



Example: folder structure



```
🚏 automated-depl... 🕶 ContractSystem / .github / workflows / build.yml
CSG-richard folder name changed to dev name
A 1 contributor
57 lines (40 sloc) | 1.86 KB
     name: build contract system UI
     3 on:
              branches:
                - automated-deployment/RD
  10 jobs:
                                                                                                                                                                              On →specifies event trigger
                 Job1:
                           name: build contract system
                                                                                                                                                                              Jobs contains steps
                         runs-on: [Soiver8-Runner]
                      env:
                            CI: false
                           steps:
                            - name: checkout code
  20
                                uses: actions/checkout@v2
                            - name: setup-node 14
                              uses: actions/setup-node@v2
                                    node-version: '14'
                          - name: install dependencies
                                 run: C:\Program` Files\PowerShell\7\pwsh -command npm ci
  29
                            - name: build-angular and deploy
  30
                                   CI: false
                              run:
                                      $devName = "Charlie"
                                    $OptFeatureFolderName=""
                                      $frontEndName = "ContractSystem"
                                       if (!($OptFeatureFolderName.length -eq 0)){$OptFeatureFolderName= "\" + $OptFeatureFolderName}
                                       \label{thm:continuous} $$ target= "D: \test_1_soiver8 = thm: + $fontends + $
  41
                                       $baseRefPath= $baseRefPath.replace("\","/")
   44
   45
                                       46
  47
   48
                                        if (Test-Path -path $target )
  49
  50
                                       Remove-Item $target -Recurse
                                       Copy-Item "C:\actions-runner\_work\ContractSystem\ContractSystem\dist" -Recurse -Destination $target
                                       echo "
                                        Physical-path = `"$target`"
                                        Frontend-URL= `"http://test_1_soiver8.communitysoftwaregroup.com$baseRefPath`""
```

General changes that are required by the developer:

```
- name: build-angular and deploy

env:

CI: false

run: |

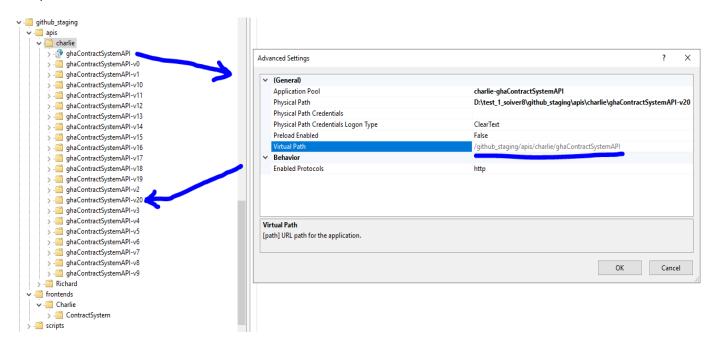
$devName = "Charlie"

$optFeatureFolderName=""

$frontEndName = "ContractSystem"
```

- Enter the above fields.
- OptFeatureFolderName (optional Feature folder name) can be left empty string.
- The details enter will result in the creation of folder structure in QC soiver8 as mentioned section 1.

Example: The IIS folder structure will look like



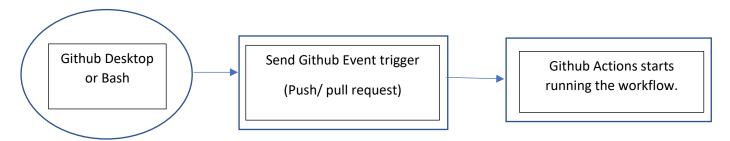
For API deployment:

- Repeated build to QC with same folder path, will create a new build folder with versioning.
- When the folder path remains unchanged, the Virtual path remains the same.
- The application physical path points to the latest version of folder.

For UI Deployment:

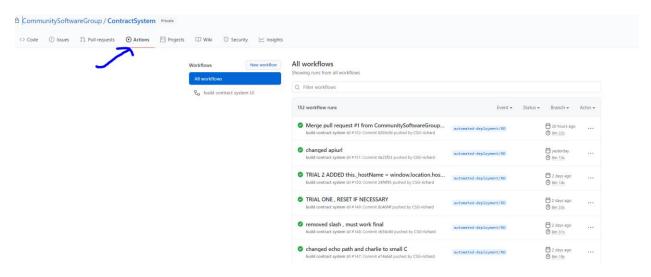
Base href is changed automatically to match deployment path through the workflow

Step2:

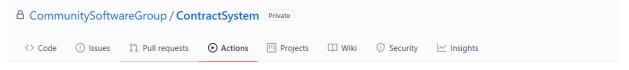


• Open the Actions tab to view the workflow run status and logs, stats, previous logs.

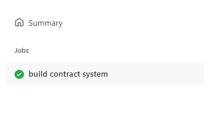
Example:

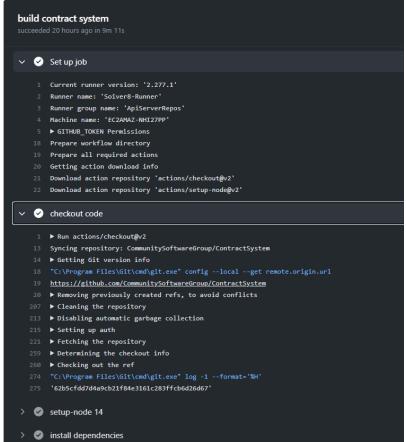


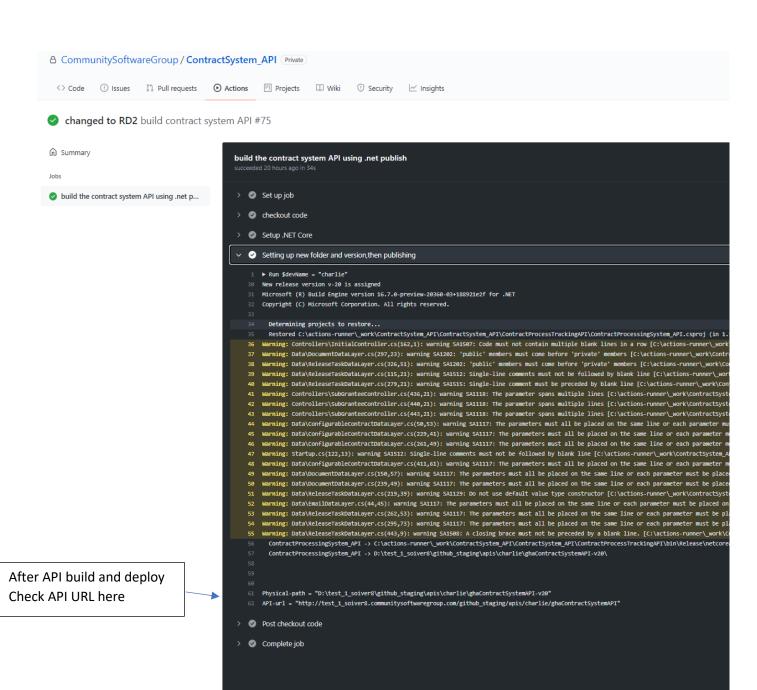
View the logs while the run is progress or access previous logs by clicking on the workflow and commit message corresponding to the event.



Merge pull request #1 from CommunitySoftwareGroup/NextRelease build contract system UI #152









lobe

build contract system

After UI build and deploy ,

Check UI URL here

```
build contract system
       COMPTITING GANGATON (COLCACTING . COSTATO OF CONTACTO
   73 Compiling @angular/platform-browser-dynamic : es2015 as esm2015
   74 Compiling @angular/platform-browser/testing : es2015 as esm2015
   75 Compiling @angular/common/testing : es2015 as esm2015
   76 Compiling @angular/router : es2015 as esm2015
   77 Compiling @angular/animations/browser/testing : es2015 as esm2015
   78 Compiling @angular/cdk/clipboard : es2015 as esm2015
   79 Compiling @angular/cdk/drag-drop : es2015 as esm2015
   80 Compiling @angular/common/http/testing : es2015 as esm2015
   81 Compiling @angular/material/autocomplete : es2015 as esm2015
      Compiling @angular/material/badge : es2015 as esm2015
   83 Compiling @angular/material/bottom-sheet : es2015 as esm2015
   84 Compiling @angular/material/button-toggle : es2015 as esm2015
   85 Compiling @angular/material/card : es2015 as esm2015
      Compiling @angular/material/checkbox : es2015 as esm2015
   87 Compiling @angular/material/chips : es2015 as esm2015
   88 Compiling @angular/material/datepicker : es2015 as esm2015
   89 Compiling @angular/material/expansion : es2015 as esm2015
   90 Compiling @angular/material/grid-list : es2015 as esm2015
   91 Compiling @angular/material/icon/testing : es2015 as esm2015
   92 Compiling @angular/material/list : es2015 as esm2015
   93 Compiling @angular/material/menu : es2015 as esm2015
   94 Compiling @angular/material/progress-bar : es2015 as esm2015
   95 Compiling @angular/material/progress-spinner : es2015 as esm2015
   96 Compiling @angular/material/radio : es2015 as esm2015
   97 Compiling @angular/material/sidenav : es2015 as esm2015
   98 Compiling @angular/material/slide-toggle : es2015 as esm2015
   99 Compiling @angular/material/slider : es2015 as esm2015
  100 Compiling @angular/material/snack-bar : es2015 as esm2015
  101 Compiling @angular/material/stepper : es2015 as esm2015
  102 Compiling @angular/material/table : es2015 as esm2015
  103 Compiling @angular/material/tabs : es2015 as esm2015
  104 Compiling @angular/material/toolbar : es2015 as esm2015
  105 Compiling @angular/material/tree : es2015 as esm2015
  106 Compiling @angular/platform-browser-dynamic/testing : es2015 as esm2015
      Compiling @angular/router/testing : es2015 as esm2015
  108 Compiling @angular/service-worker : es2015 as esm2015
      Compiling @ckeditor/ckeditor5-angular : es2015 as esm2015
  110 Compiling @ng-bootstrap/ng-bootstrap : es2015 as esm2015
      Compiling ng2-dragula : es2015 as esm2015
  112 Compiling ng2-tooltip-directive : es2015 as esm2015
      Compiling ngx-ckeditor : es2015 as esm2015
  114 Compiling ngx-editor : es2015 as esm2015
      Generating ES5 bundles for differential loading...
  116 ES5 bundle generation complete.
  chunk {0} runtime-es2015.0dae8cbc97194c7caed4.js (runtime) 1.45 kB [entry] [rendered]
  chunk {0} runtime-es5.0dae8cbc97194c7caed4.js (runtime) 1.45 kB [entry] [rendered]
  chunk {2} polyfills-es2015.5c8ee57095c9c9862a4f.js (polyfills) 36.8 kB [initial] [rendered]
  chunk {3} polyfills-es5.9c1bddce9267f5ff6131.js (polyfills-es5) 130 kB [initial] [rendered]
  122 chunk {1} main-es2015.b6cc490db4786282e9a1.js (main) 1.9 MB [initial] [rendered]
  123 chunk {1} main-es5.b6cc490db4786282e9a1.js (main) 2.18 MB [initial] [rendered]
  124 chunk {4} styles.39c60a079f93ac7e70e8.css (styles) 197 kB [initial] [rendered]
  125 Date: 2021-04-07T15:57:51.3937 - Hash: 49fea874044aa858bbde - Time: 282930ms
  127 WARNING in budgets: Exceeded maximum budget for initial-es2015. Budget 2 MB was not met by 130 kB with a total of 2.
  129 WARNING in budgets: Exceeded maximum budget for initial-es5. Budget 2 MB was not met by 510 kB with a total of 2.5 MI
  Physical-path = "D:\test_1_soiver8\github_staging\frontends\Charlie\ContractSystem"
  134 Frontend-URL= "http://test_1_soiver8.communitysoftwaregroup.com/github_staging/frontends/Charlie/ContractSystem/"
Post checkout code
    1 Post job cleanup.
```

"C:\Program Files\Git\cmd\git.exe" version