

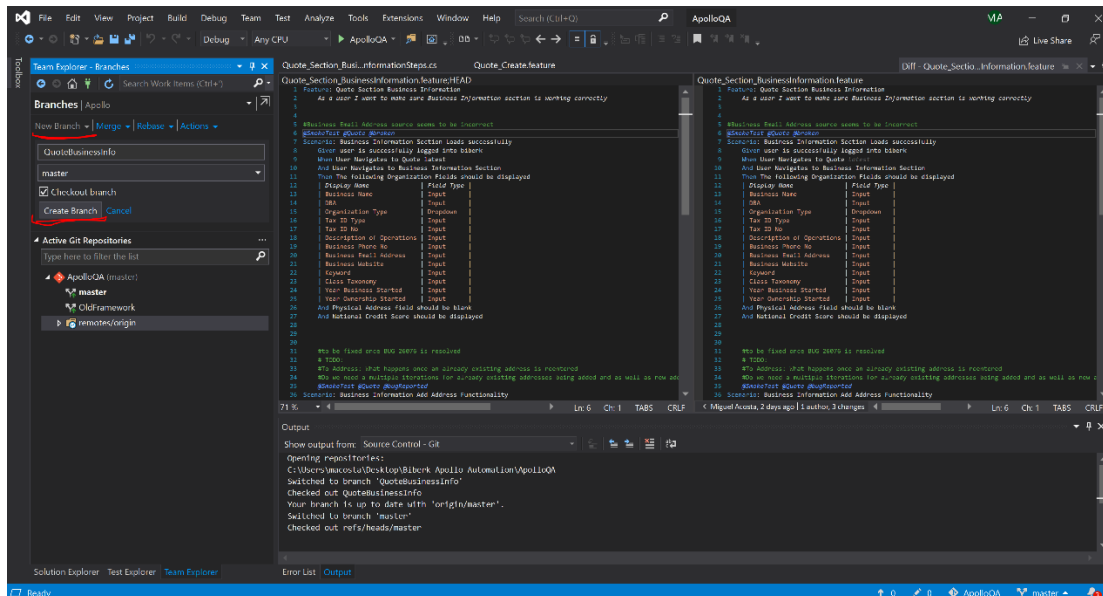
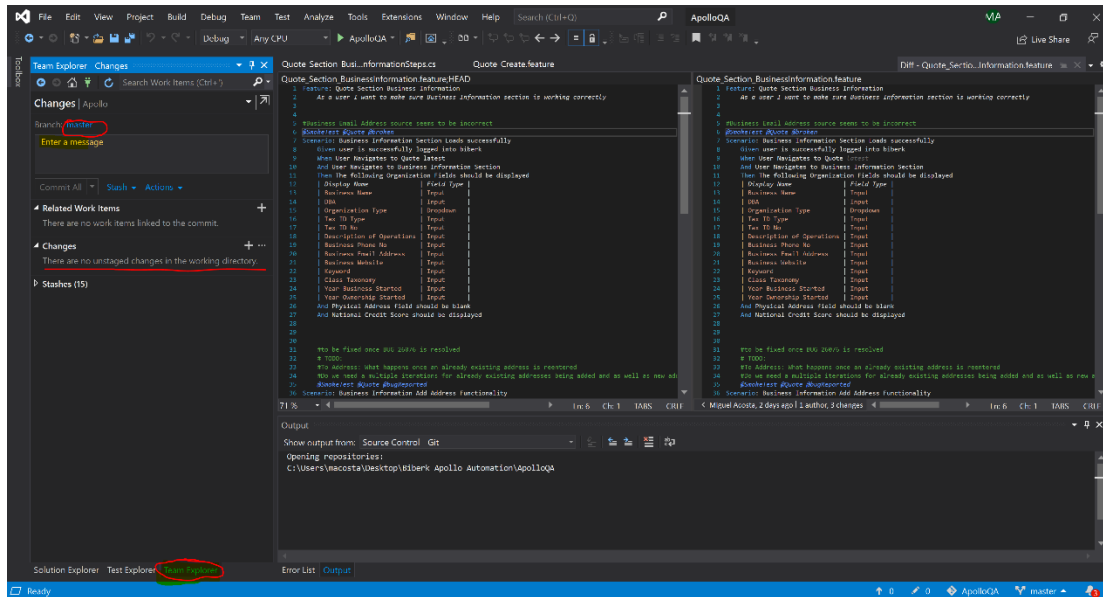
Test Automation Development Workflow

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***Important:** An automation Task (Azure work item) should have one to one relationship to a specific branch.
A task is not considered complete until a pull request has been completed for it

Creating a new branch

1. Make sure current branch is Master with no changes
2. Make sure name is according to the user story or functionality to be automated

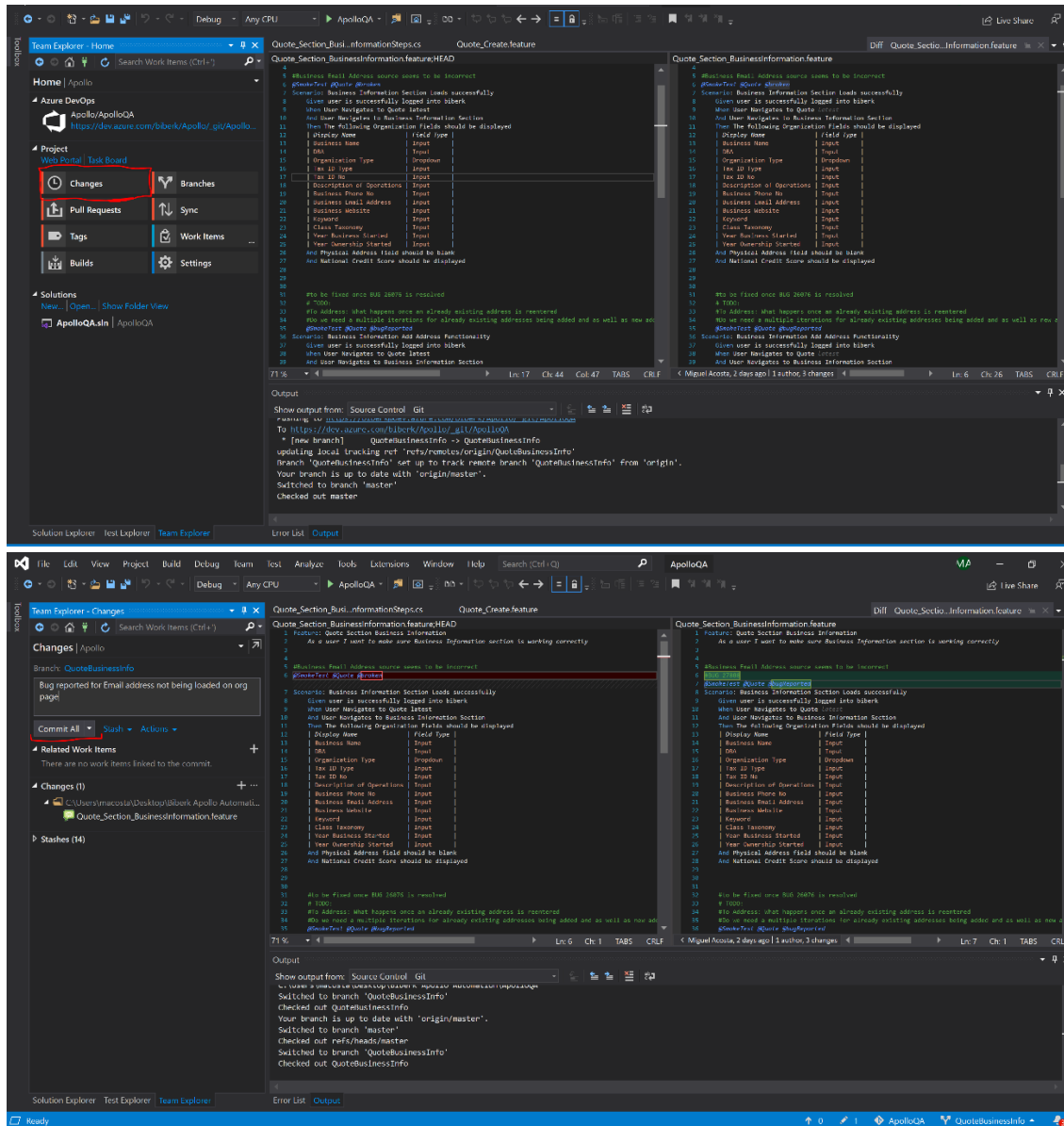


Commit changes

ideally one should commit for every scenario completed, one could also commit once the whole User Story or functionality is automated

note: is ideal to divide changes into various commits to then push everything altogether

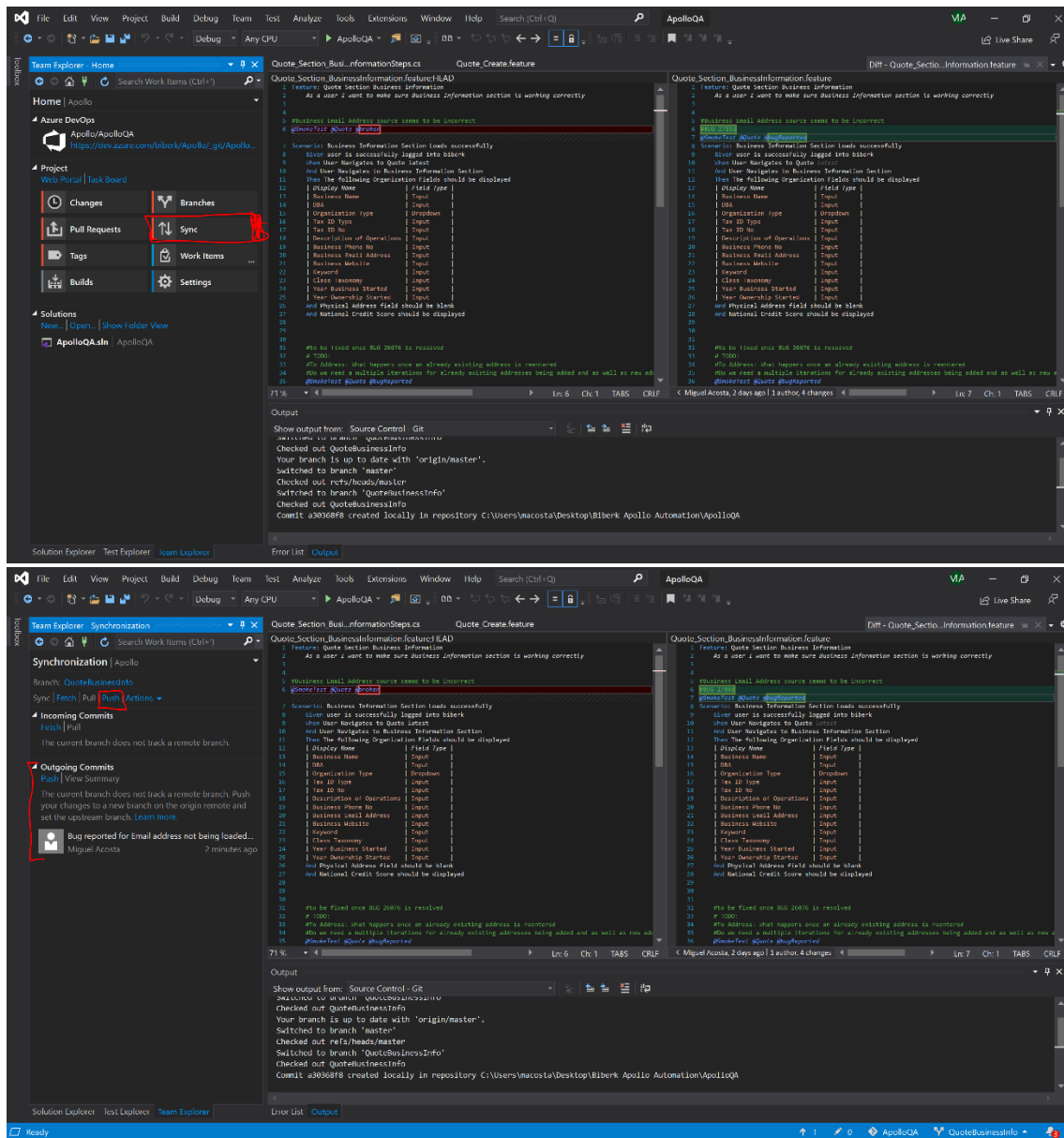
1. Commit with a brief description of the changes



Pushing changes

Once the whole user story or functionality is completed and working locally

1. Push the previously committed changes to the previously created branch



Run test in Azure Pipeline

To make sure the implemented solution is working in the Azure Pipeline, our official test runner, we're going to run the pipeline for the previously created branch.

1. Navigate to [ApolloQA Pipeline](#) in Azure DevOps
2. Run the pipeline for the previously created branch

The screenshot displays the Azure DevOps interface for the 'ApolloQA' pipeline. The left sidebar shows the navigation menu with 'Pipelines' selected. The main area shows a list of pipeline runs. A 'Run pipeline' dialog box is open in the foreground, allowing the user to select a branch/tag and configure advanced options.

ApolloQA Pipeline Runs

Description	Stages	Time
#20201221.2 Removed colons causing reporting issues Manually triggered for master d9674e1	1	2h ago 25m 10s
#20201221.1 Tagged org tests as bugReported Manually triggered for master 14fad22	2	3h ago 42m 12s
#20201218.13 Global Search adding bugReported tag Manually triggered for master 09601e5	1	Friday 12m 7s
#20201218.12 Global Search adding bugReported tag Manually triggered for master 09601e5	1	Friday 38m 27s
#20201218.11 Global Search adding bugReported tag Manually triggered for master 09601e5	1	Friday 9m 58s
#20201218.10 Global Search adding bugReported tag Manually triggered for master 09601e5	1	Friday 13m 7s
#20201218.9 minor bug fix Manually triggered for master 0cb7b4f	1	Friday <1s
#20201218.8 minor bug fix Manually triggered for master 0cb7b4f	1	Friday 12m 27s
#20201218.7 excluding broken scenarios	-	Friday

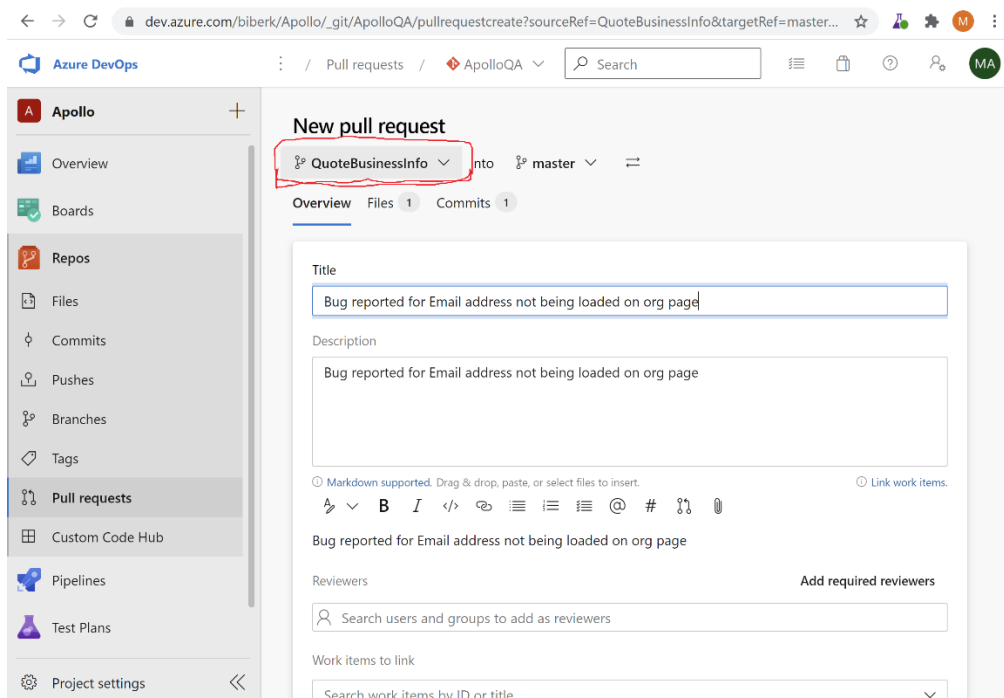
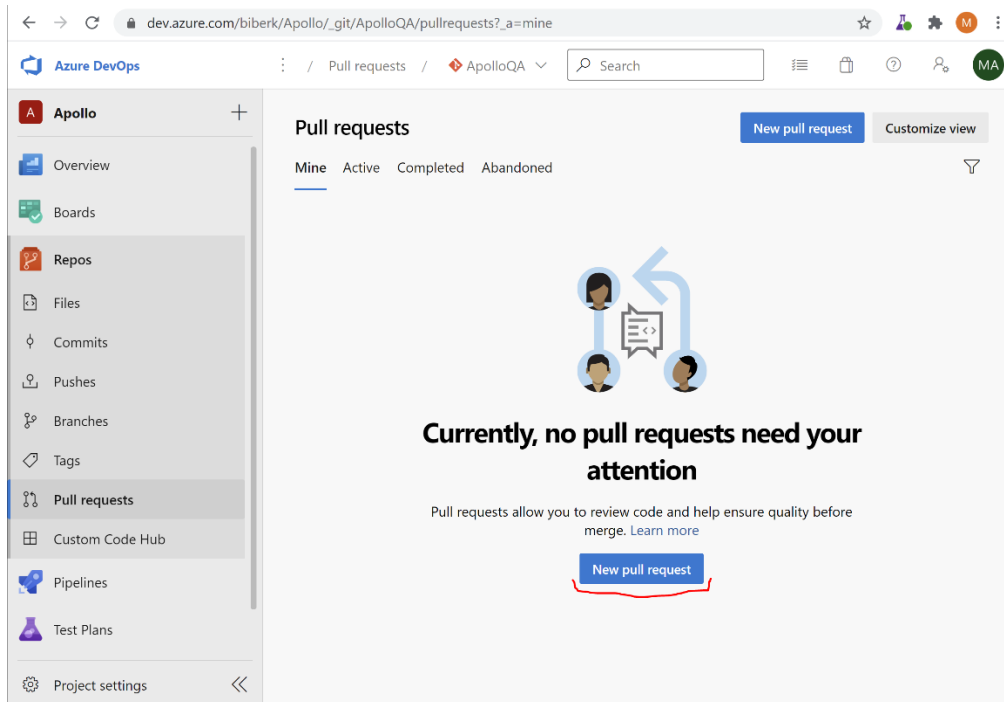
Run pipeline dialog box:

- Branch/tag:** QuoteBusinessInfo
- Advanced options:**
 - Variables:** This pipeline has no defined variables
 - Stages to run:** Run as configured
 - Resources:** Use latest version of all resources
- ☐ Enable system diagnostics
- Buttons:** Cancel, Run

Create a Pull Request

Once the pipeline test is successful, a pull request should be created to be reviewed before merging into master

1. Navigate to [Pull Requests](#) in Azure DevOps
2. Click on the “New Pull Request” Button
3. Select the previously created branch
4. Click on the “Create” Button



Link work items

Every pull request must have two linked work items associated.

1. Related Task
2. Test Case must be created/updated according to the work done.
3. Test Case must be added to:
Regression Testing->Automated.

The screenshot displays the Azure DevOps interface for the 'Apollo' project. The left sidebar contains a navigation menu with the following items: Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, Load test, Load test, Custom Test Hub, and Artifacts. The 'Test Plans' section is currently selected, showing a list of test suites. The main area displays the following test suites: Sprint 18, Sprint 19, Sprint 20, Sprint 21, Sprint 22, Sprint 23, Sprint 24, Sprint 25, Sprint 26, Sprint 27, Sprint 28, Regression Testing - Phase1, Smoke Test, Automated (47), Manual, and Future (7). The 'Automated (47)' suite is highlighted with a red box. At the top of the main area, there is a summary for the 'Past' period (Jan 3 - Jan 10) showing '31% run, 76% passed' with a 'View report' link.

Set auto complete

Once work for the related task is fully completed and tested in the pipeline with no failures. The PR can be set to auto complete.

This will trigger completion after all requirements have been met.

