

K8-S14

Organizational and Procedures At Labman For Source Control

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**5th September 2024

At work, our code is source controlled using git, with our remote branches being located on Azure DevOps. We have a few organisational procedures to make sure pushed into the main branch is of high quality.

For starters, our version control management practice is trunk-based development, this is where developers merge small, frequent updates to a core "trunk" or main branch. Labman's version of this is pull from main, create a branch using a naming convention, work on what you're doing, and create a pull request. My workflow for creating a branch is:

1. When assigned to a feedback item, that I'm going to work on at present, I'll start off by running `git checkout main`, this will switch my current git working branch to main.

```
Windows PowerShell
PS C:\Users\aclarkson\Website> git checkout main
Switched to branch 'main'
```

2. I would then pull all changes from the remote branch, to make sure local branch is up-to-date. I'd do this with the command `git fetch origin`

```
PS C:\Users\aclarkson\Website> git fetch origin
```

3. Our naming convention for branches is:

`<username>_<intranet module>_<feedback item id>_<small imperative sentence of changes being made>.`

With this feedback item for example:

The screenshot shows the Labman intranet interface. A feedback item titled "Convert all jquery dialog boxes to easy popups" is displayed in a modal window. The item is assigned to Arthur Clarkson, has a status of "Development Backlog", and a priority of "Low". The feedback type is "Idea" and the work duration is "6 Hours". The sync target is "N/A" and the complexity is "Unrated". The comments section shows a history of updates: "09/11 Added to Intranet", "12/12 Status changed to Approved / Queued", "22/01 Status changed to Development Backlog", and "06/02 A quick vscode regex search for '@Html.DialogBox' shows 16 instances. Will be a big job, estimated time to complete 6 hours." The background shows the Labman intranet sidebar with various navigation links like Home, Knowledge, Financial, Operational, Projects, Sales / Marketing, Team, Email Signature Template, Feedback & Bugs, In/Out Board, New Starter Board, Employment Dashboard, Printable Staff List, Squad, Active Users List, Add a House Elf Message, and User Provisioning.

My branch name would be `aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups`. I would create this branch with the `git branch aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups`.

4. Then to change my local branch to the one I've just created I'd use the command:

`git checkout aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups`

```
PS C:\Users\aclarkson\Website> git checkout aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups
Switched to branch 'aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups'
PS C:\Users\aclarkson\Website> |
```

To create a remote version of my branch, once I've made a few changes, I'd use the commands:

`git commit -a -m 'init commit + <short description of changes made>'` to create the initial commit to the remote branch.

```
PS C:\Users\aclarkson\Website> git commit -a -m 'init commit + converted dialog box in sales to easypopup'
[aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups fb14c8790] init commit + converted dialog box in sales to easypopup
1 file changed, 2 insertions(+)
PS C:\Users\aclarkson\Website> |
```

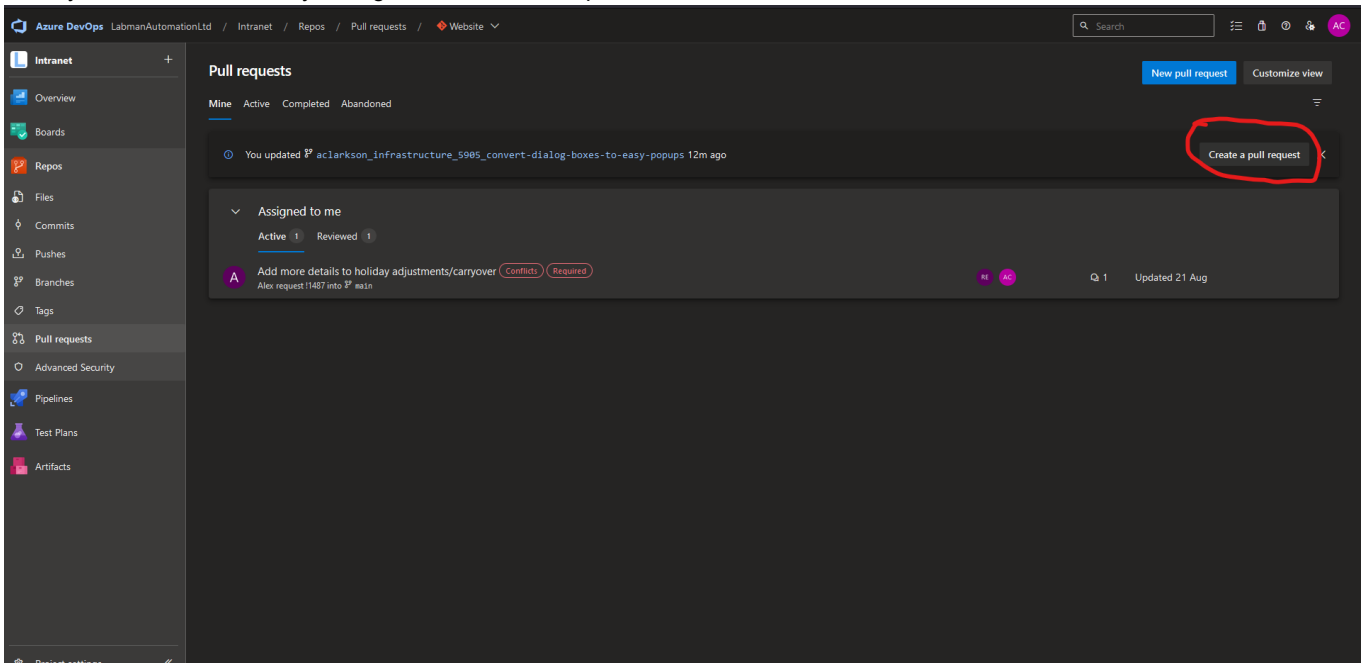
I'd then run the command:

`git push --set-upstream origin aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups` to create the remote branch.

```
PS C:\Users\aclarkson\Website> git push --set-upstream origin aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 12 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 539 bytes | 539.00 KiB/s, done.
Total 6 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Analyzing objects... (6/6) (15 ms)
remote: Validating commits... (1/1) done (0 ms)
remote: Storing packfile... done (27 ms)
remote: Storing index... done (91 ms)
To https://dev.azure.com/LabmanAutomationLtd/Intranet/_git/Website
 * [new branch]      aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups -> aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups
branch 'aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups' set up to track 'origin/aclarkson_infrastructure_5905_convert-dialog-boxes-to-easy-popups'.
PS C:\Users\aclarkson\Website> |
```

Every time I make a milestone within my code, it is a work policy to make a commit within the branch with a suitable message. For example `git commit -a -m 'converted all dialog boxes in feedback module to popups'`

Once the code is tested and I'm happy with the code, it's policy that all branches must be pushed into main via a pull request, which has to be approved and code reviewed by a senior developer. To do this, I'd go onto Azure DevOps pull requests page, it usually has the most recently changed branch at the top:



I'd then give the pull request a valid title, description and choose a required reviewer (senior dev):

New pull request

aclarkson_6561_fixing-spelling-erros into main ↻

Overview Files 1 Commits 1

Title

Fixing Spelling Errors Across The Intranet

Description

I've fixed various spellings across the intranet. Such as color => colour on feedback, and oppertunity => opportunity in sales.

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📎 Markdown supported. Drag & drop, paste, or select files to insert.

① Link work items.

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I've fixed various spellings across the intranet. Such as color => colour on feedback, and oppertunity => opportunity in sales.

Optional reviewers

 Search to add optional reviewers

Required reviewers

RE Richard Edmundson X Search to add required reviewers

Work items to link

Tags

Create

Why are organisational policies important?

Organizational policies and procedures, such as those governing source control, are vital in software development because they ensure that tasks are completed consistently and efficiently. By following these guidelines, developers can maintain code integrity, facilitate collaboration, and streamline the integration process. Adhering to company, team, or client approaches to continuous integration, versioning, and source control not only helps in tracking changes and preventing conflicts but also aligns

individual contributions with the overall objectives of the project. This adherence demonstrates professionalism and a commitment to quality, ensuring that the software developed meets the required standards and expectations.