

Step 1: Commit your current branch changes

Authored by Neth Botheju

Neth recommends: Checking your git status first to see what changes have been made to your current working branch. Make sure to add your ticket name as the heading for the commit message!

```
git status
```

Add your changes to git, this is also called staging using:

```
git add <filename>
```

Or if you are confident you want everything:

```
git add .
```

Then commit your changes:

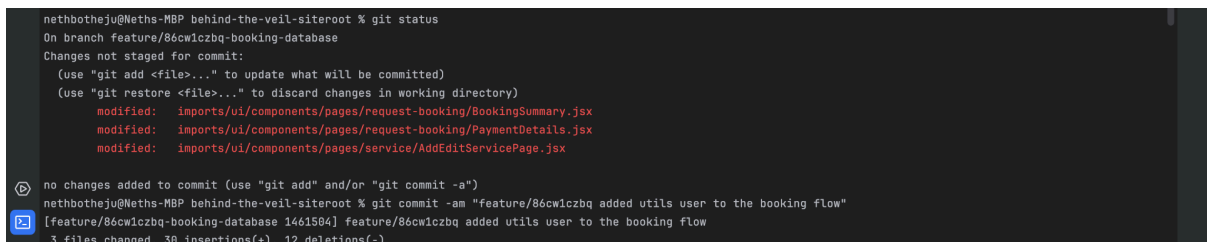
```
git commit -m "feature/ticketnumber <commit message>"
```

Neth recommends: If you are confident you want everything and want to save time you can do the adding and commit in one command using:

```
git commit -am "feature/ticketnumber <commit message>"
```

Neth does not recommend: Do not do a git commit -am command unless you are very certain you want to commit everything in your branch and I mean **EVERYTHING!**

Example:



```
nethbotheju@Meths-MBP behind-the-veil-siteroot % git status
On branch feature/86cwlczbq-booking-database
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   imports/ui/components/pages/request-booking/BookingSummary.jsx
    modified:   imports/ui/components/pages/request-booking/PaymentDetails.jsx
    modified:   imports/ui/components/pages/service/AddEditServicePage.jsx

no changes added to commit (use "git add" and/or "git commit -a")
nethbotheju@Meths-MBP behind-the-veil-siteroot % git commit -am "feature/86cwlczbq added utils user to the booking flow"
[feature/86cwlczbq-booking-database 1461504] feature/86cwlczbq added utils user to the booking flow
3 files changed, 30 insertions(+), 12 deletions(-)
```

Step 2: Pull the latest changes

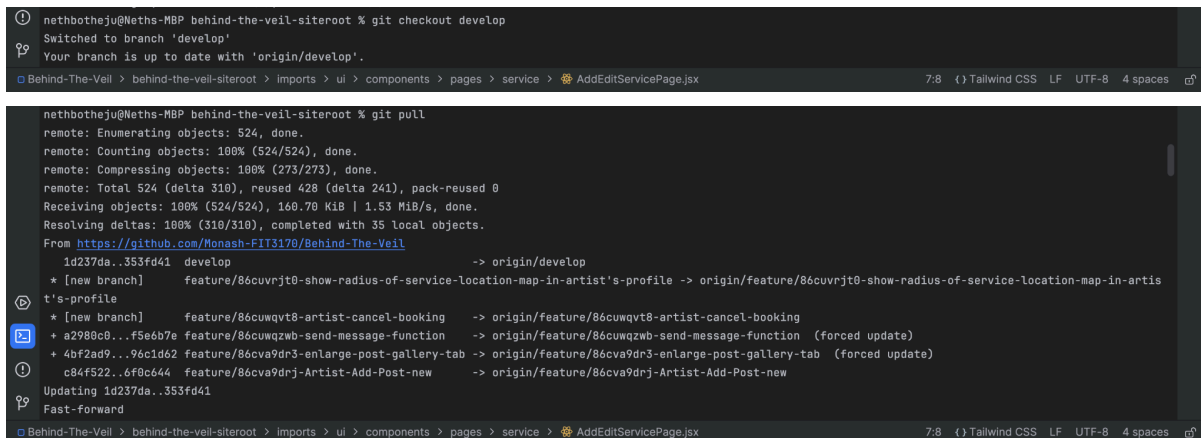
Go into the develop branch and bring down the latest changes:

```
git checkout develop
```

```
git pull
```

Neth does not recommend: doing a git fetch. The difference between fetch and pull is that fetch only brings the changes down from remote, it doesn't apply those changes to your working branch. Pull does fetch and apply together. **Don't be that loser.**

Example:



```
nethbotheju@Neths-MBP behind-the-veil-siteroot % git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.

nethbotheju@Neths-MBP behind-the-veil-siteroot % git pull
remote: Enumerating objects: 524, done.
remote: Counting objects: 100% (524/524), done.
remote: Compressing objects: 100% (273/273), done.
remote: Total 524 (delta 310), reused 428 (delta 241), pack-reused 0
Receiving objects: 100% (524/524), 160.70 KiB | 1.53 MiB/s, done.
Resolving deltas: 100% (310/310), completed with 35 local objects.
From https://github.com/Monash-FIT3170/Behind-The-Veil
 1d237da..353fd41  develop                -> origin/develop
 * [new branch]   feature/86cuvrjt0-show-radius-of-service-location-map-in-artist's-profile -> origin/feature/86cuvrjt0-show-radius-of-service-location-map-in-artist's-profile
 * [new branch]   t's-profile
 * [new branch]   feature/86cuwqvt8-artist-cancel-booking -> origin/feature/86cuwqvt8-artist-cancel-booking
 * a2980c0...f5e6b7e feature/86cuwqzb-send-message-function -> origin/feature/86cuwqzb-send-message-function (forced update)
 * 4bf2ad9...96c1d62 feature/86cva9dr3-enlarge-post-gallery-tab -> origin/feature/86cva9dr3-enlarge-post-gallery-tab (forced update)
 * c84f522...6f0c644 feature/86cva9drj-Artist-Add-Post-new -> origin/feature/86cva9drj-Artist-Add-Post-new
Updating 1d237da..353fd41
Fast-forward
```

Step 3: Rebasing your own branch

Go back to your working working branch:

```
git checkout <yourbranchname>
```

Then begin rebasing

```
git rebase develop
```

Then begin rebasing

Merge lovers: If you prefer merge rather than rebasing, you can essentially follow the same steps without having to go through the rebase cycle, but you WILL still need to solve merge conflicts

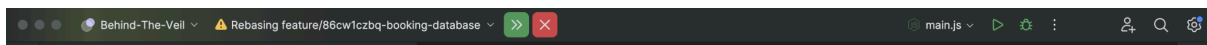
```
git merge develop
```

You'll most likely see this screen - this means you have a conflict.

```
1 /**
2  * File Description: AddEditServices page
3  * File version: 1.1
4  * Contributors: Lucas, Nikki
5  */
6
7 import React, {useEffect, useState} from "react";
8 import {useNavigate, useParams} from "react-router-dom";
9
10 import { useUserInfo } from "../../util";
11 import PageLayout from "../imports/ui/enums/PageLayout";
12 import WhiteBackground from "../imports/ui/components/whiteBackground/WhiteBackground.jsx";
13 import BackButton from "../../button/BackButton";
14 import Input from "../../input/Input";
15 import Button from "../../button/Button";
16
```

```
nethbotheju@Neths-MBP behind-the-veil-siteroot % git checkout feature/86cw1czbq-booking-database
Switched to branch 'feature/86cw1czbq-booking-database'
nethbotheju@Neths-MBP behind-the-veil-siteroot % git rebase develop
Auto-merging behind-the-veil-siteroot/imports/ui/components/pages/request-booking/BookingSummary.jsx
Auto-merging behind-the-veil-siteroot/imports/ui/components/pages/service/AddEditServicePage.jsx
CONFLICT (content): Merge conflict in behind-the-veil-siteroot/imports/ui/components/pages/service/AddEditServicePage.jsx
error: could not apply 1461504... feature/86cw1czbq added utils user to the booking flow
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
Could not apply 1461504... feature/86cw1czbq added utils user to the booking flow
nethbotheju@Neths-MBP behind-the-veil-siteroot % git add .
nethbotheju@Neths-MBP behind-the-veil-siteroot % git rebase --continue
[detached HEAD 502bc98] feature/86cw1czbq added utils user to the booking flow
2 files changed, 29 insertions(+), 11 deletions(-)
Successfully rebased and updated refs/heads/feature/86cw1czbq-booking-database.
```

Neth does not recommend: using the IDE to resolve the conflict (clicking the green >> button). DO NOT unless you are super confident you aren't going to overwrite other people's work.



The command line will **literally** tell you which files you are experiencing these conflicts on. It's scary, I know but let's work through it together hehe.

```
const BookingSummary = () => {  
  // Extract location, date, and time from URL parameters  
  const location :string = urlParams.get('location');  
  const dateTime :string = urlParams.get('time');  
  
  return {  
    'Bride Name': currentUser.alias,  
    'Artist Name': 'Alice Tran',  
    'Service': 'Bachelorette Glam Experience',  
    'Location': location,  
    'Date': getStartAndEndDate(dateTime, serviceDuration: 2), // Hardcoded to be 2-hour duration, can  
    'Total Price': '$120.00',  
  };  
};  
  
BookingSummary() > queryData()
```

```
create mode 100644 behind-the-veil-siteroot/imports/ui/components/pages/register/EmailVerifyPage.jsx  
create mode 100644 behind-the-veil-siteroot/settings.json  
create mode 100644 behind-the-veil-siteroot/tests/users.tests.js  
nethbotheju@Meths-MBP behind-the-veil-siteroot % git checkout feature/86cw1czbq-booking-database  
Switched to branch 'feature/86cw1czbq-booking-database'  
nethbotheju@Meths-MBP behind-the-veil-siteroot % git rebase develop  
Auto-merging behind-the-veil-siteroot/imports/ui/components/pages/request-booking/BookingSummary.jsx  
Auto-merging behind-the-veil-siteroot/imports/ui/components/pages/service/AddEditServicePage.jsx  
CONFLICT (content): Merge conflict in behind-the-veil-siteroot/imports/ui/components/pages/service/AddEditServicePage.jsx  
error: could not apply 1461504... feature/86cw1czbq added utils user to the booking flow  
hint: Resolve all conflicts manually, mark them as resolved with  
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".  
hint: You can instead skip this commit: run "git rebase --skip".  
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".  
Could not apply 1461504... feature/86cw1czbq added utils user to the booking flow  
nethbotheju@Meths-MBP behind-the-veil-siteroot %
```

See, this file has issues. Let's go to it.

```
export const AddEditServicePage = ({isEdit}) => {  
  const onOpenModal = () :void => setOpen( value: true);  
  const onCloseModal = () :void => setOpen( value: false);  
  const [isSuccess :boolean, setSuccess] = useState( initialState: false);  
  
  // get current user information  
  const userInfo :(...) = useUserInfo();  
  
  // if user is not an artist, navigate them away  
  let userInfo = getUserInfo();  
  >>>>> 1461504 (feature/86cw1czbq added utils user to the booking flow)  
  if (userInfo.type !== "artist") {  
    navigateTo('/');  
  }  
};  
  
AddEditServicePage()
```

```
nethbotheju@Meths-MBP behind-the-veil-siteroot % git checkout feature/86cw1czbq-booking-database  
Switched to branch 'feature/86cw1czbq-booking-database'  
nethbotheju@Meths-MBP behind-the-veil-siteroot % git rebase develop  
Auto-merging behind-the-veil-siteroot/imports/ui/components/pages/request-booking/BookingSummary.jsx  
Auto-merging behind-the-veil-siteroot/imports/ui/components/pages/service/AddEditServicePage.jsx  
CONFLICT (content): Merge conflict in behind-the-veil-siteroot/imports/ui/components/pages/service/AddEditServicePage.jsx  
error: could not apply 1461504... feature/86cw1czbq added utils user to the booking flow  
hint: Resolve all conflicts manually, mark them as resolved with  
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".  
hint: You can instead skip this commit: run "git rebase --skip".  
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".  
Could not apply 1461504... feature/86cw1czbq added utils user to the booking flow  
nethbotheju@Meths-MBP behind-the-veil-siteroot %
```

Neth recommends: If you can't be bothered reading the command line do CTRL + SHIFT + F or CMD + SHIFT + F to do a global search and type in ===== or >>>>> and the IDE will show you all the conflicts in every file.

Whatever code I don't want I just delete it

MAKE SURE TO GET RIDE OF THE HEAD >>>> PART TOO!!

Once you are happy with resolving your merge conflict go back to the command line and add your resolved file to git i.e stage it.

```
git add <filename>
```

Or if you are confident you want everything:

```
git add .
```

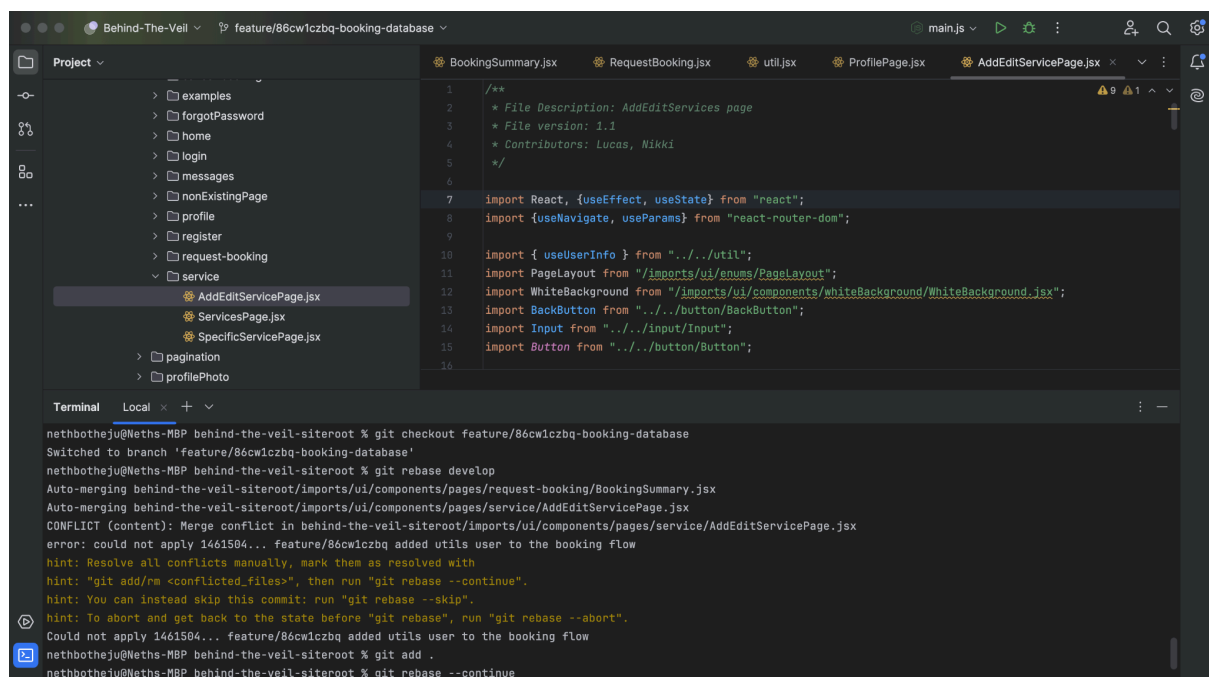
Once the files you want have been added, continue rebasing.

```
git rebase --continue
```

Mergers: You don't need to keep rebasing because merge essentially does a rebase but ALL AT ONCE so you will have more merge conflicts to solve in one go than rebasers who will have to do commit by commit.

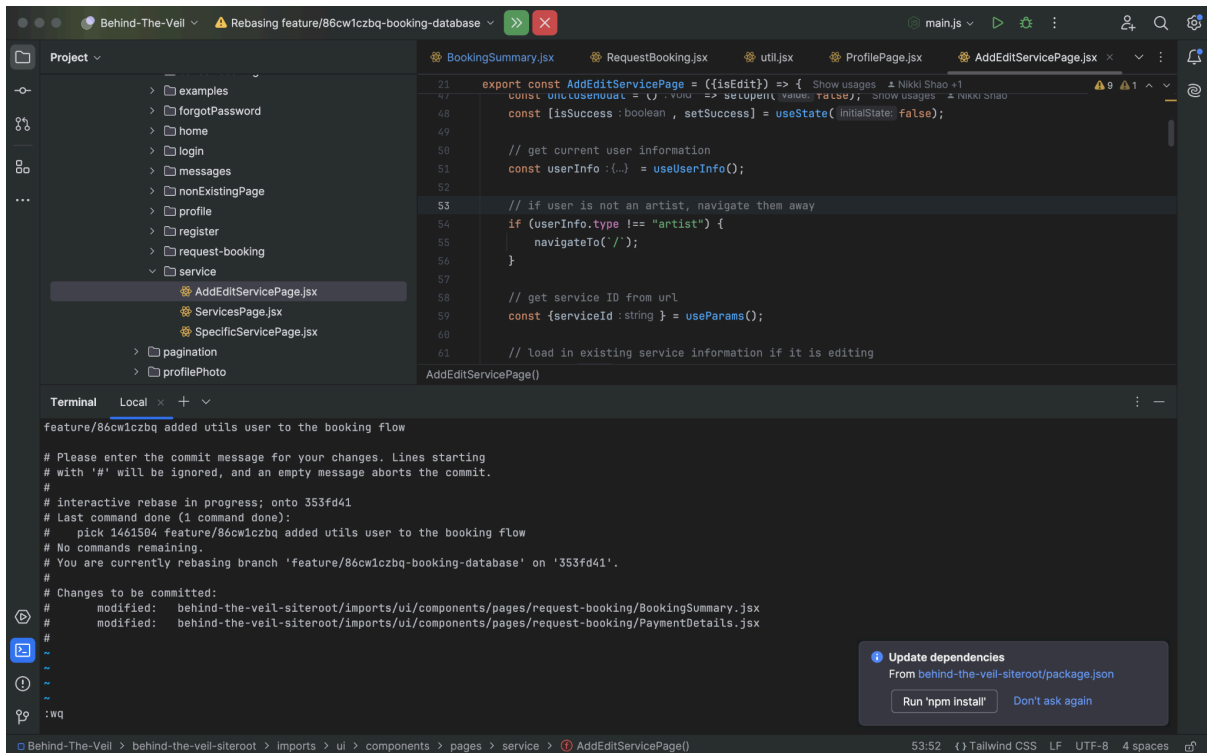
Note: Git will probably throw more conflicts, so repeat all of step three for each rebasing cycle.

Example:



```
nethbotheju@Neths-MBP behind-the-veil-siteroot % git checkout feature/86cwlczbq-booking-database
Switched to branch 'feature/86cwlczbq-booking-database'
nethbotheju@Neths-MBP behind-the-veil-siteroot % git rebase develop
Auto-merging behind-the-veil-siteroot/imports/ui/components/pages/request-booking/BookingSummary.jsx
Auto-merging behind-the-veil-siteroot/imports/ui/components/pages/service/AddEditServicePage.jsx
CONFLICT (content): Merge conflict in behind-the-veil-siteroot/imports/ui/components/pages/service/AddEditServicePage.jsx
error: could not apply 1461504... feature/86cwlczbq added utils user to the booking flow

hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
Could not apply 1461504... feature/86cwlczbq added utils user to the booking flow
nethbotheju@Neths-MBP behind-the-veil-siteroot % git add .
nethbotheju@Neths-MBP behind-the-veil-siteroot % git rebase --continue
```



At some point during the rebase cycle, you'll hit this screen, this is called the VIM it works a bit funky than normal text editors. To escape the VIM you can do either

:q

or

:wq

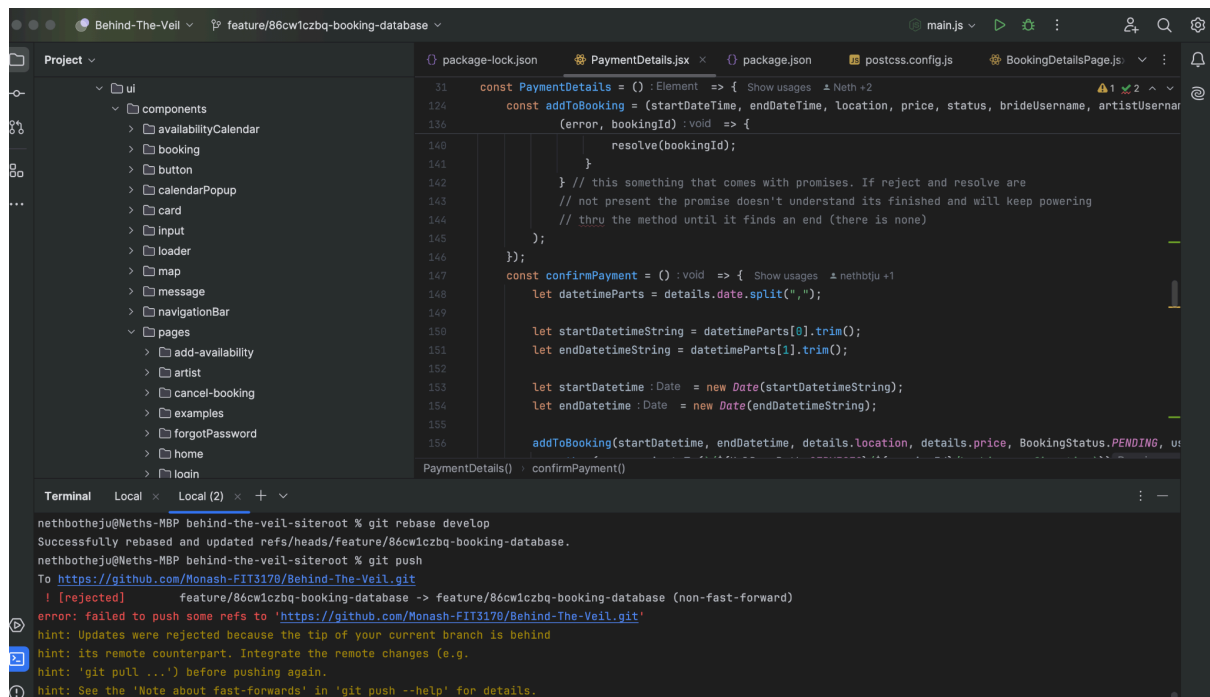
This means you want to write and quit the VIM

Step 4: Push your changes

Neth recommends: Once you complete your rebase successfully make sure to go through the app and see if your branch works as intended.

Now this is the most important step in this whole process. Once you go to push your changes you'll notice that git won't let you push telling you that your branch is behind and to do a git pull.

Don't listen to that dumb mf.



Do a git force push

```
git push -f
```

This tells git that you don't care what's on your remote branch, this is the correct version and to overwrite it. It does sound scary but remember we can revert changes just as easily as you can make them!

THATS IT! SIMPLE RIGHT?

Now if you mess it up, I will find you.