

Design Wits - Version Control with Git

Branching Strategies Used

Feature Branching Strategy

The feature branching strategy is a method used by developers to create isolated environments from the main codebase. They ensure that every developer works on their copies of the previously committed codebase by introducing their code to new branches from the master codebase.

This approach allowed us to experiment, develop, and test with great freedom as we were not influencing the main branch. Directly coordinated branch development helped to minimise chances for bugs with code. It helps several sufficiently skilled developers to work on an isolated module without interfering with each other which could be considered a good manner in terms of software deliveries.

Hot-Fix Branching Strategy

As soon as the error is discovered in production, a brand-new branch, which is usually named a "hot-fix branch," is formed. This new branch typically branches off the as it is the production code that is already running in the system. The benefits of using this branching strategy were that:

- We had minimal disruption as urgent issues were quickly addressed by the team without causing any issues with our feature development.
- Merging the fix back into both the main and development branches acts as a block, and the same bug cannot go ahead and cause them again in the next releases.
- It ensures production's stability because only the most important ones are merged to the main branch and are deployed immediately.
- Developers, thus, can work on the main part of the problem only and as a result, the fix will be an extensive and verified one before the final stage.

hotfix-readme	yesterday	22 0	#28	...
integration	yesterday	8 41		...
revert-27-government-cofresponsibility	yesterday	8 36		...
government-cofresponsibility	yesterday	8 20	#27	...
utilities-transport	2 days ago	8 48	#26	...
City-/-CityInterfaces	2 days ago	23 24		...
Utilities-Transport	2 days ago	26 6		...
Buildings-feature-2	2 days ago	8 37	#25	...
Buildings-feature	2 days ago	26 33		...
government-sectors-observer	3 days ago	19 32	#23	...
government-policies-command	3 days ago	19 24	#22	...
Resources	4 days ago	19 1	#21	...
Taxation-system	5 days ago	26 27	#18	...
Population-Citizens	last week	24 19		...
init-readme-skeleton	2 weeks ago	27 0	#1	...

Pull Requests

Label issues and pull requests for new contributors

Now, GitHub will help potential first-time contributors [discover issues](#) labeled with [good first issue](#)

Dismiss

Filters

Q is:pr is:closed

Labels 9

Milestones 0

New pull request

Clear current search query, filters, and sorts

3 Open

13 Closed

Author

Label

Projects

Milestones

Reviews

Assignee

Sort

Adding logo to README

#29 by rsnevan was merged yesterday

Adding logo to README

#28 by rsnevan was merged yesterday

Government - Chain Of Responsibility

#27 by rsnevan was merged yesterday

Merging Buildings Component

#25 by un4thi was merged 2 days ago • Approved

Merge from Taxation-system into government-sectors-observer

#24 by ms-thabane was closed 9 hours ago • Approved

Integrating Government Sectors (Observer)

#23 by rsnevan was merged 3 days ago • Approved

Integrating Government Policies (Command Pattern)

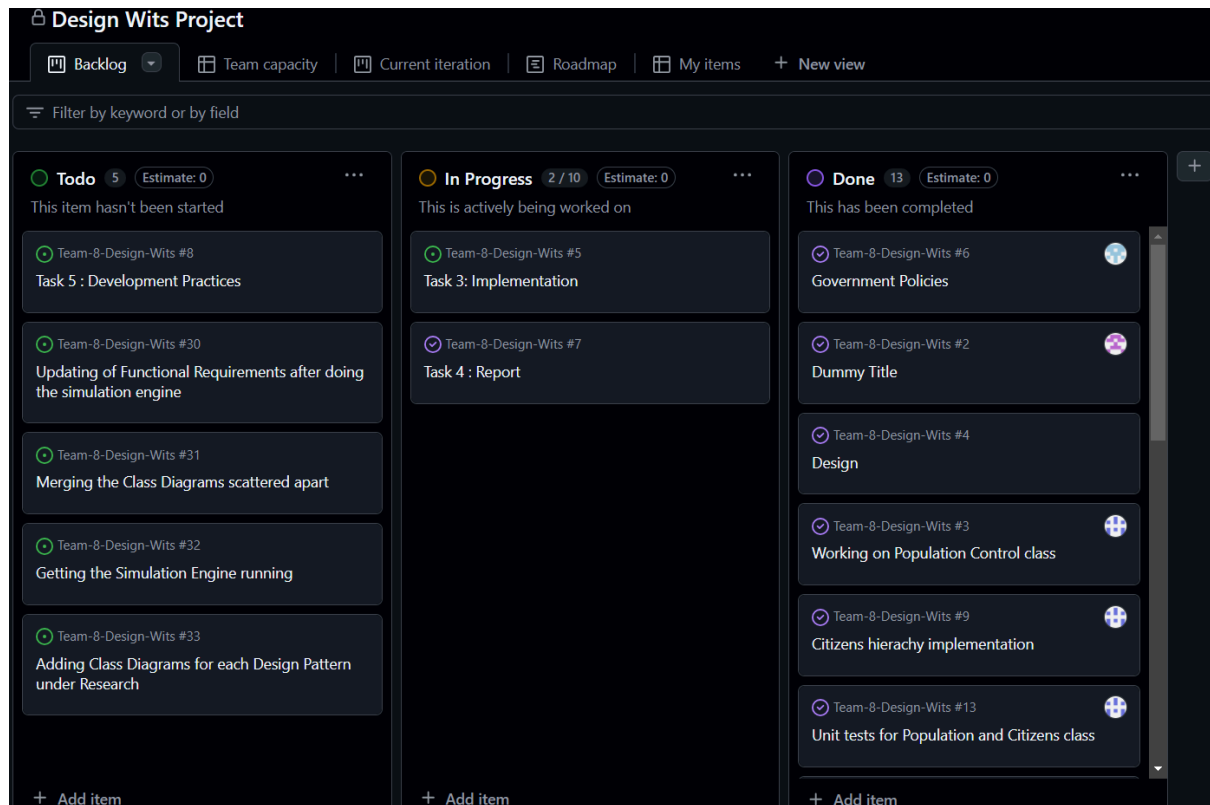
#22 by rsnevan was merged 3 days ago • Approved

Merge taxation system with observer

#19 by ms-thabane was closed 5 days ago

Using Pull requests provided us with a structured and collaborative way to review, discuss, and merge code changes into our shared codebase. With a pull request, developers are able to have in-depth conversations on specific code changes, request feedback, or divulge the intent of the revisions. This is a kind of constructive forum and a place for the team to work out the issues that came up, which is even more vital for virtual teams.

Projects



Using GitHub Projects gave our team a chance to plan and oversee tasks directly in connection with our code. GitHub Projects allowed us to easily plan, track, and prioritise our and ensure that we know who is working on what . The team was able to introduce issues, and appoint tasks, set deadlines, and monitor the performance of which the team as a whole is up-to-date and in alignment as well.

Commits, Pull Requests and Issues

October 4, 2024 – November 4, 2024

Period: 1 month ▾

Overview

13 Active pull requests

18 Active issues

10

Merged pull requests

3

Open pull requests

12

Closed issues

6

New issues

Excluding merges, **9 authors** have pushed **25 commits** to main and **435 commits** to all branches. On main, **0 files** have changed and there have been **0 additions** and **0 deletions**.

A horizontal bar chart showing the number of commits pushed by 9 different authors. The y-axis represents the count of commits, ranging from 0 to 150. The x-axis lists the authors with their profile icons. The bars are colored in a gradient of orange and brown. The first author has the highest count, exceeding 150.

Author	Commits
Author 1	150
Author 2	100
Author 3	60
Author 4	50
Author 5	30
Author 6	20
Author 7	10
Author 8	5
Author 9	5

10 Pull requests merged by 3 people