



Navu Code Review Process

Repositories

There are two key repositories for Navu code, one for the server code and one for the client code. There are several additional repositories containing miscellaneous common or supporting code (e.g., navu-apis, navu-db, etc.)

Branching Strategy

Each repository follows a structured branching model:

- **Main Branch:** Ongoing development; close to production quality but allows for continued feature work.
- **Production Branch:** Code deployed to production environments.

Standard Release Workflow

Server-Side Workflow

- Development occurs on the **main** branch.
- When ready for a new release:
 - A **pull request (PR)** is created to promote the latest **main** code to **production**.
- After production deployment:
 - **Version numbers** are bumped on **main** to begin the next development cycle.

Client-Side Workflow

- Developers create a **release branch** (e.g., `release/3.5`) from **main**.
- When the release branch is stable:
 - A **pull request** is created to merge the release branch into **main**.
 - After merging into **main**, a separate **pull request** is created to promote to **production**.

In both workflows, **main** stays relatively close to production quality but allows for ongoing development.

Production Hotfix Workflow

Handling Critical Production Issues

- **Post-Production Branches:** When an issue is found in production, a **post-production** branch (e.g., `post-prod-bugfix`) is created off the **production** branch.
- Quick fixes are made in the post-production branch.
- The build from the post-production branch can be **temporarily deployed** to production **before review only if**:
 - Authorized individuals determine that immediate deployment is necessary and justified by the risk.

Review After Temporary Deployment

- Even if a temporary fix is deployed, a **pull request** from the **post-production** branch to **production** is still required.
- After the pull request is reviewed and approved:
 - The **production branch** is updated.
 - Production servers are redeployed with the updated official code.

This ensures that even emergency fixes undergo eventual peer review and formal tracking.

Pull Request Requirements

- **All new code into the production branch** must use a **pull request reviewed by another team member**.
- This applies to:
 - New releases (main → production).
 - Hotfixes directly to production (via post-production branches).
- Temporary, unreviewed deployments are permitted only when authorized individuals approve it as necessary to mitigate urgent risks.

Summary

This process balances the need for **speed** in emergencies with the commitment to **code quality and peer review**. It enforces structure while allowing flexibility when rapid response is essential.

Appendix 1: Authorized Developers

The table below lists the individuals authorized to deploy unreviewed updates to production.

Name	Email
Kingston Duffie	kduffie@navu.co
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