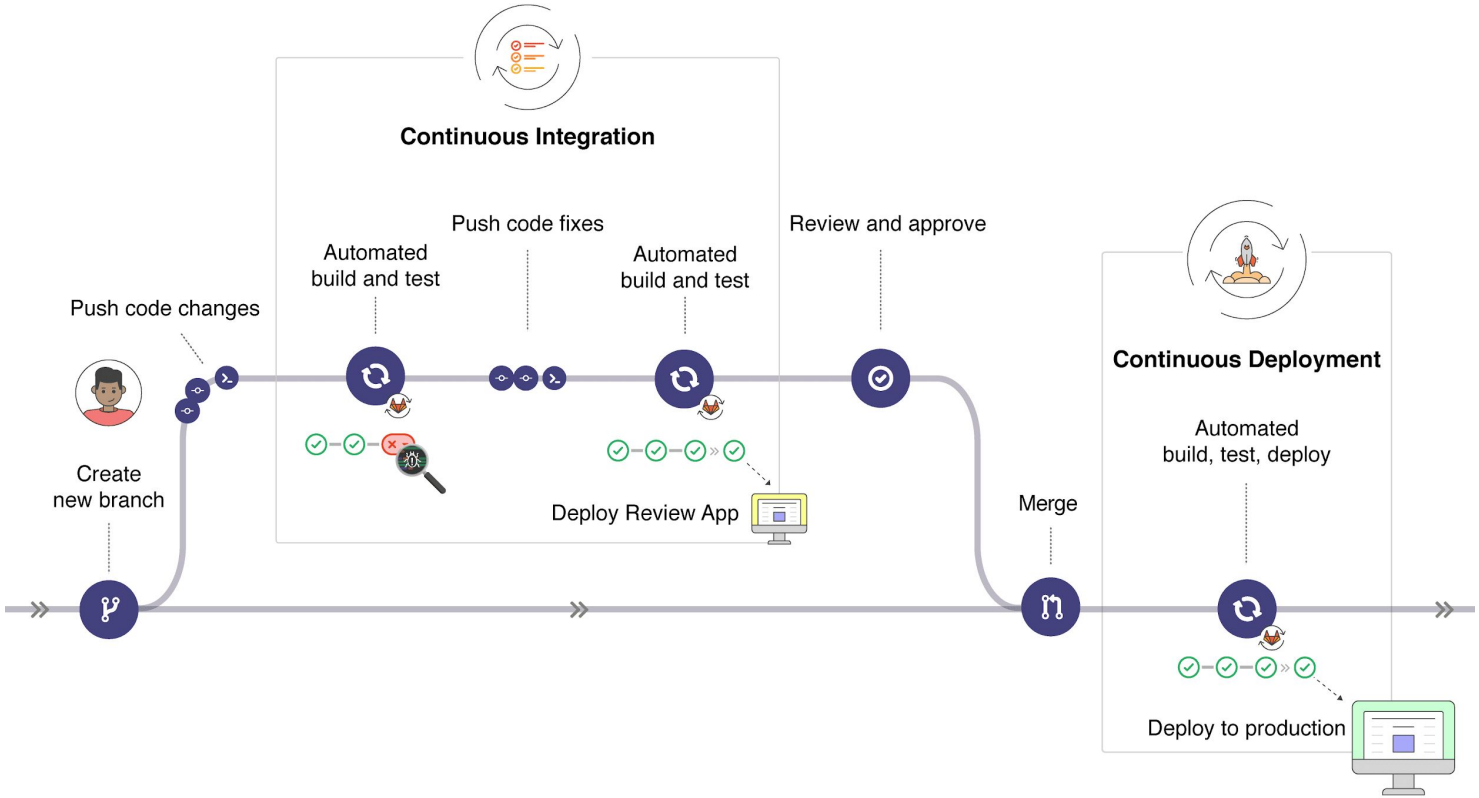
GitLab

GitLab Basics for Developers

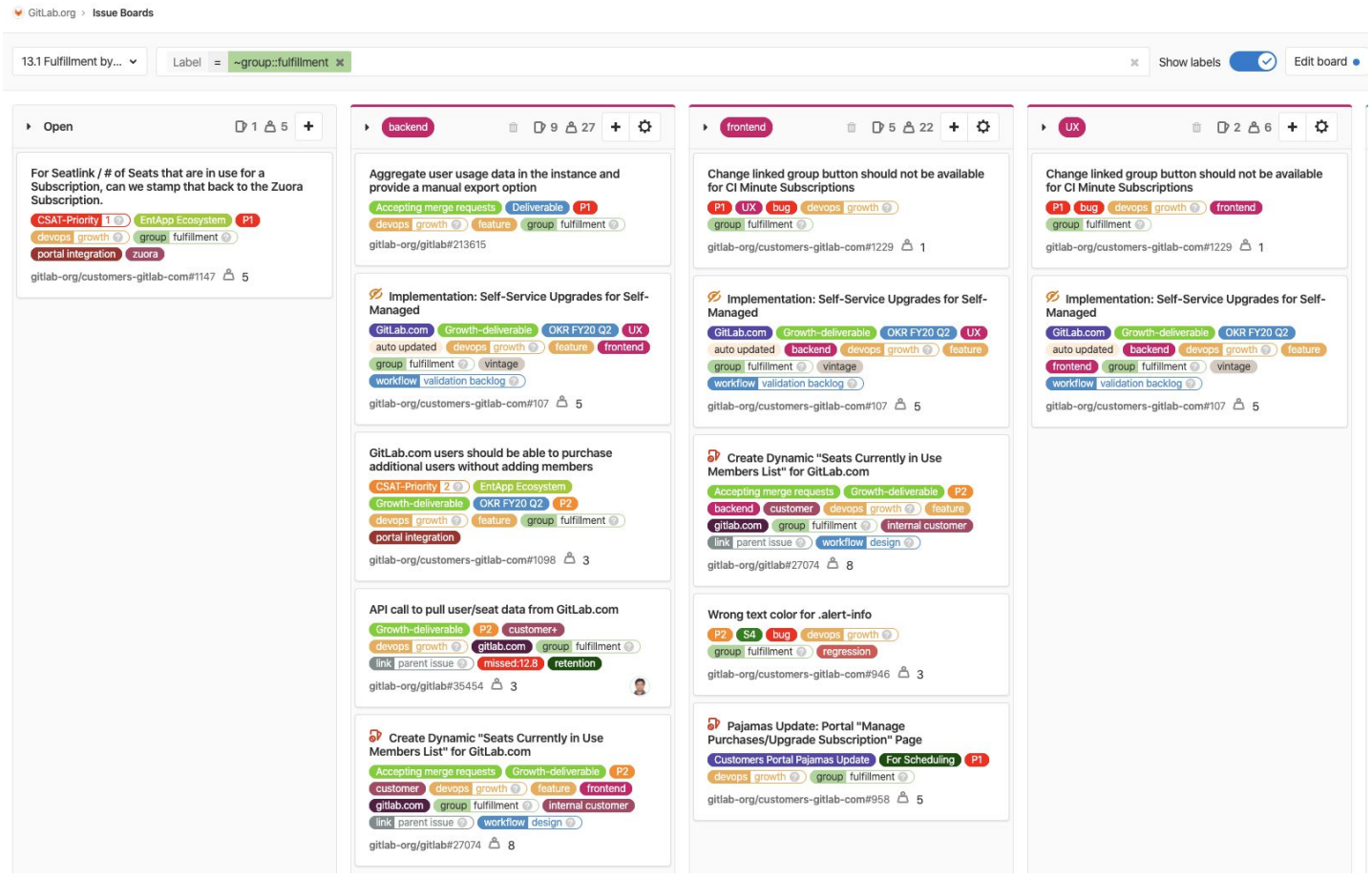
A Complete DevOps Platform Delivered as a Single Application

Single Conversation
Single Data Store
Single Permission Model
Single Interface
Governance & Security
Team Collaboration
Lifecycle Analytics

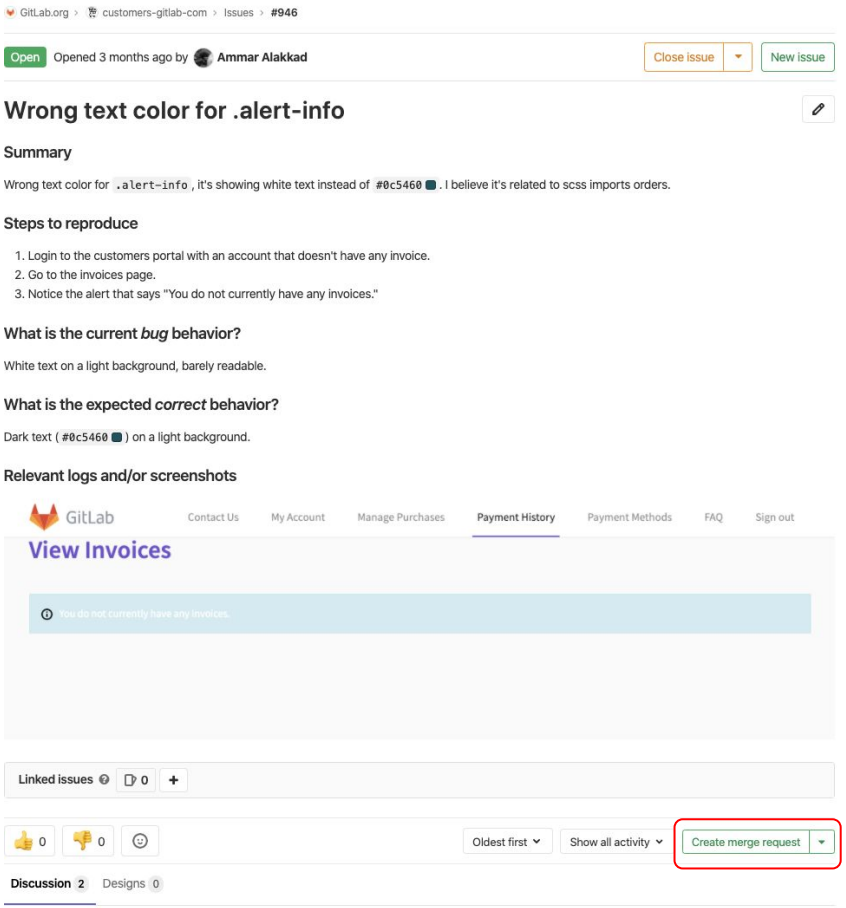
DevOps Best Practices Built In



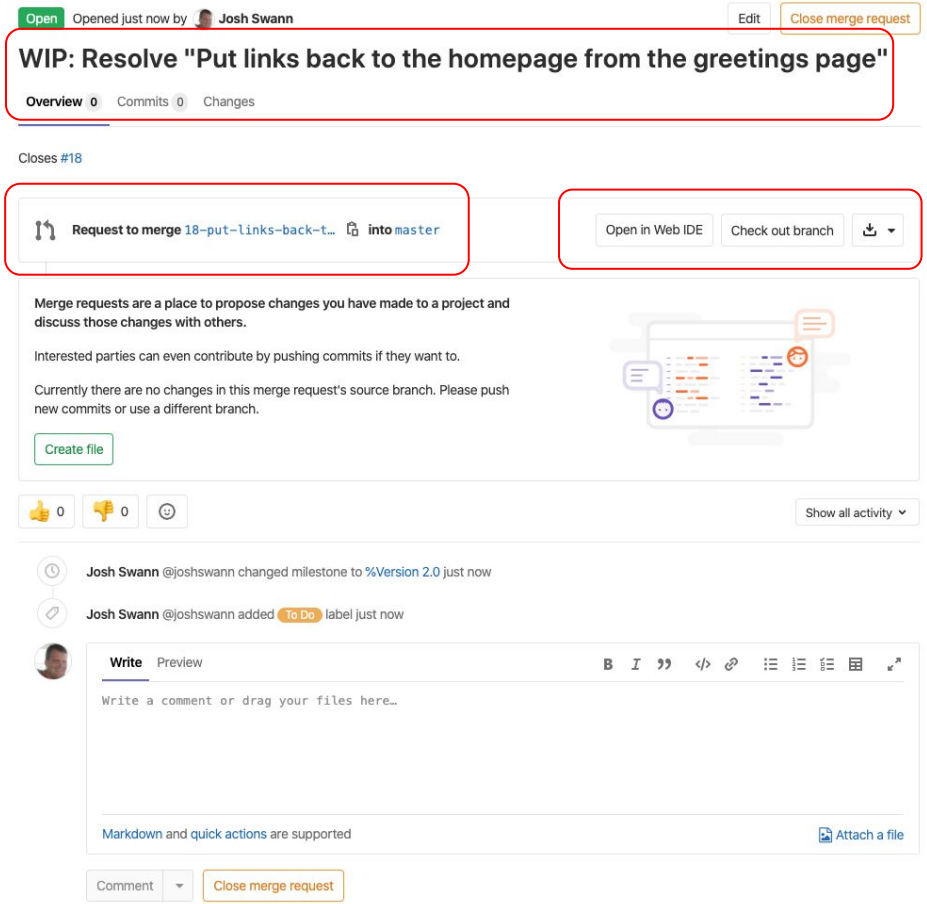
Where do I start? - Issue Board



Review Issue

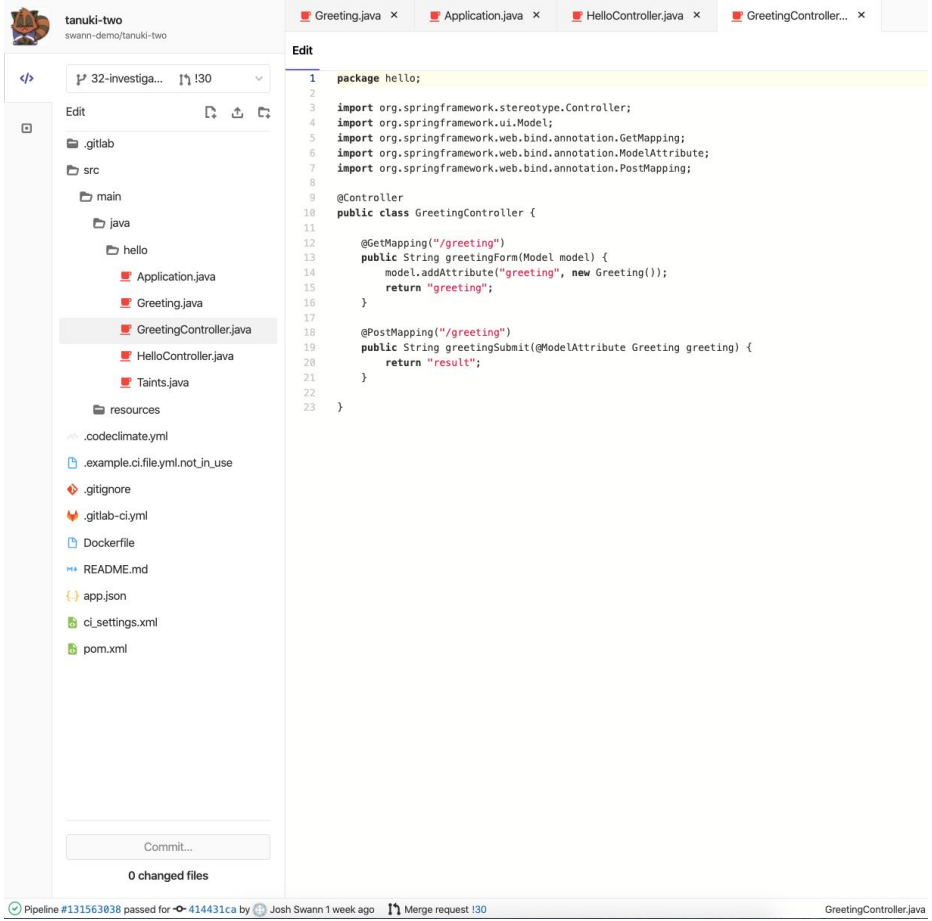


See Progress using Merge Requests



- Merge Request to Issue Traceability
- Web IDE or Check Out locally
- Branch Creation
- Record of changes and their impact to the branch

Built-in IDE - Code Changes



Check out, review, and merge locally

Step 1. Fetch and check out the branch for this merge request

```
git fetch origin
git checkout -b "32-investigate-vulnerability-hardcoded-constant-database-password" "origin
```

Step 2. Review the changes locally

Step 3. Merge the branch and fix any conflicts that come up

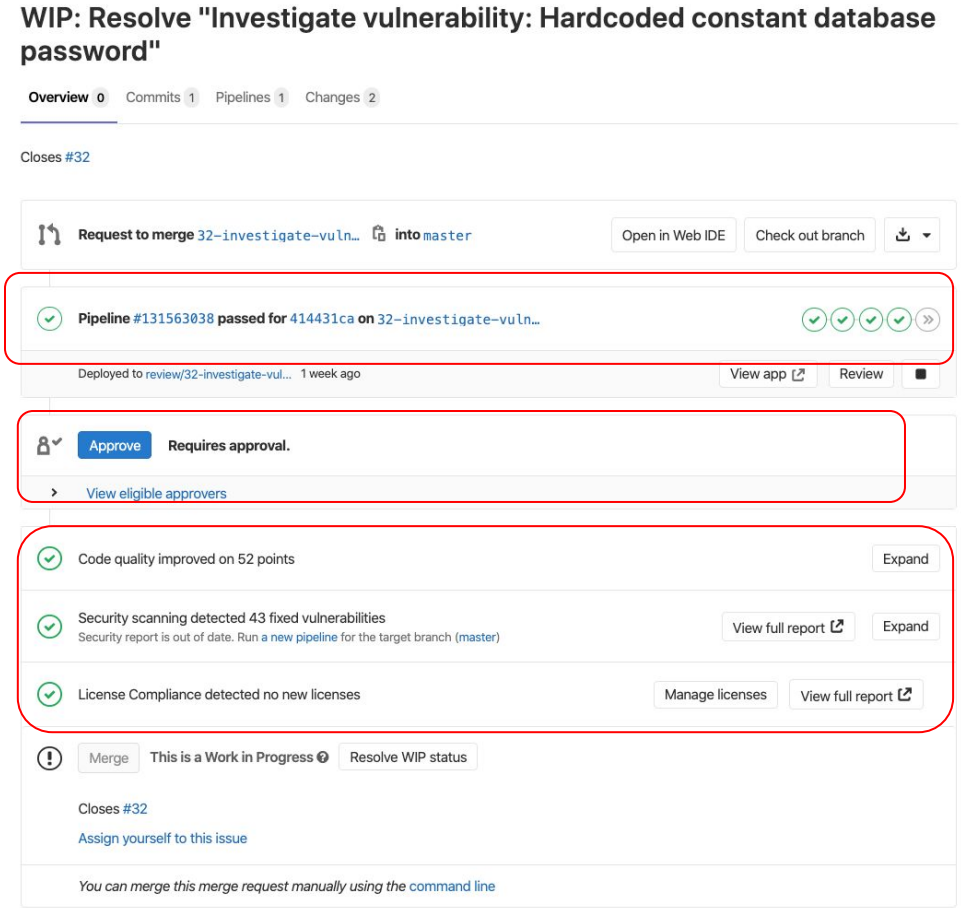
```
git fetch origin
git checkout "origin/master"
git merge --no-ff "32-investigate-vulnerability-hardcoded-constant-database-password"
```

Step 4. Push the result of the merge to GitLab

```
git push origin "master"
```

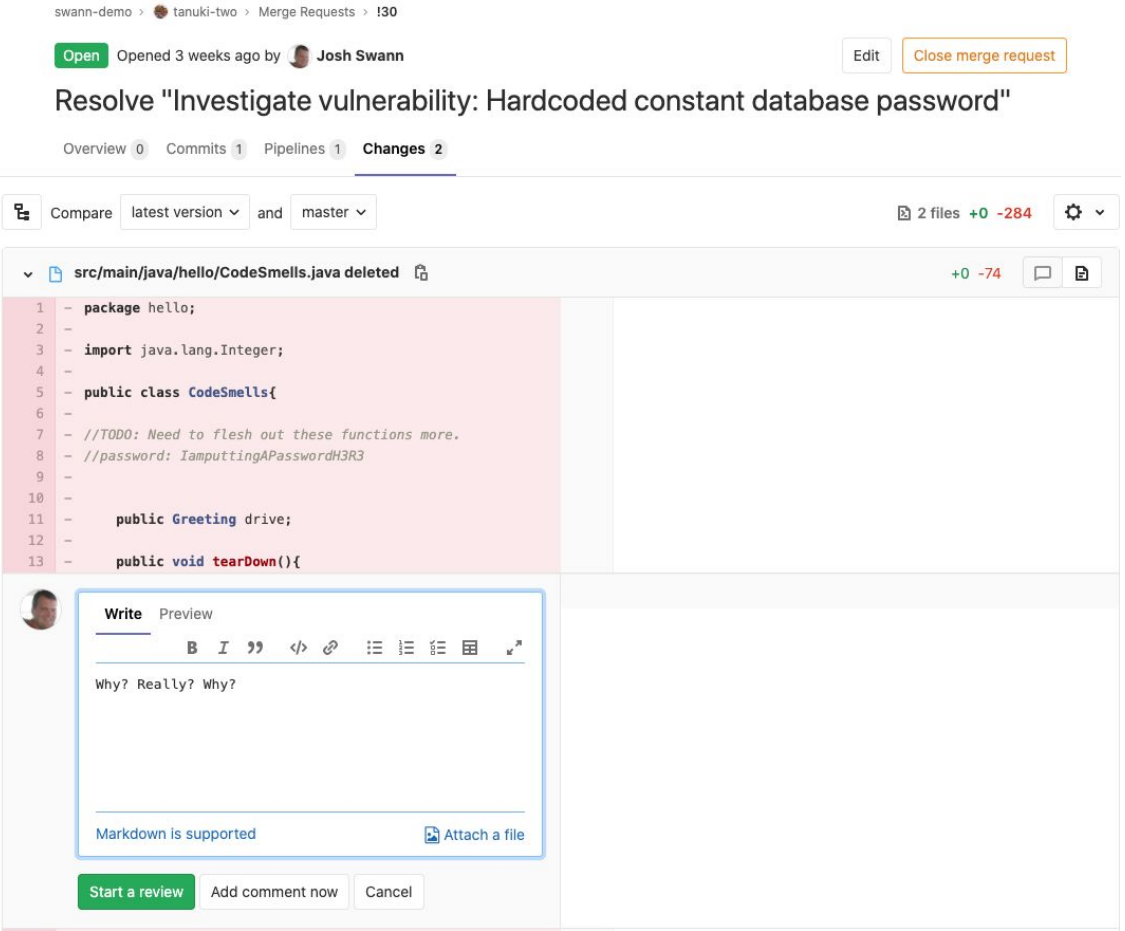
Tip: You can also checkout merge requests locally by following these guidelines.

Traceability

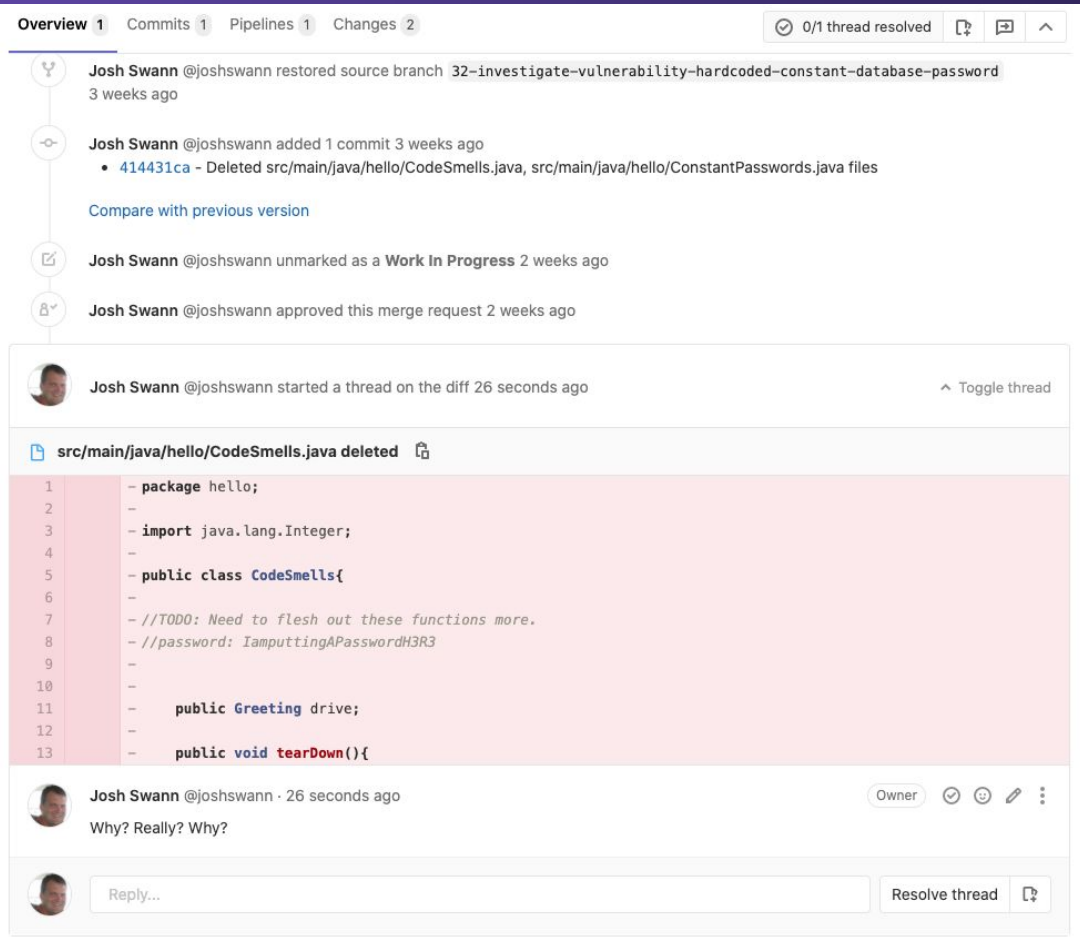


- CI/CD Pipeline Activity
- Approval Processes
- Scan Results
  - Code Quality
  - Security Scanning
  - Compliance
- Code Reviews
- And more!
  - Commit History
  - Comments
  - Reactions

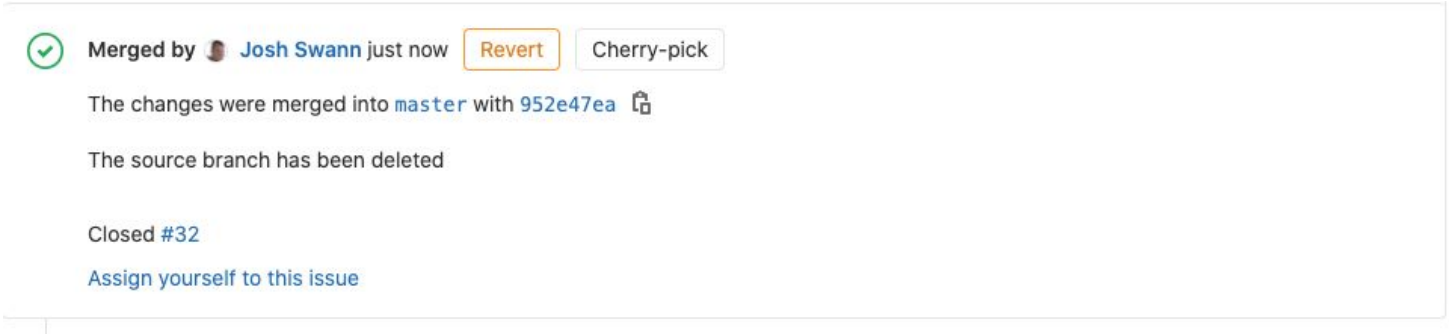
Code Review


swann-demo › tanuki-two › Merge Requests › !30
Open
Opened 3 weeks ago by Josh Swann
Edit
Close merge request
Resolve "Investigate vulnerability: Hardcoded constant database password"
Overview 0
Commits 1
Pipelines 1
Changes 2
Compare
latest version
and
master
2 files +0 -284
src/main/java/hello/CodeSmells.java deleted
+0 -74
1 - package hello;
2 -
3 - import java.lang.Integer;
4 -
5 - public class CodeSmells{
6 -
7 - //TODO: Need to flesh out these functions more.
8 - //password: IamputtingAPasswordH3R3
9 -
10 -
11 - public Greeting drive;
12 -
13 - public void tearDown(){
Write
Preview
Why? Really? Why?
Markdown is supported
Attach a file
Start a review
Add comment now
Cancel

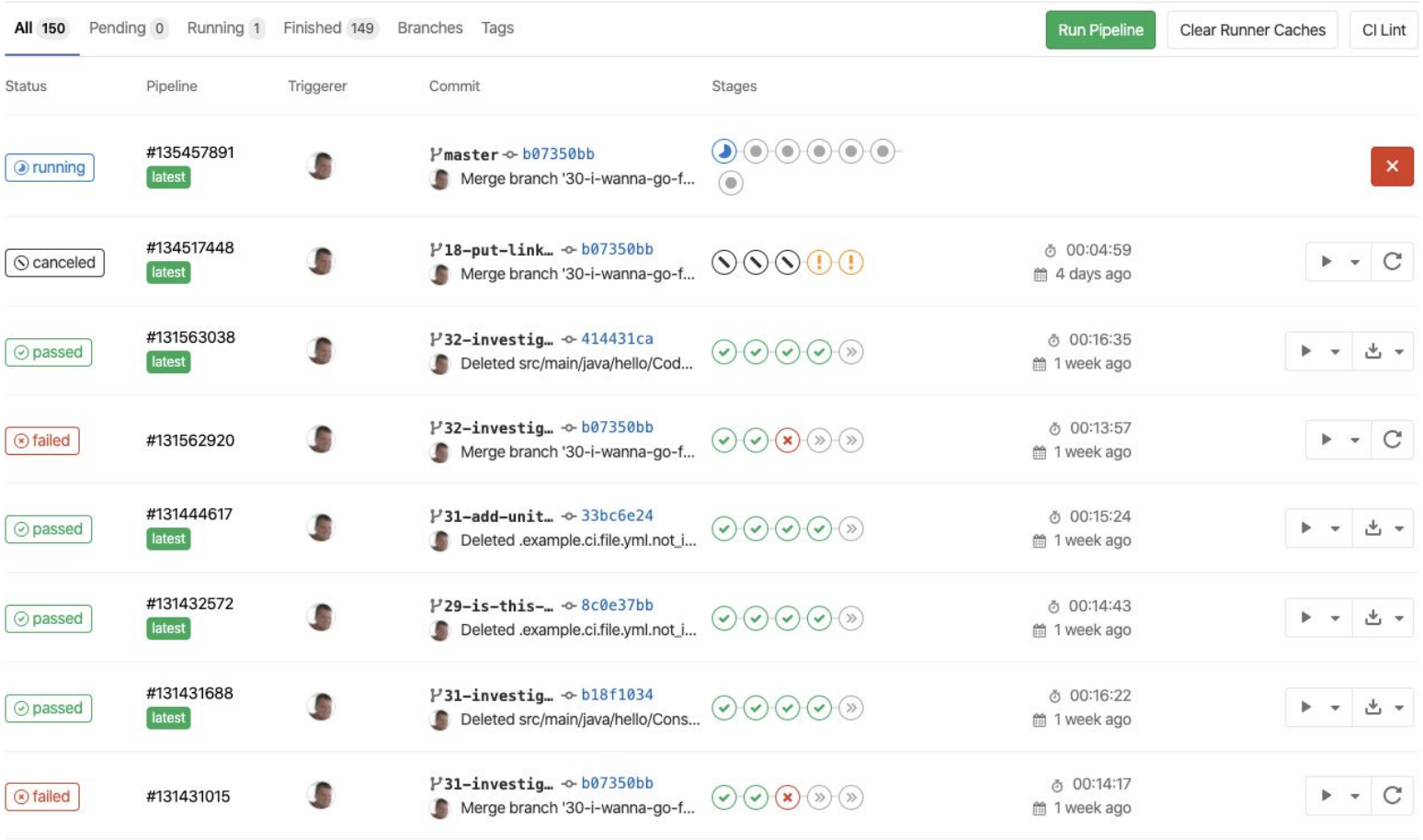
Code Review


Overview 1
Commits 1
Pipelines 1
Changes 2
0/1 thread resolved
Josh Swann @joshswann restored source branch 32-investigate-vulnerability-hardcoded-constant-database-password
3 weeks ago
Josh Swann @joshswann added 1 commit 3 weeks ago
414431ca - Deleted src/main/java/hello/CodeSmells.java, src/main/java/hello/ConstantPasswords.java files
Compare with previous version
Josh Swann @joshswann unmarked as a Work In Progress 2 weeks ago
Josh Swann @joshswann approved this merge request 2 weeks ago
Josh Swann @joshswann started a thread on the diff 26 seconds ago
Toggle thread
src/main/java/hello/CodeSmells.java deleted
1 - package hello;
2 -
3 - import java.lang.Integer;
4 -
5 - public class CodeSmells{
6 -
7 - //TODO: Need to flesh out these functions more.
8 - //password: IamputtingAPasswordH3R3
9 -
10 -
11 - public Greeting drive;
12 -
13 - public void tearDown(){
Josh Swann @joshswann · 26 seconds ago
Owner
Why? Really? Why?
Reply...
Resolve thread

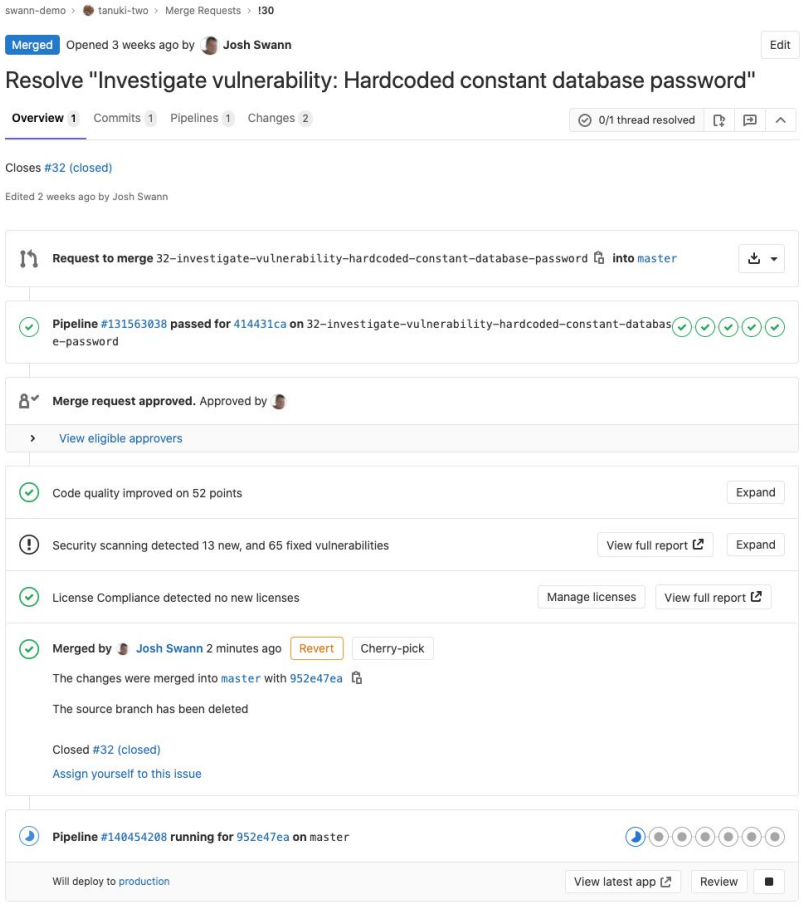
Easy Merging

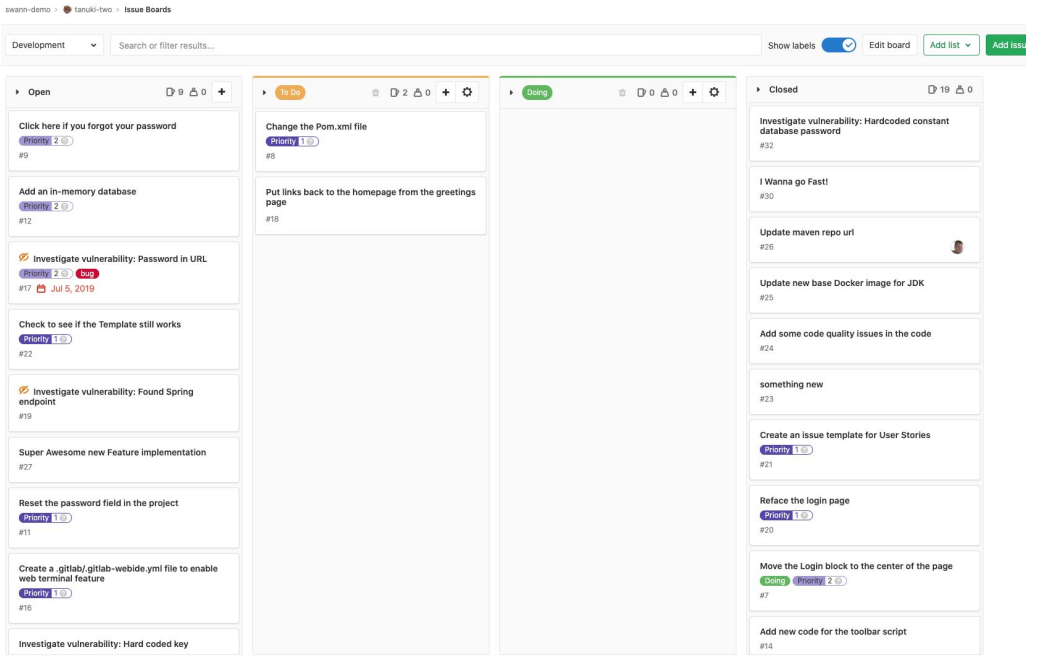


CI/CD Pipelines



Resolved MR, Closed Issue





GitLab

Lab

Create Stage

Gitlab Basics - Lab 2

Lab Assignment

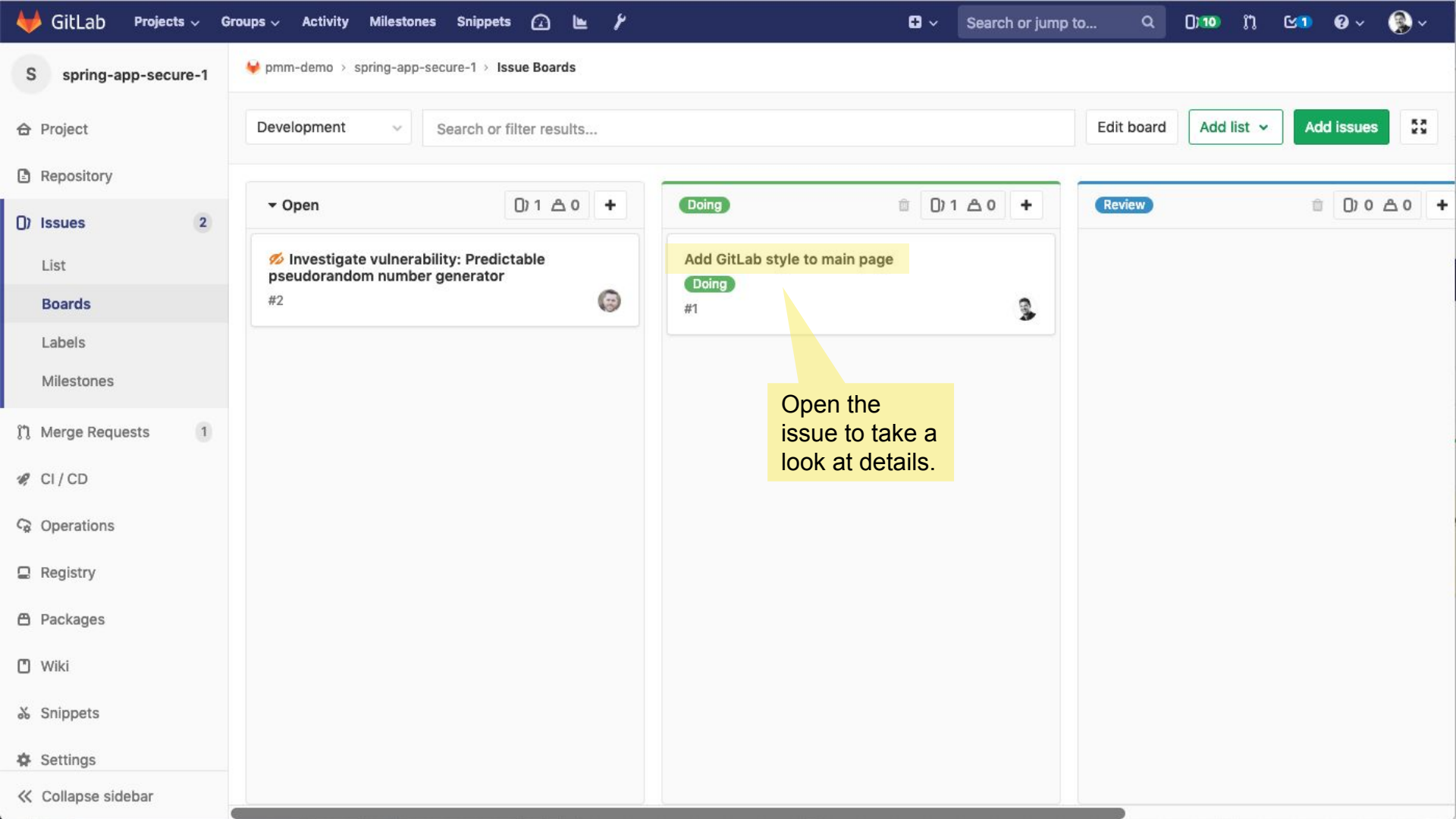
Scenario: Based off an issue, make changes to the code base and commit

Key Tasks to Complete

1. Review Issue, Create if it doesn't exist
2. Create a MR
3. Select **Open in Web IDE**
4. Modify **README.md** file
5. Commit
    a. Add Commit Message
    b. Click **Commit**
6. Return to Merge Request
7. Click **Resolve WIP Status**
8. Click **Merge**
9. View Master branch, verify Changes
10. Verify Issue is **Closed**

GitLab

Everyone can contribute


GitLab
Projects
Groups
Activity
Milestones
Snippets
Search or jump to...
spring-app-secure-1
Project
Repository
Issues 2
List
Boards
Labels
Milestones
Merge Requests 1
CI / CD
Operations
Registry
Packages
Wiki
Snippets
Settings
Collapse sidebar
pmm-demo › spring-app-secure-1 › Issue Boards
Development
Search or filter results...
Edit board
Add list
Add issues
Open 1 0
Investigate vulnerability: Predictable pseudorandom number generator
#2
Doing 1 0
Add GitLab style to main page
Doing
#1
Review 0 0
Open the issue to take a look at details.

S spring-app-secure-1

Project
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List
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Settings
Collapse sidebar

Open Opened 1 week ago by Dan 0 of 3 tasks completed

Close issue New issue

Add GitLab style to main page

Our main page is showing the default data.

It should instead reflect the personality of GitLab.

Scroll down to see more.

- [ ] GitLab purple background
- [ ] Proper main message
- [ ] GitLab logo

Edited 1 week ago by Dan

Todo Add todo

Assignee Edit
Dan
@Gordon

Epic
None

Milestone Edit
None

Time tracking
No estimate or time spent

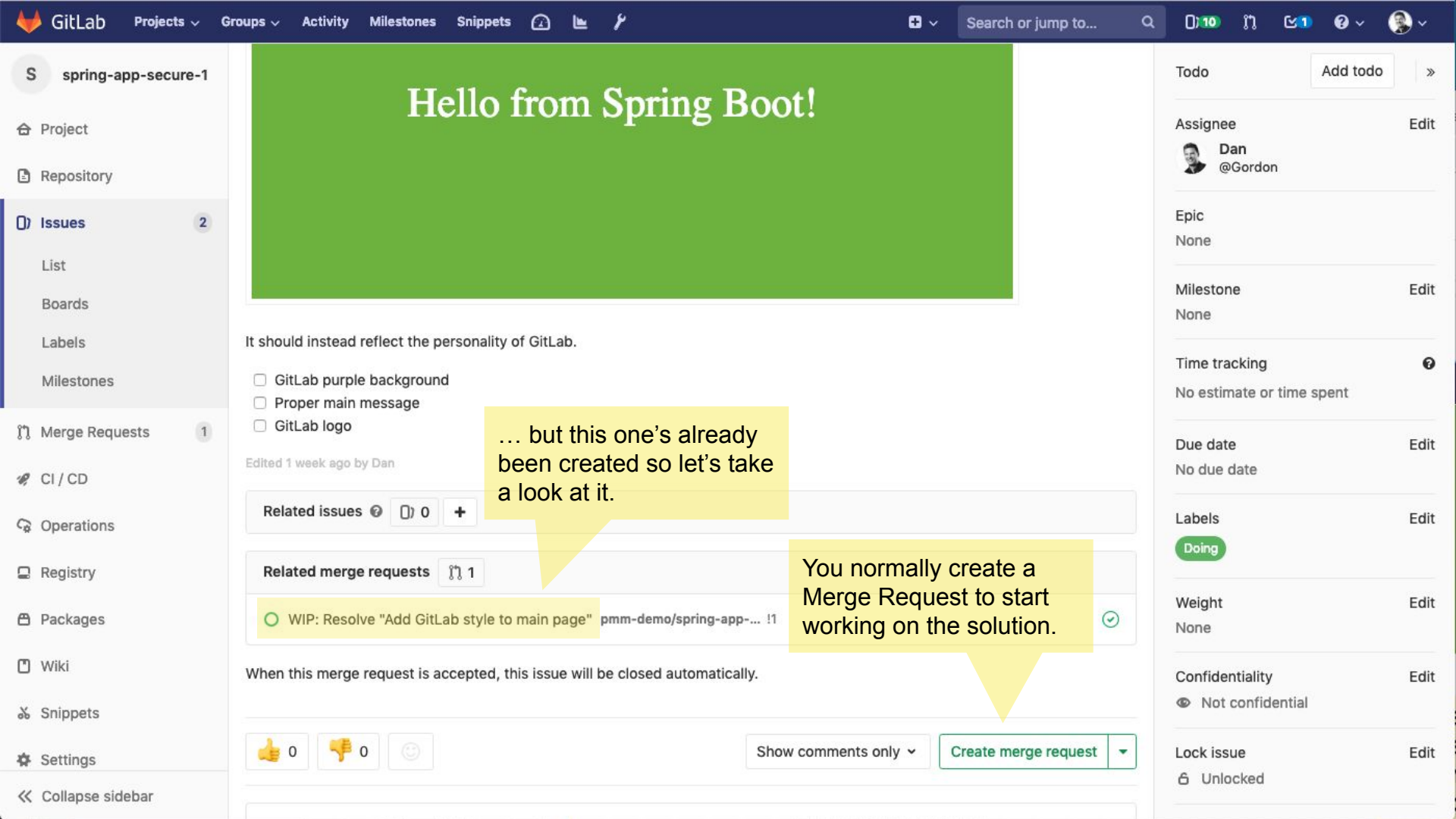
Due date Edit
No due date

Labels Edit
Doing

Weight Edit
None

Confidentiality Edit
Not confidential

Lock issue Edit
Unlocked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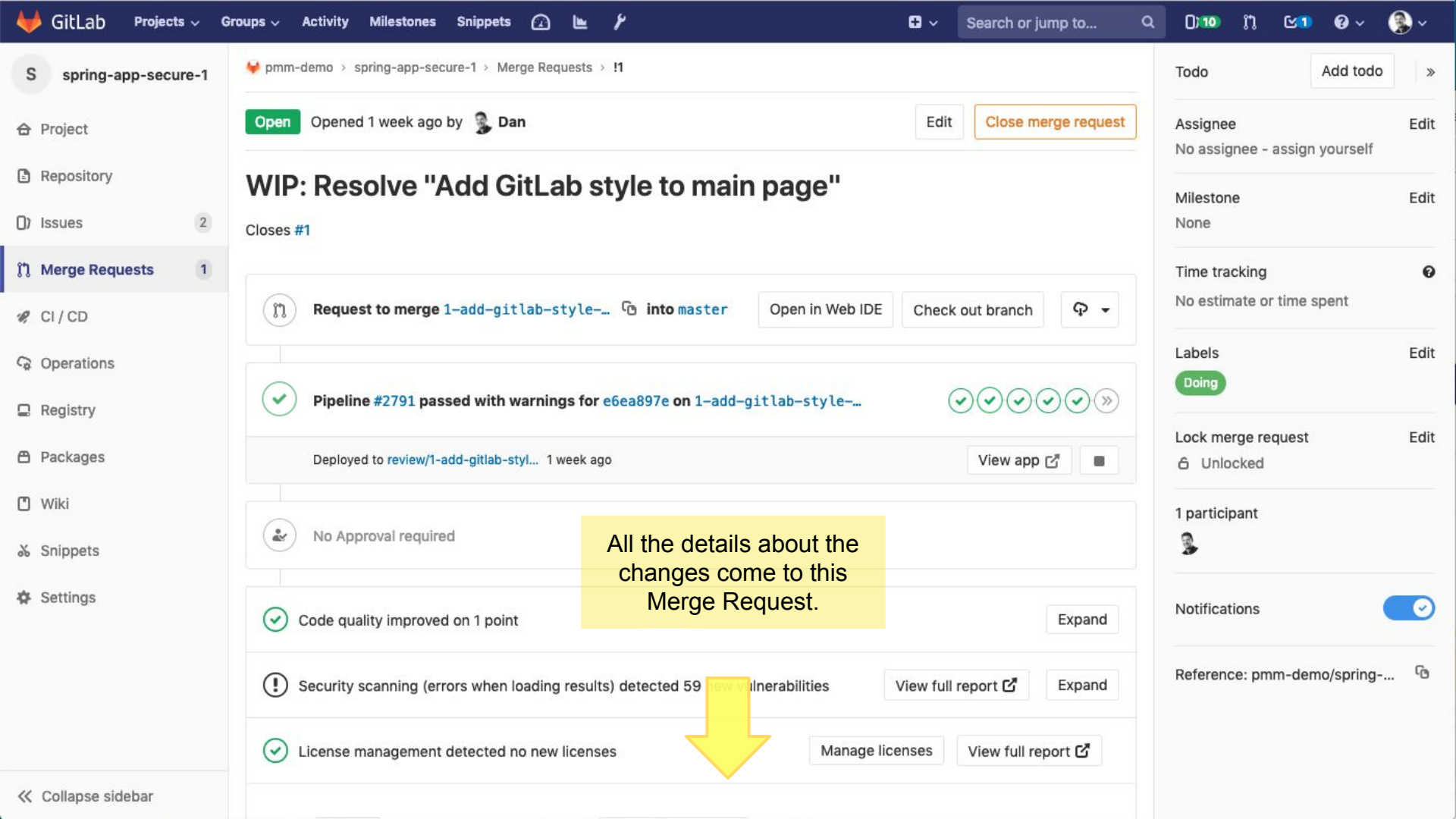
Hello from Spring Boot!
It should instead reflect the personality of GitLab.
GitLab purple background
Proper main message
GitLab logo
Edited 1 week ago by Dan
Related issues 0
Related merge requests 1
WIP: Resolve "Add GitLab style to main page" pmm-demo/spring-app-... !1
When this merge request is accepted, this issue will be closed automatically.
0
0
Show comments only
Create merge request
… but this one's already been created so let's take a look at it.
You normally create a Merge Request to start working on the solution.
Todo
Add todo
Assignee
Edit
Dan
@Gordon
Epic
None
Milestone
Edit
None
Time tracking
No estimate or time spent
Due date
Edit
No due date
Labels
Edit
Doing
Weight
Edit
None
Confidentiality
Edit
Not confidential
Lock issue
Edit
Unlocked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Collapse sidebar
pmm-demo › spring-app-secure-1 › Merge Requests › !1
Open
Opened 1 week ago by Dan
Edit
Close merge request
WIP: Resolve "Add GitLab style to main page"
Closes #1
Request to merge 1-add-gitlab-style-... into master
Open in Web IDE
Check out branch
Pipeline #2791 passed with warnings for e6ea897e on 1-add-gitlab-style-...
Deployed to review/1-add-gitlab-styl... 1 week ago
View app
No Approval required
All the details about the changes come to this Merge Request.
Code quality improved on 1 point
Expand
Security scanning (errors when loading results) detected 59 new vulnerabilities
View full report
Expand
License management detected no new licenses
Manage licenses
View full report
Todo
Add todo
Assignee
Edit
No assignee - assign yourself
Milestone
Edit
None
Time tracking
No estimate or time spent
Labels
Edit
Doing
Lock merge request
Edit
Unlocked
1 participant
Notifications
Reference: pmm-demo/spring-...

S spring-app-secure-1
Project
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Merge Requests 1
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Collapse sidebar

License management detected no new licenses Manage licenses View full report

Merge This is a Work in Progress Resolve WIP status

Closes #1

You can merge this merge request manually using the command line

0 0

You can see a diff of the changes.

Discussion 0 Commits 3 Pipelines 3 Changes 1 Show comments only

Write Preview

Write a comment or drag your files here…

Markdown and quick actions are supported Attach a file

Comment Close merge request

Todo Add todo

Assignee Edit
No assignee - assign yourself

Milestone Edit
None

Time tracking
No estimate or time spent

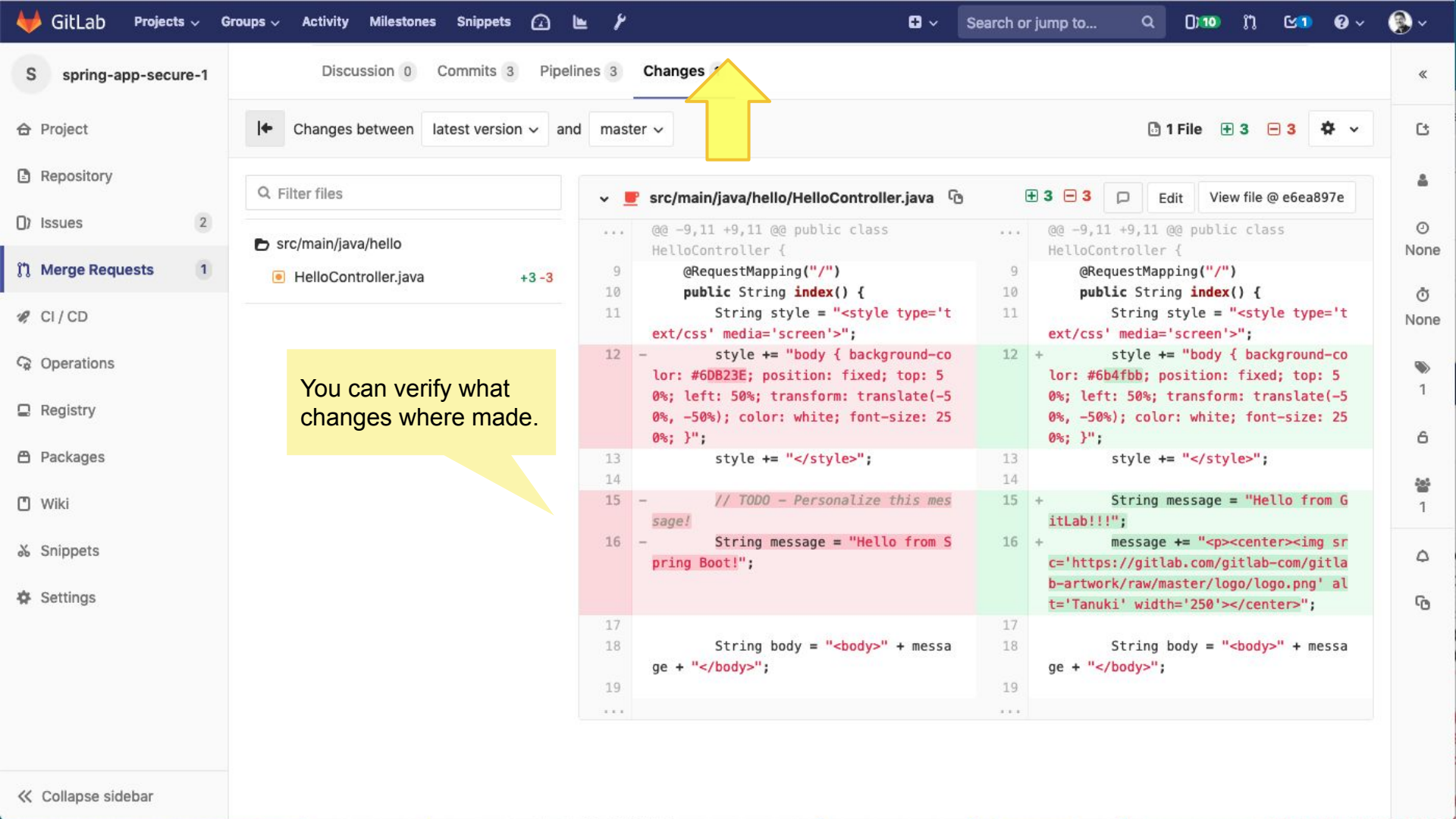
Labels Edit
Doing

Lock merge request Edit
Unlocked

1 participant

Notifications

Reference: pmm-demo/spring-...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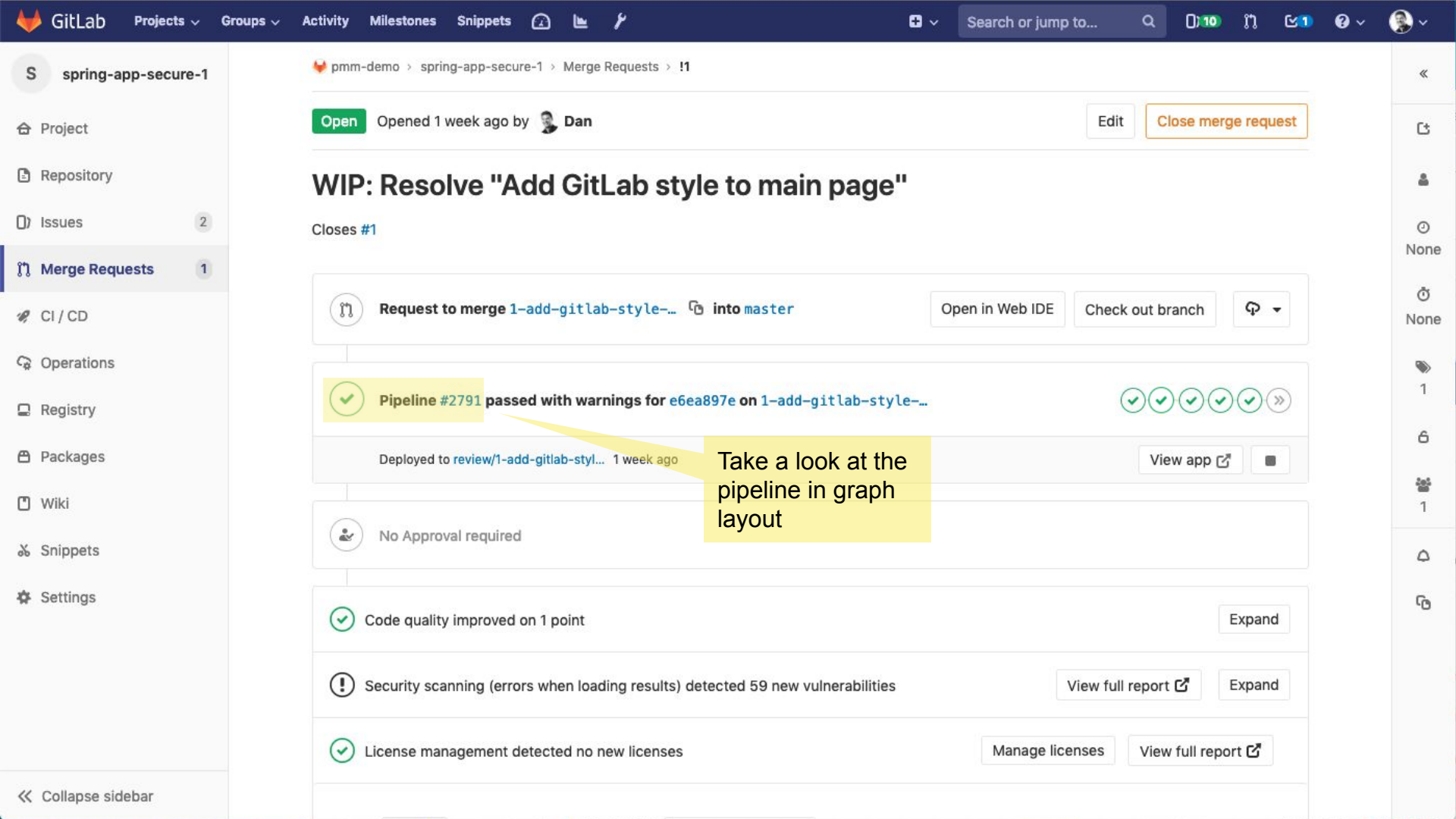
Settings
Collapse sidebar
Discussion 0
Commits 3
Pipelines 3
Changes
Changes between latest version and master
1 File +3 -3
Filter files
src/main/java/hello
HelloController.java +3 -3
src/main/java/hello/HelloController.java
+3 -3
Edit
View file @ e6ea897e
@@ -9,11 +9,11 @@ public class HelloController {
@RequestMapping("/")
public String index() {
String style = "<style type='text/css' media='screen'>";
style += "body { background-color: #6DB23E; position: fixed; top: 50%; left: 50%; transform: translate(-50%, -50%); color: white; font-size: 250%; }";
style += "</style>";
// TODO - Personalize this message!
String message = "Hello from Spring Boot!";
String body = "<body>" + message + "</body>";
@@ -9,11 +9,11 @@ public class HelloController {
@RequestMapping("/")
public String index() {
String style = "<style type='text/css' media='screen'>";
style += "body { background-color: #6b4fbb; position: fixed; top: 50%; left: 50%; transform: translate(-50%, -50%); color: white; font-size: 250%; }";
style += "</style>";
String message = "Hello from GitLab!!!";
message += "<p> <img src='https://gitlab.com/gitlab-com/gitlab-artwork/raw/master/logo/logo.png' alt='Tanuki' width='250'> ";
String body = "<body>" + message + "</body>";
You can verify what changes where made.
None
None
1
1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Manage licenses
View full report
None
None
1
1