GitHub Repository Configuration Guide

COMPLETED: Repository Sync

- Status: Successfully pushed local changes to GitHub
- Default Branch: safe-improvements
- Last Push: 2025-06-11T21:37:06Z
- Branches Synced: All local branches are now synchronized with remote

REQUIRED: Repository Settings Configuration

1. Branch Protection Rules

Configure protection for the safe-improvements branch:

```
# Using GitHub CLI (requires authentication)
gh api repos/romanchaa997/Audityzer/branches/safe-improvements/protection \
    --method PUT \
    --field required_status_checks='{"strict":true, "contexts":["ci"]}' \
    --field enforce_admins=true \
    --field required_pull_request_reviews='{"required_approving_review_count":
1, "dismiss_stale_reviews":true}' \
    --field restrictions=null
```

Manual Configuration via GitHub Web UI:

- 1. Go to Settings → Branches
- 2. Add rule for safe-improvements
- 3. Enable:
- Require pull request reviews before merging
- Require status checks to pass before merging
- Require branches to be up to date before merging
- Include administrators

2. Environments Setup

Create three environments with appropriate protection rules:

Production Environment:

```
gh api repos/romanchaa997/Audityzer/environments/production --method PUT \
    --field wait_timer=0 \
    --field reviewers='[{"type":"User","id":USER_ID}]' \
    --field deployment_branch_policy='{"protec-ted_branches":true,"custom_branch_policies":false}'
```

Staging Environment:

```
gh api repos/romanchaa997/Audityzer/environments/staging --method PUT \
    --field wait_timer=0 \
    --field deployment_branch_policy='{"protec-ted_branches":false, "custom_branch_policies":true}'
```

Development Environment:

```
gh api repos/romanchaa997/Audityzer/environments/development --method PUT \
--field wait_timer=0
```

3. GitHub Actions Configuration

Ensure workflows are properly configured:

Current Workflows:

- .github/workflows/ci-cd.yml Main CI/CD pipeline
- .github/workflows/deploy.yml Deployment workflow
- .github/workflows/labeler.yml Auto-labeling
- .github/workflows/test-and-build.yml Testing and building

Required Secrets:

```
# Add repository secrets
gh secret set DEPLOY_TOKEN --body "your_deploy_token"
gh secret set DATABASE_URL --body "your_database_url"
gh secret set API_KEY --body "your_api_key"
```

4. Webhooks Configuration

Set up webhooks for CI/CD integration:

```
# Example webhook for deployment
gh api repos/romanchaa997/Audityzer/hooks --method POST \
    --field name=web \
    --field active=true \
    --field events='["push","pull_request"]' \
    --field config='{"url":"https://your-deployment-service.com/web-hook","content_type":"json"}'
```

5. Repository Rulesets

Configure advanced rulesets:

```
# Create ruleset for main branches
gh api repos/romanchaa997/Audityzer/rulesets --method POST \
    --field name="Main Branch Protection" \
    --field target=branch \
    --field enforcement=active \
    --field conditions='{"ref_name":{"include":["refs/heads/safe-improvements","refs/heads/main"]}}' \
    --field rules='[{"type":"required_status_checks","parameters":{"re-quired_status_checks":[{"context":"ci"}]}}]'
```

6. Security Configuration

Dependabot Configuration:

Create .github/dependabot.yml:

```
version: 2
updates:
    package-ecosystem: "npm"
    directory: "/"
    schedule:
        interval: "weekly"
    open-pull-requests-limit: 10
```

Code Scanning:

- CodeQL is already configured
- Ensure it runs on all pull requests
- Review and fix identified vulnerabilities

7. Codespaces Configuration

Create .devcontainer/devcontainer.json:

IMMEDIATE ACTIONS REQUIRED

1. Fix Security Vulnerabilities

```
# Update dependencies to fix vulnerabilities
npm audit fix --force
npm update
```

2. Configure Branch Protection

- Go to GitHub → Settings → Branches
- Add protection rule for safe-improvements
- Enable required reviews and status checks

3. Set Up Environments

- Go to GitHub → Settings → Environments
- · Create: production, staging, development
- · Configure deployment protection rules

4. Enable GitHub Actions

- Ensure all workflows have proper permissions
- · Add required secrets for deployment
- Test workflow execution

VERIFICATION CHECKLIST

- [] Repository shows latest commits and changes
- [] GitHub Actions workflows are running successfully
- [] Branch protection rules are active
- [] Environments are configured with proper protection
- [] Security vulnerabilities are addressed
- [] Webhooks are configured for CI/CD
- [] Codespaces configuration is working
- [] All repository settings are optimized for production

Quick Links

- Repository Rules (https://github.com/romanchaa997/Audityzer/rules)
- Security Alerts (https://github.com/romanchaa997/Audityzer/security/dependabot)
- Actions (https://github.com/romanchaa997/Audityzer/actions)
- Environments (https://github.com/romanchaa997/Audityzer/settings/environments)
- Branch Protection (https://github.com/romanchaa997/Audityzer/settings/branches)

Configuration completed on: 2025-06-11

Repository Status: Synced and Ready for Production