

Challenge2 Step By Step

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Challenge 2 - Step - by - Step

Introduction

As a development team at Globoticket, it's crucial to ensure a consistent and efficient development environment for all team members. Setting up a standardized codespace helps achieve this by providing a cloud-based development environment pre-configured with all necessary tools and extensions. This guide will walk you through the steps to create, configure, and maintain a codespace that can run C# code, ensuring every developer has the same setup. This minimizes setup time, reduces configuration errors, and allows the team to focus on building and improving the application.

Prerequisites

Before you start, make sure you have the following prerequisites:

1. **Finish Challenge 1** - Ensure you have completed the steps in Challenge 1 to set up a codespace with the necessary extensions.

Release Pipeline Configuration

Ensure the workflows target the `production` environment:

1. Edit the `.github/workflows/build-deploy-catalog.yml` and make sure you add `environment: production` to the `deploy` job.
2. Edit the `.github/workflows/build-deploy-frontend.yml` and make sure you add `environment: production` to the `deploy` job.
3. Edit the `.github/workflows/build-deploy-ordering.yml` and make sure you add `environment: production` to the `deploy` job.

Create/update the `production` environment:

1. Navigate to the **Settings** tab of your repository.
2. Open the **Environments** section.
3. If an environment named `production` does not exist, click **New environment** and create a new environment named `production`, otherwise open the `production` environment.
4. Set the following options:
 - Check **Required Reviewers** and add your team as reviewer.
 - Check **Prevent self-review**.
 - Make sure you click **Save protection rules**.
5. Under **Deployment branches and tags** select **Protected Branched Only**.

Branch Protection Rules

1. Navigate to the **Settings** tab of your repository.
2. Open the **Rules** section.
3. Click on the **Rulesets**.
4. Click on the **New Ruleset** button and select the **New Branch ruleset** option.
5. Set the following options:
 - Ruleset name: **Protect main branch**
 - Enforcement status: **Active**
 - Under **Target branches**, click **Add Target** and select **Include default branch**.
 - Under **Rules**, check the following rules:
 - **Restrict deletions**
 - **Require linear history**
 - **Require a pull request before merging**
 - **Require Approvals: 1**
 - **Dismiss stale pull request approvals when new commits are pushed**
 - **Require review from Code Owners**
 - **Require approval of the most recent reviewable push**
 - **Require conversation resolution before merging**
 - **Block force pushes**

Codeowners Setup

1. Add a new file to the repository in the `.github` folder with the following name `CODEOWNERS`.
2. For each folder and file you want to protect add a line with the folder or file name and the GitHub team that should review any changes. For example:

```
/catalog/ @globaldevopsexperience/your-team
/frontend/ @globaldevopsexperience/your-team
/ordering/ @globaldevopsexperience/your-team
```

3. Also add a line to protect the `CODEOWNERS` file itself:

```
/.github/CODEOWNERS @globaldevopsexperience/your-team
```

4. Commit the file to the repository. If needed merge your changes to the `main` branch.

Rebase Strategy

1. Navigate to the **Settings** tab of your repository.
2. Click on the **General** section.
3. Scroll down to the **Pull Requests** section.
4. Make sure **Allow merge commits** is unchecked.

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