



Foundations in Data Engineering

GitLab - First Steps

Alexander Beischl



1. Create an account

- Go to https://gitlab.db.in.tum.de/users/sign_in
- Klick on register

Chair for Database Systems

Welcome to our GitLab

You can register an account using an email address from the following domains:

- in.tum.de
- tum.de
- mytum.de

We reserve the right to disable and eventually delete accounts after a semester ended.

For unrelated projects, please use the GitLab from the LRZ:
<https://gitlab.lrz.de/>

Sign in **Register**

Username or email

Password

Remember me [Forgot your password?](#)

Sign in



1. Create an account

- Enter all required information
- Follow the instructions

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<https://gitlab.lrz.de/>

Sign in	Register
<input type="text" value="First name"/>	<input type="text" value="Last name"/>
<input type="text" value="Username"/>	
<input type="text" value="Email"/>	
<input type="text" value="Password"/>	
Minimum length is 8 characters	
<input type="button" value="Register"/>	

2. Forking the project

- Go back to the project:
[https://gitlab.db.in.tum.de/
AlexBeischl/fde20-
bonusproject-1](https://gitlab.db.in.tum.de/AlexBeischl/fde20-bonusproject-1)
- Fork the project using the
button on the top right

Alexander Beischl > fde20-bonusproject-1 > Details

fde20-bonusproject-1 Project ID: 3725

1 Commit 1 Branch 0 Tags 758 KB Files 791 KB Storage

master fde20-bonusproject-1 History Find file Clone

Initial import Alexander Beischl authored 4 days ago

[86ceec4d](#)

[README](#) [CI/CD configuration](#) [No license. All rights reserved](#)

Name	Last commit	Last update
bench	Initial import	19 minutes ago
include	Initial import	19 minutes ago
lib	Initial import	19 minutes ago
src	Initial import	19 minutes ago
test	Initial import	19 minutes ago
.clang-format	Initial import	19 minutes ago
.gitignore	Initial import	19 minutes ago
.gitlab-ci.yml	Initial import	19 minutes ago

2. Forking the project

- Add it to into your own namespace.

Alexander Beischl > fde20-bonusproject-1 > **Fork project**

Fork project

A fork is a copy of a project.
Forking a repository allows you to make changes without affecting the original project.

Select a namespace to fork the project

SmartyStudent

Select

Groups and subgroups

No available groups to fork the project.

You must have permission to create a project in a group before forking.



2. Forking the project

- Now you have a local copy of the project to work on.

The project was successfully forked.

fde20-bonusproject-1

Project ID: 3776

1 Commit 1 Branch 0 Tags 133 KB Files 133 KB Storage

Forked from Alexander Beischl / fde20-bonusproject-1

master fde20-bonusproject-1 / + History Find file Web IDE Clone

Initial import
Alexander Beischl authored 5 days ago

86ceec4d

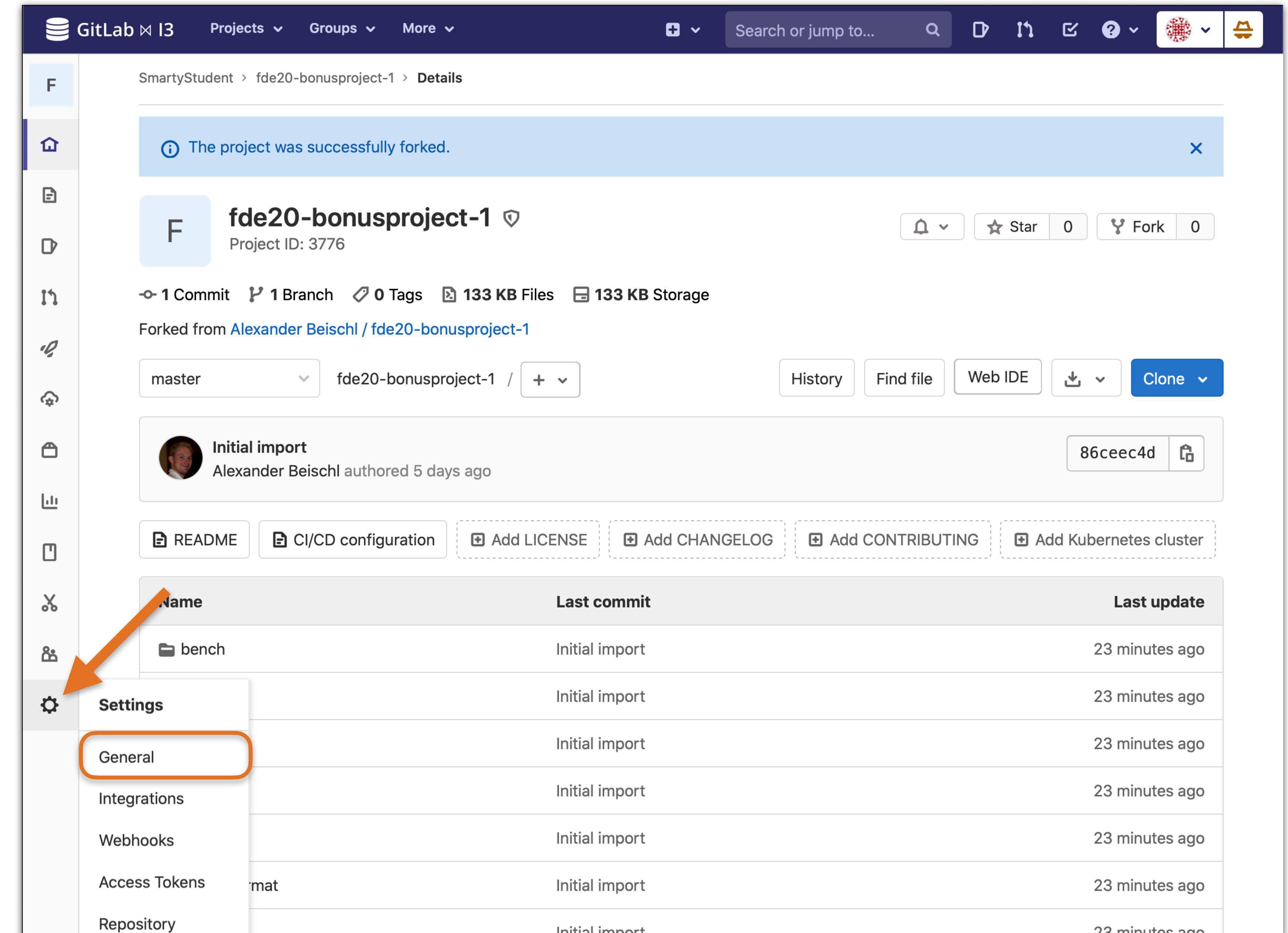
Files

- README
- CI/CD configuration
- Add LICENSE
- Add CHANGELOG
- Add CONTRIBUTING
- Add Kubernetes cluster

Name	Last commit	Last update
bench	Initial import	23 minutes ago
include	Initial import	23 minutes ago
lib	Initial import	23 minutes ago
src	Initial import	23 minutes ago
test	Initial import	23 minutes ago
.clang-format	Initial import	23 minutes ago
.gitignore	Initial import	23 minutes ago

3. Set the visibility to private

- Go to Setting -> General



The screenshot shows the GitLab interface for a project named "fde20-bonusproject-1". The sidebar on the left has a "Settings" icon with a gear symbol, which is highlighted by a red arrow pointing to the "General" tab in the main content area. The main content area displays various project details and a table of recent commits.

Project Details:

- Project ID: 3776
- Forked from Alexander Beischl / fde20-bonusproject-1
- 1 Commit, 1 Branch, 0 Tags, 133 KB Files, 133 KB Storage

Recent Commits:

Name	Last commit	Last update
bench	Initial import	23 minutes ago
	Initial import	23 minutes ago
	Initial import	23 minutes ago
	Initial import	23 minutes ago
	Initial import	23 minutes ago
	Initial import	23 minutes ago
	Initial import	23 minutes ago
	Initial import	23 minutes ago
	Initial import	23 minutes ago

Actions:

- History, Find file, Web IDE, Clone
- Commit hash: 86ceec4d

Sidebar Settings:

- General (highlighted)
- Integrations
- Webhooks
- Access Tokens
- Repository

3. Set the visibility to private

- Visibility, project features, permissions -> Expand

The screenshot shows the 'General Settings' page for a project named 'fde20-bonusproject-1'. The left sidebar has a 'F' icon selected. The main area displays 'Naming, topics, avatar' settings, including fields for 'Project name' (fde20-bonusproject-1), 'Project ID' (3776), 'Topics (optional)', and 'Project description (optional)'. Below this is the 'Project avatar' section, which currently shows a placeholder image with a large 'F' and a file upload button. A red arrow points to the 'Expand' button in the 'Visibility, project features, permissions' section at the bottom right.

SmartyStudent > fde20-bonusproject-1 > General Settings

Naming, topics, avatar

Update your project name, topics, description and avatar.

Project name fde20-bonusproject-1 **Project ID** 3776

Topics (optional)

Separate topics with commas.

Project description (optional)

Project avatar

Choose file... No file chosen
The maximum file size allowed is 200KB.

Save changes

Visibility, project features, permissions

Choose visibility level, enable/disable project features (issues, repository, wiki, snippets) and set permissions.

Merge requests

Expand

3. Set the visibility to private

- Click on Internal and change it to **private**.
- If you don't do this your submissions won't be accepted for the bonus, because everyone can see your implementation, use your tricks or copy your code.

The screenshot shows a project configuration interface with a sidebar of icons. The 'Settings' icon (gear) is selected, highlighted with a purple bar.

Naming, topics, avatar

Update your project name, topics, description and avatar.

Project name: fde20-bonusproject-1

Project ID: 3776

Topics (optional): (empty input field)

Separate topics with commas.

Project description (optional): (empty input field)

Project avatar:

Choose file... No file chosen
The maximum file size allowed is 200KB.

Save changes

Visibility, project features, permissions

Choose visibility level, enable/disable project features (issues, repository, wiki, snippets) and set permissions.

Project visibility

Internal (selected, highlighted with an orange border)

The project can be accessed by any user who is logged in.

Allow users to request access

3. Set the visibility to private

- Click on Internal and change it to **private**.
- If you don't do this your submissions won't be accepted for the bonus, because everyone can see your implementation, use your tricks or copy your code.

The screenshot shows a project configuration interface with a sidebar of icons. The 'Settings' icon is selected, indicated by a purple bar at the bottom of the sidebar.

Naming, topics, avatar

Update your project name, topics, description and avatar.

Project name: fde20-bonusproject-1

Project ID: 3776

Topics (optional): (empty input field)

Separate topics with commas.

Project description (optional): (empty input field)

Project avatar:

Choose file... No file chosen
The maximum file size allowed is 200KB.

Save changes

Visibility, project features, permissions

Choose visibility level, enable/disable project features (issues, repository, wiki, snippets) and set permissions.

Project visibility ?

Private (selected, highlighted with a red box)

The project is accessible only by members of the project. Access must be granted explicitly to each user.

Issues

3. Set the visibility to private

- And don't forget to scroll down and save the changes!

Git Large File Storage (LFS) ?
Manages large files such as audio, video, and graphics files

Packages ?
Every project can have its own space to store its packages

Wiki
Pages for project documentation
 Only Project Members

Snippets
Share code pastes with others out of Git repository
 Only Project Members

Metrics Dashboard
With Metrics Dashboard you can visualize this project performance metrics
Only Project Members

Disable email notifications
This setting will override user notification preferences for all project members.

Show default award emojis
When enabled, issues, merge requests, and snippets will always show thumbs-up and thumbs-down award emoji buttons.

Save changes

Merge requests

Choose your merge method, merge options, merge checks, and merge suggestions.

Badges

Customize your project badges [Learn more about badges](#)

Expand

Expand

4. Set teamname, realname and matrNr in team.txt

- Work on the project on an IDE of your choice
- We recommend CLion, more information in the Moodle course & Tooling Session 1
- Update the team.txt-file with your credentials
- Work on the project and submit it via commit & push (more details in the Moodle course)

```
Teamname: YourNameHere
Realname: YourNameHere
MatrNr: YourMatrikelNrHere
Category: Student
```