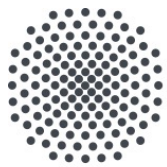


GitLab Instructions for Students



University of Stuttgart

Brian Setz, Robin Pesl

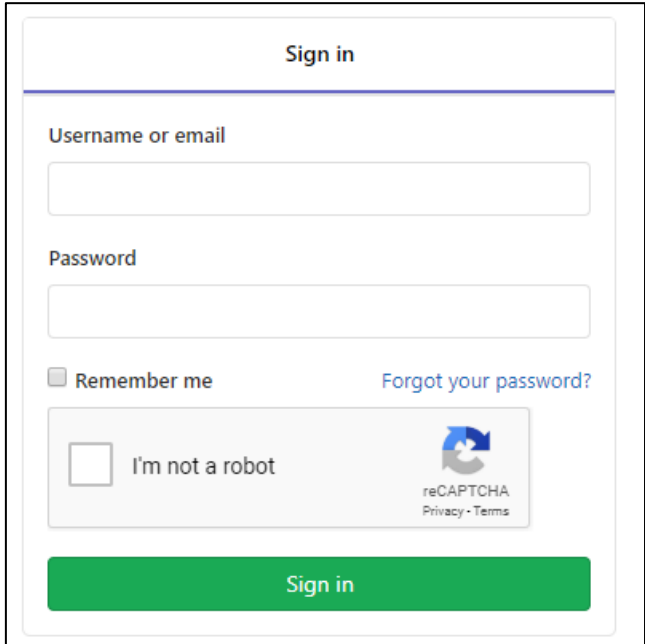
robin.pesl@iaas.uni-stuttgart.de

Service Computing Department

Institute of Architecture of Application Systems

Organisation of Student Repositories

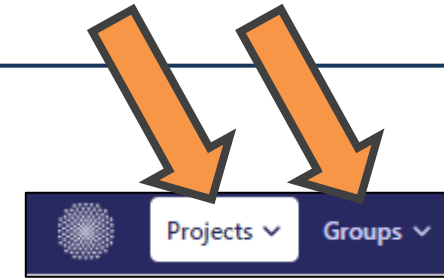
- GitLab <https://gitlab.svccomp.de/>
 - Web-based Git repository manager (like GitHub)
 - Git → distributed version control system
 - Documentation: <https://gitlab.svccomp.de/help/user/index.md>
 - Robin Pesl will create an account for you
 - Send your full name, student email, project type, and title
 - Follow the email instructions to set your password
- Login with your username / email and password once you have configured your password
- Fill in the reCAPTCHA
- Complete the login process



The image shows a web form for signing in to GitLab. At the top, there is a header "Sign in". Below it, there are two input fields: "Username or email" and "Password". Under the "Password" field, there is a checkbox labeled "Remember me" and a link "Forgot your password?". Below these, there is a reCAPTCHA widget with a checkbox and the text "I'm not a robot". To the right of the reCAPTCHA widget, there is a small logo and the text "reCAPTCHA Privacy - Terms". At the bottom of the form, there is a green button labeled "Sign in".

GitLab Usage

- Browse all groups assigned to you
 - <https://gitlab.svccomp.de/dashboard/groups>
- Browse all repositories assigned to you
 - <https://gitlab.svccomp.de/dashboard/projects>
- Setup your SSH keys
 - <https://gitlab.svccomp.de/profile/keys>
 - Generate SSH keys:
 - <https://gitlab.svccomp.de/help/ssh/README#generating-a-new-ssh-key-pair>
- How to use git
 - <https://rogerdudler.github.io/git-guide/>
 - <https://product.hubspot.com/blog/git-and-github-tutorial-for-beginners>
 - <https://git-scm.com/docs/gittutorial>



Branches

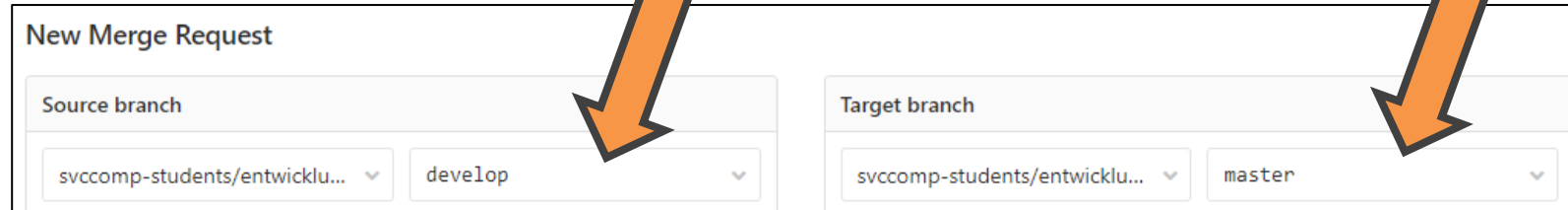
- Master branch should contain only the **final version** of your work
- By default the **master branch is protected**
 - This means you cannot commit to it
- Create a **develop branch**
 - `$ git checkout -b develop`
 - `$ git push -u origin develop`
- Add your commits to the develop branch and push them
- Modifications to this branching model may be made by your supervisor

Final Version

- Before finishing your project or thesis, the **final version has to be placed in the main branch**. This is mandatory

- Create a Merge Request

- Source: develop
- Target: main



New Merge Request

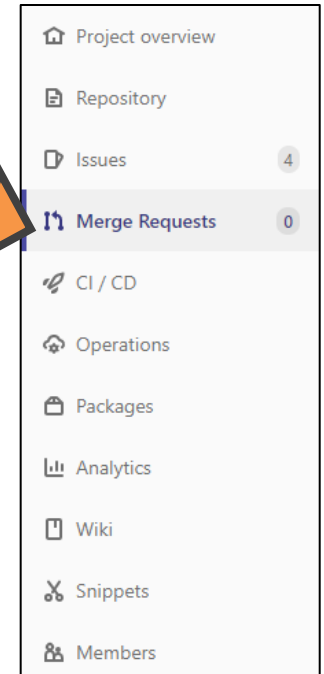
Source branch

svccomp-students/entwicklu... develop

Target branch

svccomp-students/entwicklu... master

Two orange arrows point to the 'develop' and 'master' dropdown menus in the source and target branch fields respectively.



- Assign your **supervisor** and **Robin Pesl** to the merge request



Assignee

Unassigned

An orange arrow points to the 'Unassigned' dropdown menu in the assignee field.

- Finalize the merge request