Chirp! Project Report

ITU BDSA 2024 Group 17

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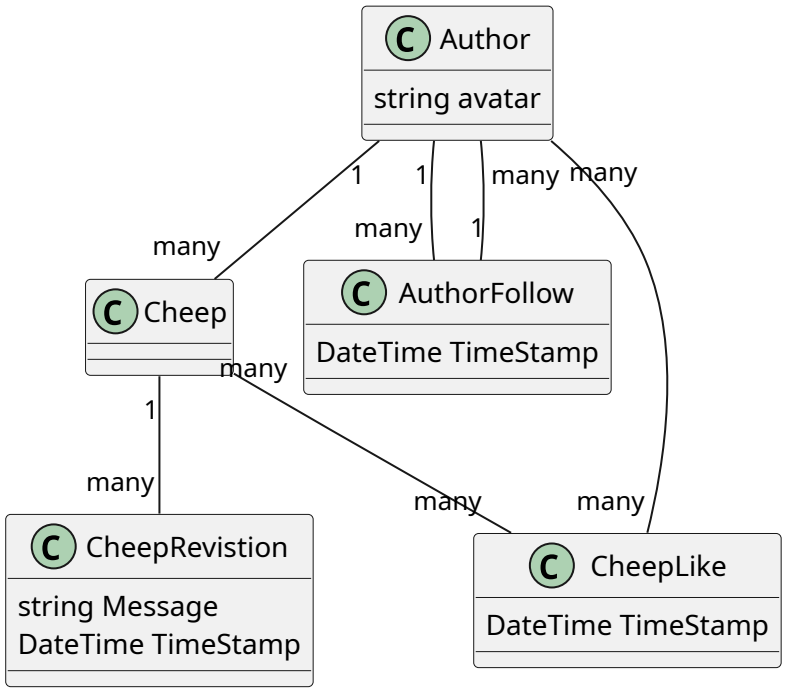
1 Design and Architecture of *Chirp!*

1.1 Domain model



1.2 Architecture — In the small

1.3 Architecture of deployed application

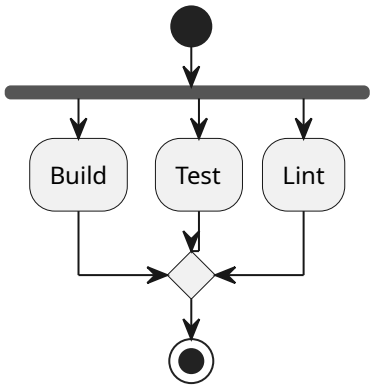
1.4 User activities

1.5 Sequence of functionality/calls trough *Chirp!*

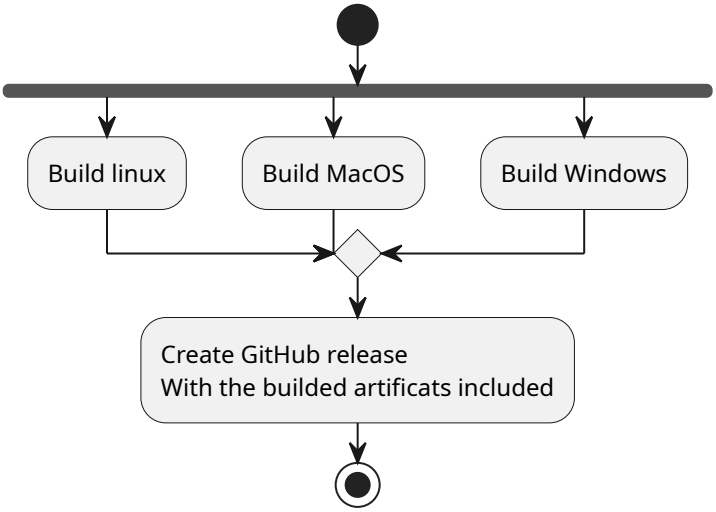
2 Process

2.1 Build, test, release, and deployment

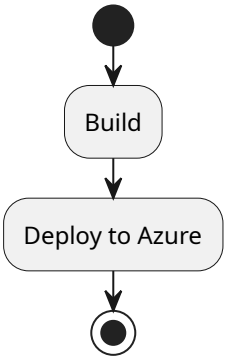
When a commit is pushed to a branch which currently is used for a pull request a workflow is ran on the commit. The workflow, builds, run all the tests and lints the code. If any of these fail or if any warning occour then the workflow will fail. Preventing the proposed changes from being merged into the main branch.



The following diagram shows one of the workflows that is being ran when a tag is pushed to the main branch. This workflow is building the artifacts for Linux, MacOS and Windows, which is then included in the GitHub release for that tag.



The other workflow that is being ran when a tag is pushed to main, is the



workflow responsible for Azure deployments.

2.2 Team work

2.3 How to make *Chirp!* work locally

Clone repository

```
git clone https://github.com/ITU-BDSA2024-GROUP17/Chirp
```

Change directory

```
cd Chirp
```

Run the 'Chirp.Web' project

```
dotnet run --project ./src/Chirp.Web
```

Chirp will now begin to build and then run when it is finished.

Then website can then be accessed via http://localhost:5163 in a browser.

Note: To enable login via GitHub OAuth, the following environment variables needs to be set.

Environment variable	Description
GHUB_CLIENT_ID	Id of the GitHub OAuth application
GHUB_CLIENT_SECRET	Secret of the GitHub OAuth application

2.4 How to run test suite locally

While being in the Chirp directory, which was cloned previously, the following command can be used to run all the tests.

```
dotnet test
```

3 Ethics

3.1 License

Chirp is licensed under MIT

3.2 LLMs, ChatGPT, CoPilot, and others