

# Week 8: Class Diagram

 [blog.bookly.online](http://blog.bookly.online)

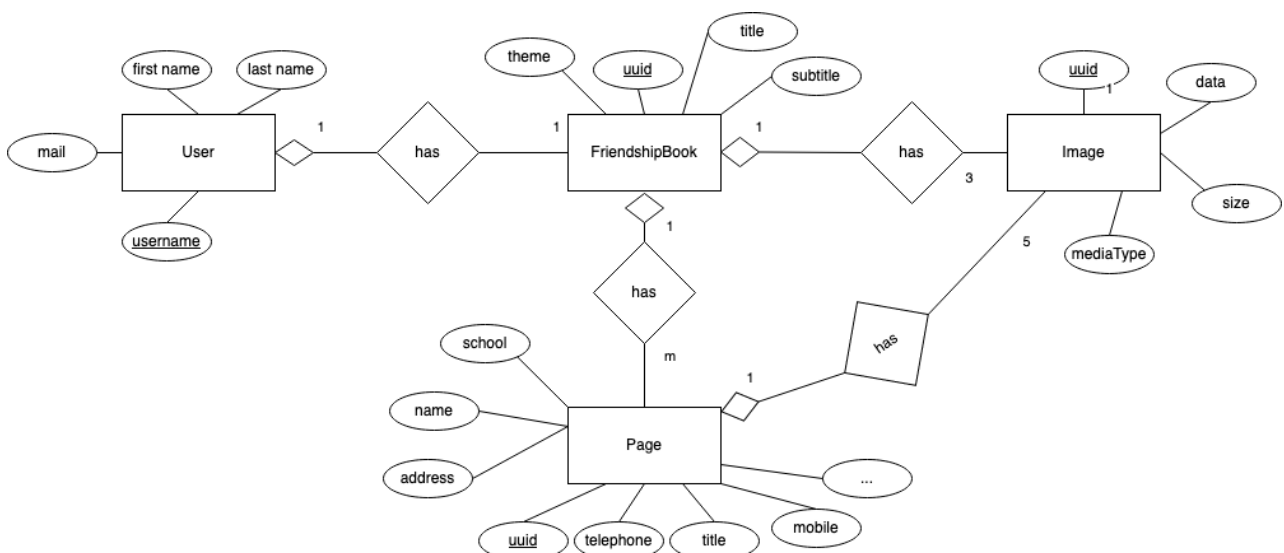
admin

November 22, 2019

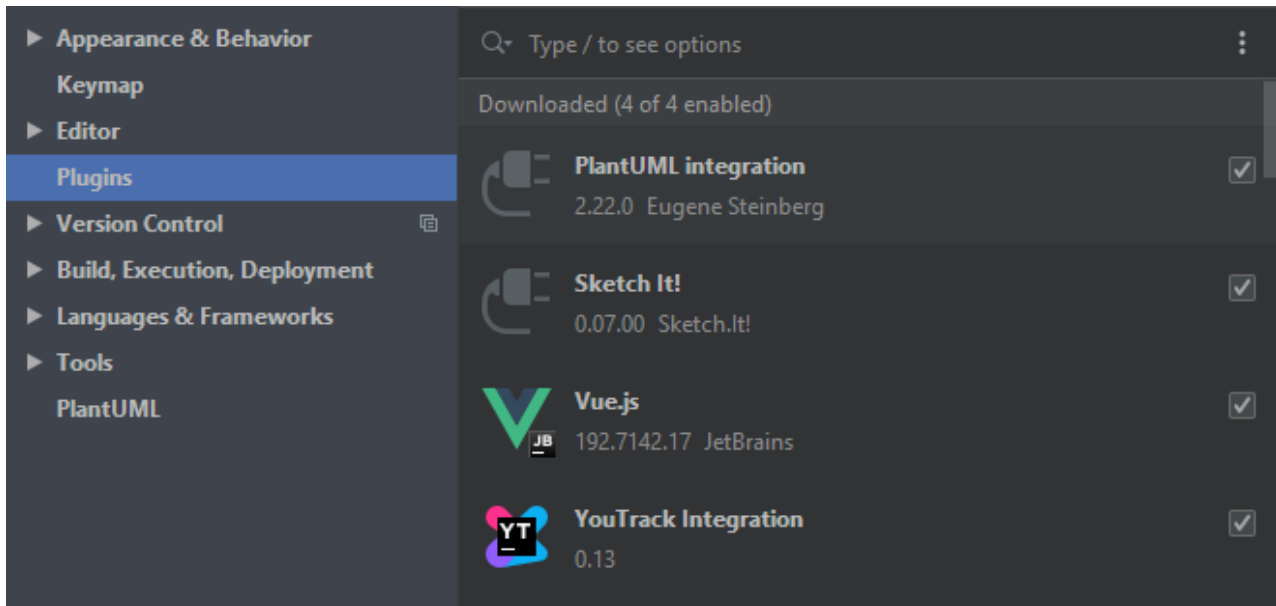


This weeks post is about UML, our project schema and some implementation we've already done!

As we want to save user data and most importantly book entries, we decided to use a database. For developing local we are using H2, and in production SQLite. Here you can see our database schema as ER-model. The current version can be found [here](#).



We use IntelliJ as our main IDE. This is why we have a wide range of plugins we can choose from. Here you can see a list of tools we installed. However because we use the Ultimate Edition Plugins like Git were already installed.



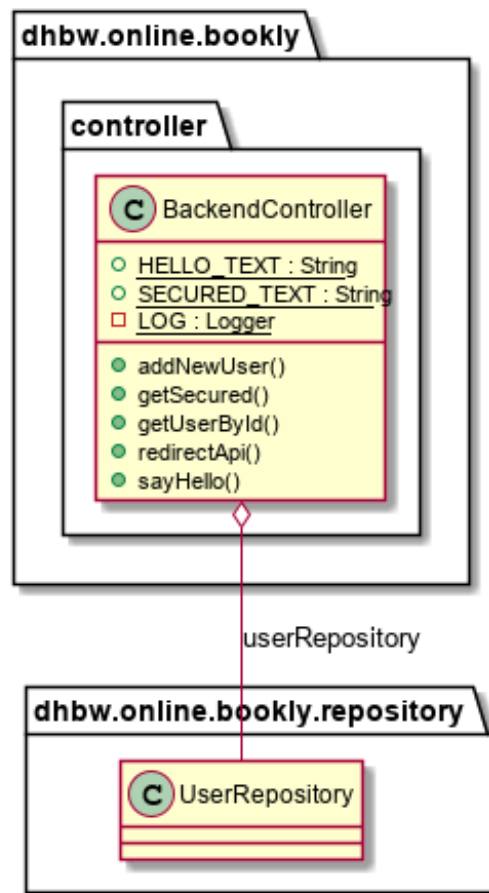
Using Sketch It! we can now generate fancy Class Diagrams! The most important class here is the BackendController because this class is the API which can be called by the frontend. You can see what methods this class has implemented (yet) in the following picture. As our Use Cases are mainly part of managing a book and a page, the most classes we need are REST controller, DTOs, Service-Classes and Repositories. We created most of them for generating the UML-Diagram but the most parts are not implemented yet. We are planing to realise them until december. The current version can be found [here](#).



Here you can see the class diagram of the BackendController. It already has

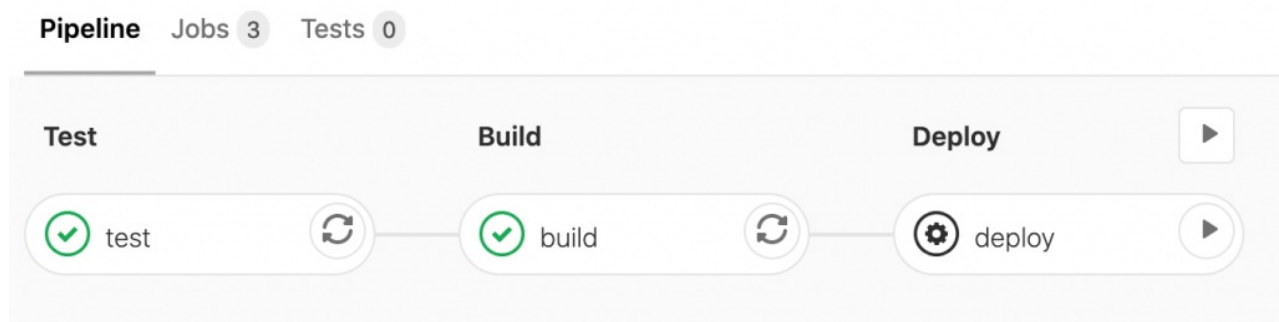
functionalities like login and a simple implementation of a basic authentication and user api.

### CONTROLLER's Class Diagram



PlantUML diagram generated by SketchIt! (<https://bitbucket.org/pmesmeur/sketch.it>)  
For more information about this tool, please contact [philippe.mesmeur@gmail.com](mailto:philippe.mesmeur@gmail.com)

We proved already in one of our last blog entries that we are having automated testing and a working cucumber instance. The tests are running (local and automated by our CI after pushing to a feature branch) and will be implemented within the next sprints. In the following pictures you can see a pipeline and a test log output and also the local testing with IntelliJ.



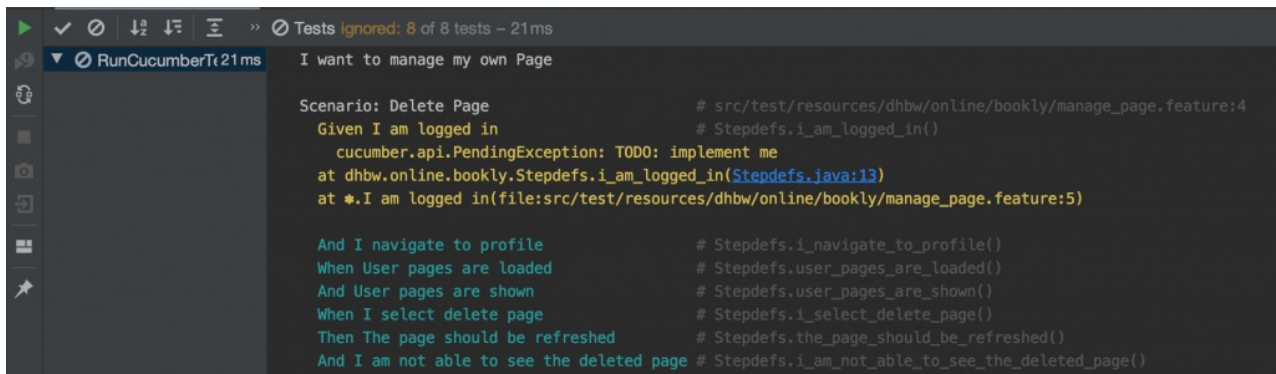
Our current pipelines

```

304 [WARNING] Tests run: 8, Failures: 0, Errors: 0, Skipped: 8, Time elapsed: 0.547
    s - in dhw.online.bookly.RunCucumberTest
305 [INFO]
306 [INFO] Results:
307 [INFO]
308 [WARNING] Tests run: 8, Failures: 0, Errors: 0, Skipped: 8

```

the log output of a test pipeline.



running a test in IntelliJ

## Implementation

In this week we also did a lot of implementation! We designed the landing page, added the login functionality by using basic authentication and a first simple API for a book and a user. Because our deployment works already so smoothly and automatic you can always check it out LIVE on [bookly.online](https://bookly.online).