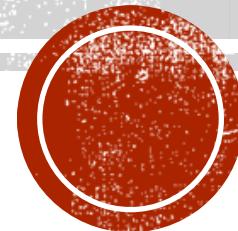


BOOKLY

midterm presentation



OUTLINE

- Project Management
 - RUP
 - Scrum and YouTrack
 - Burn-Down-Chart
 - Extend of functionality
 - Use Cases for Mockup
- Architecture
- Automation
- Demo



RUP- RATIONAL UNIFIED PROCESS

- **Alexandra**

- **Requirements Specifier:** Describe and phrase the features / design of the website with the team
- **Project Manager:** Phrase acceptance criteria of the features + Coordinate sprints + Manage YouTrack + Assign Tags

- **Jeanne**

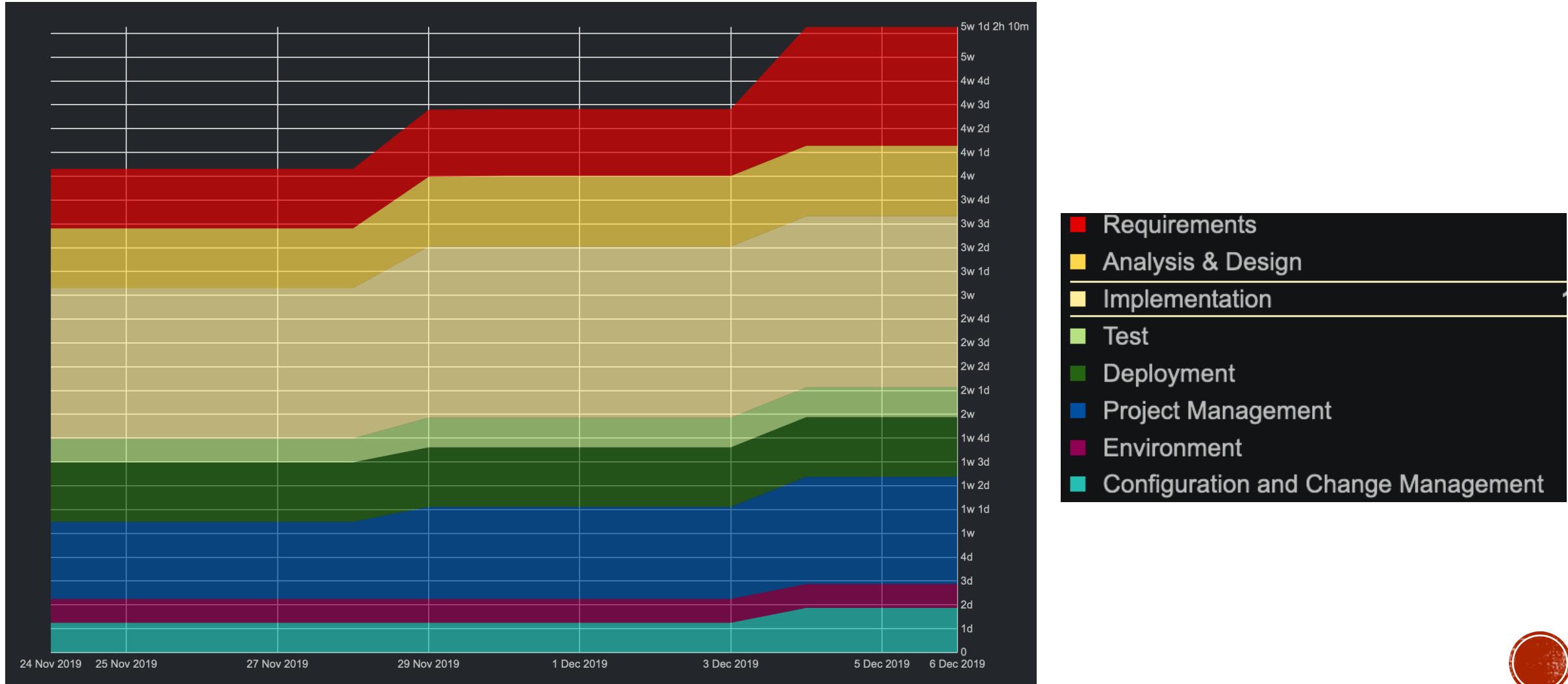
- **Implementer:** Create database structure, logic, and interfaces (API)
- **Tester:** Test the interfaces (APIs) between Frontend, Backend and Database and the functionality of the Frontend

- **Nico**

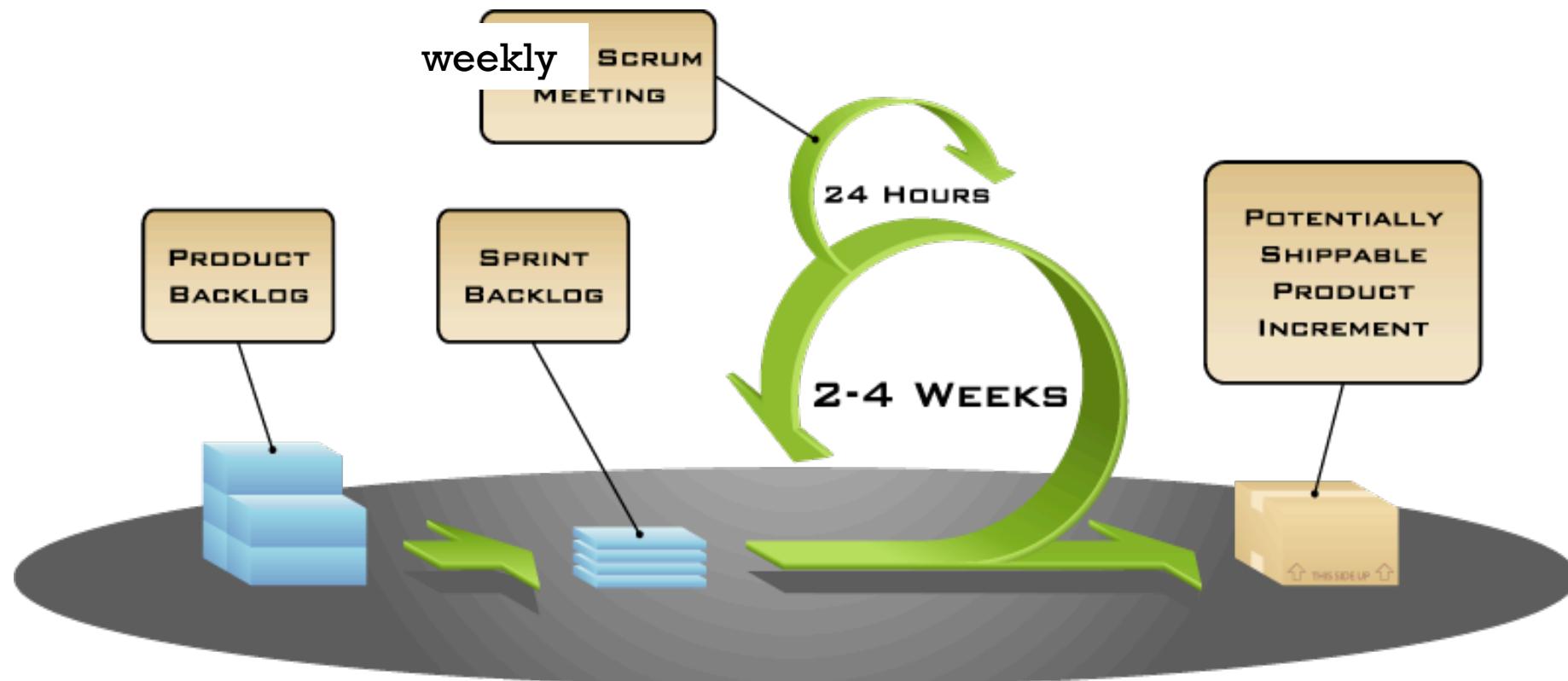
- **Deployer:** Host domain and integrate CI (and Docker)
- **Designer:** Implement the design described in the Use-Cases + Web tests



RUP- WORKFLOW



SCRUM AND YOUTRACK



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SCRUM AND YOUTRACK

The screenshot shows the YouTrack Agile Boards interface. At the top, there is a navigation bar with links for Issues, Dashboards, Agile Boards, Reports, Projects, Create, and a help icon. The main area displays a Scrum board for the project 'bookly Project Develop...'. The board has three columns: 'Sprint 1' (14 — 28 Nov), 'Code Review', and 'Testing'. Below the columns, there are buttons for Open, In Progress, Code Review, Testing, and Done, along with a timer showing 0m, 0m, and 0m respectively. A summary at the bottom right indicates 14 cards and a duration of 1w2d1h10m. The 'Uncategorized Cards' section is expanded, showing three empty columns with '+' icons for adding new cards. To the right, two cards are listed: 'BOOKLY-45 Update use case diagramm' and 'BOOKLY-14 create Read.md'. Each card includes a user icon (JH), a priority color (green), and a duration (10m and 1h respectively).

Issues | Dashboards | Agile Boards | Reports | Projects | Create | ? | SA

bookly Project Develop... | Filter cards on the board | Search

Sprint 1 | 14 — 28 Nov | Code Review | Testing | Done | 1w2d1h10m

Open | In Progress | 0m | Code Review | 0m | Testing | 0m | Done | 1w2d1h10m

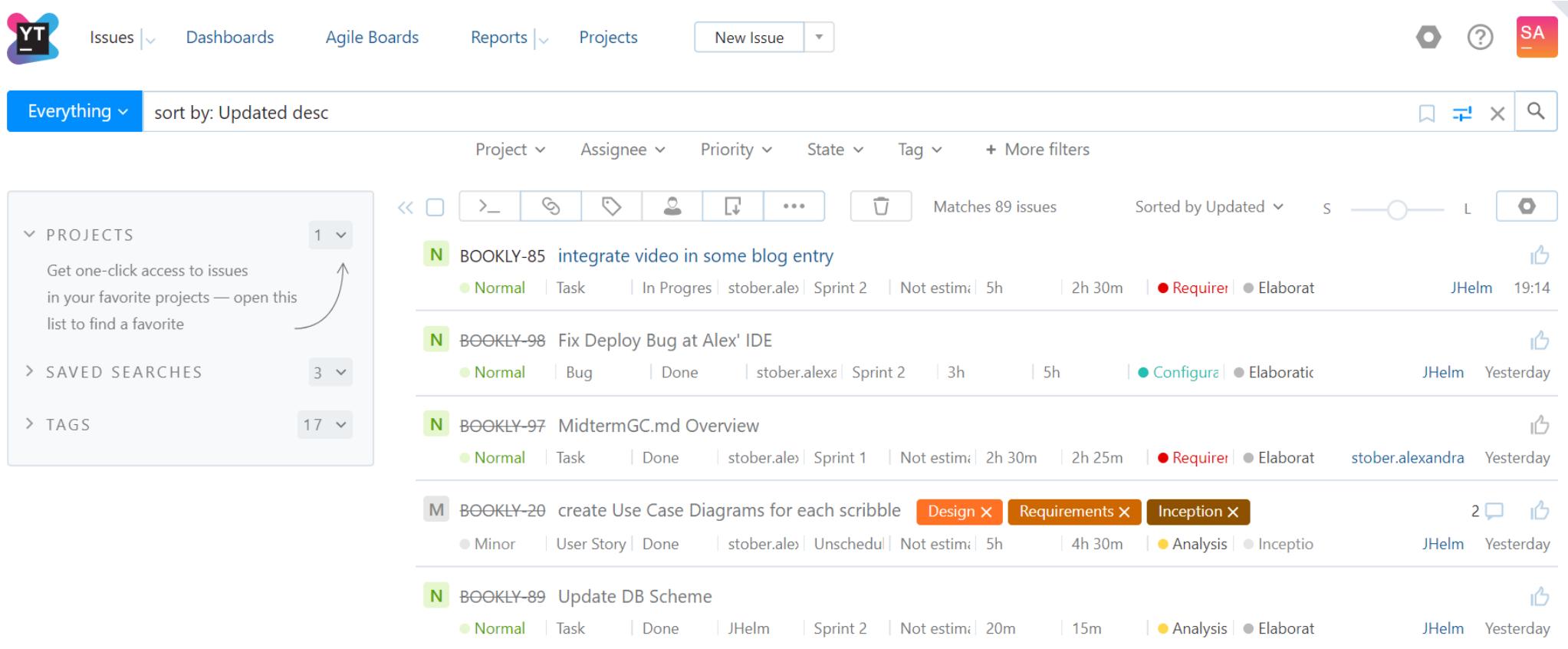
Uncategorized Cards | 14 cards

+ | + | +

BOOKLY-45 Update use case diagramm
JH | Normal Task Not estimated | 10m

BOOKLY-14 create Read.md
JH | Normal Task Not estimated | 1h

SCRUM AND YOUTRACK



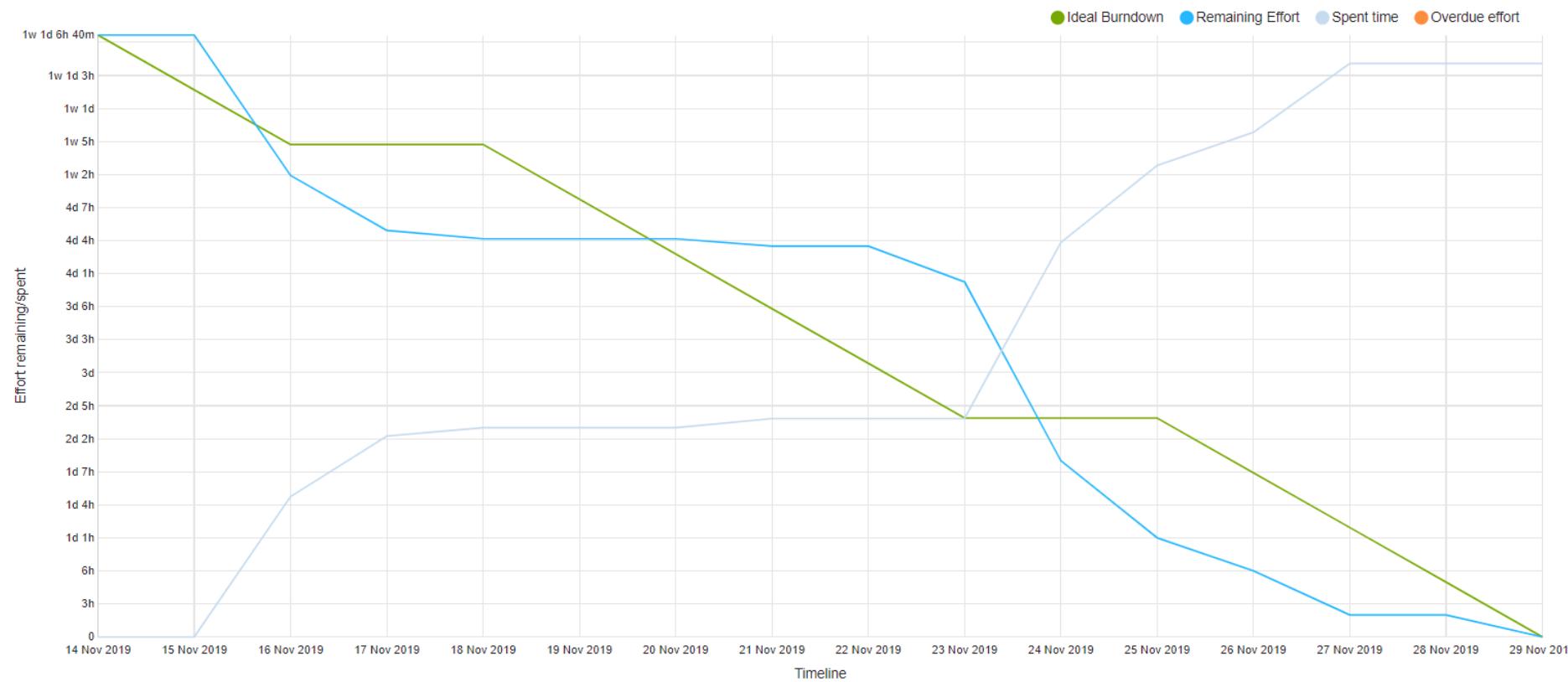
The screenshot shows the YouTrack interface with the following details:

- Header:** Issues, Dashboards, Agile Boards, Reports, Projects, New Issue, and various icons for settings and help.
- Search Bar:** Everything (selected), sort by: Updated desc, and a search icon.
- Filter Bar:** Project, Assignee, Priority, State, Tag, and More filters.
- Project Sidebar:** Projects (1), Saved Searches (3), and Tags (17).
- Issue List:** Matches 89 issues, Sorted by Updated. The list includes the following items:

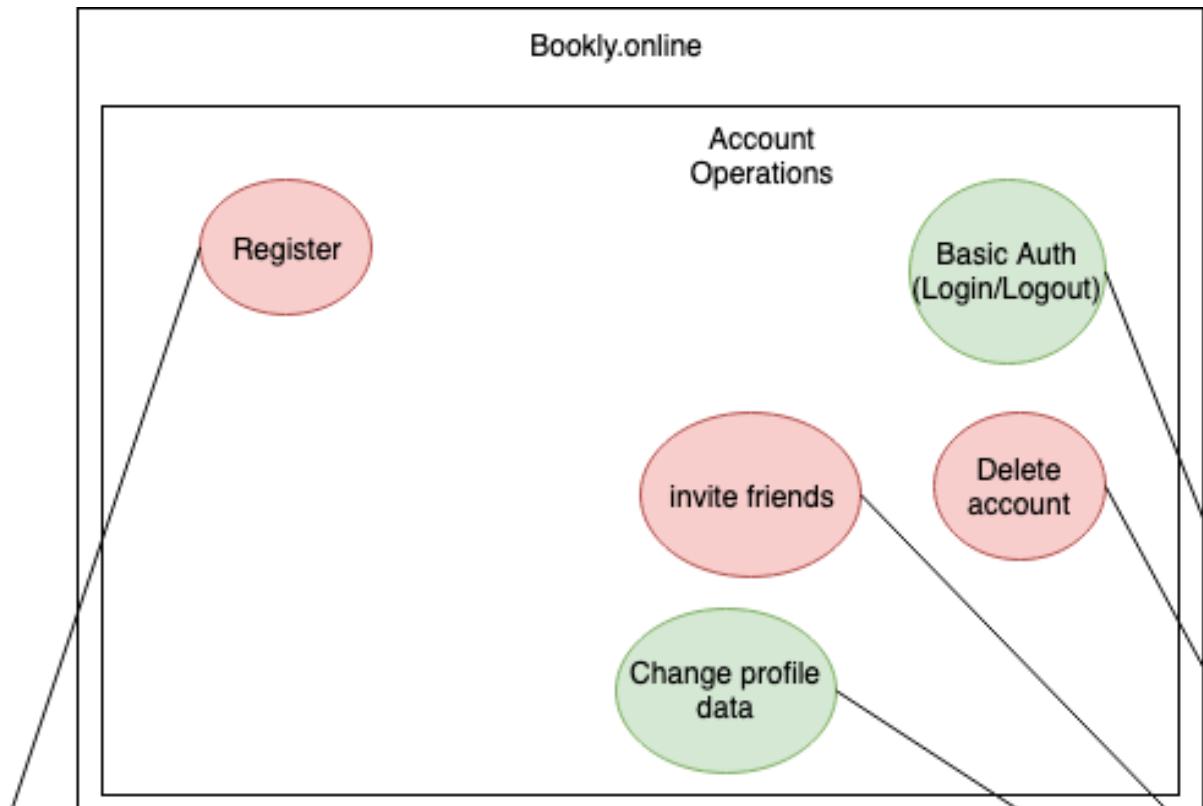
 - BOOKLY-85** integrate video in some blog entry: Normal Task, In Progress, stober.alex, Sprint 2, Not estimated, 5h, 2h 30m, Requirer, Elaboration, JHelm, 19:14.
 - BOOKLY-98** Fix Deploy Bug at Alex' IDE: Normal Bug, Done, stober.alex, Sprint 2, 3h, 5h, Configura, Elaborative, JHelm, Yesterday.
 - BOOKLY-97** MidtermGC.md Overview: Normal Task, Done, stober.alex, Sprint 1, Not estimated, 2h 30m, 2h 25m, Requirer, Elaboration, stober.alexandra, Yesterday.
 - BOOKLY-20** create Use Case Diagrams for each scribble: Minor User Story, Done, stober.alex, Unscheduled, Not estimated, 5h, 4h 30m, Analysis, Inception, JHelm, Yesterday. Labels: Design X, Requirements X, Inception X.
 - BOOKLY-89** Update DB Scheme: Normal Task, Done, JHelm, Sprint 2, Not estimated, 20m, 15m, Analysis, Elaboration, JHelm, Yesterday.



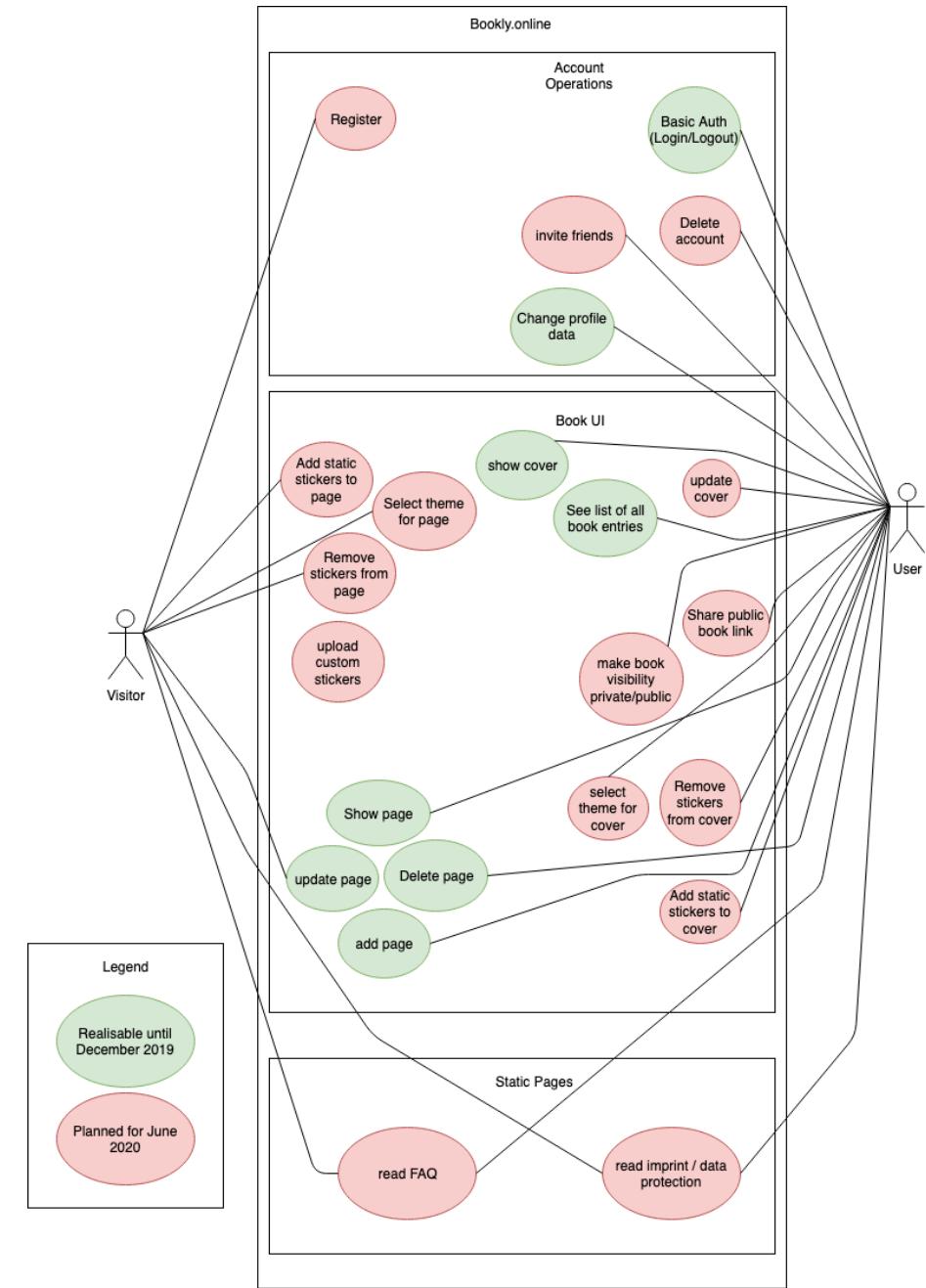
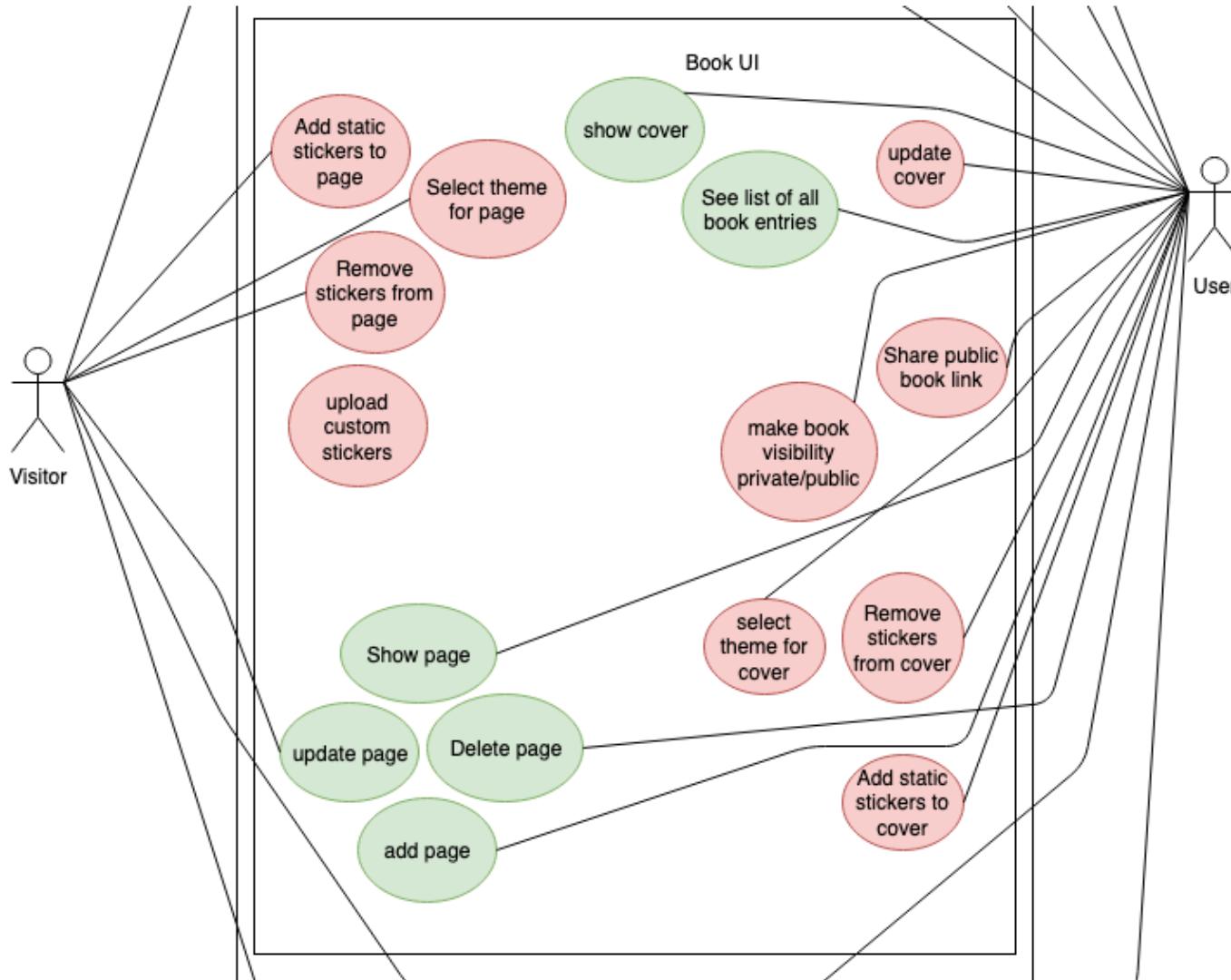
BURN-DOWN-CHART



EXTEND OF FUNCTIONALITY



EXTEND OF FUNCTIONALITY



USE CASES FOR MOCKUP

- CRUD: Manage page:
 - C: create book entry - **S E**
 - R: read an entry - **S E**
 - U: update/edit an entry - **S E**
 - D: delete an entry - **S I**
- CRUD: Manage Book:
 - C: create a book - **S E**
 - R: show all entries & cover - **S E**
 - U: update the cover - **X I**
 - D: delete the whole book - **S I**

Legend:

S=Scope; **X = out of scope;**

I = Included in CRUD (not counted as UC)

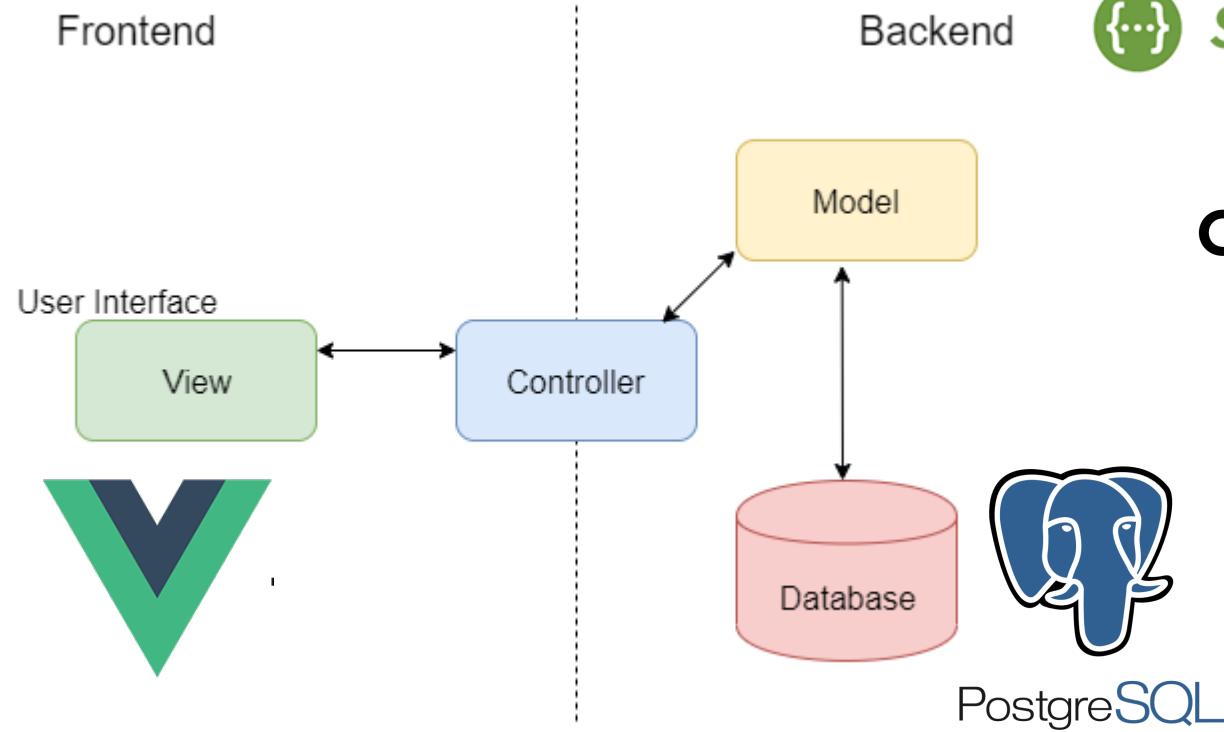
E = Excluded (external UC document -> counted as UC)



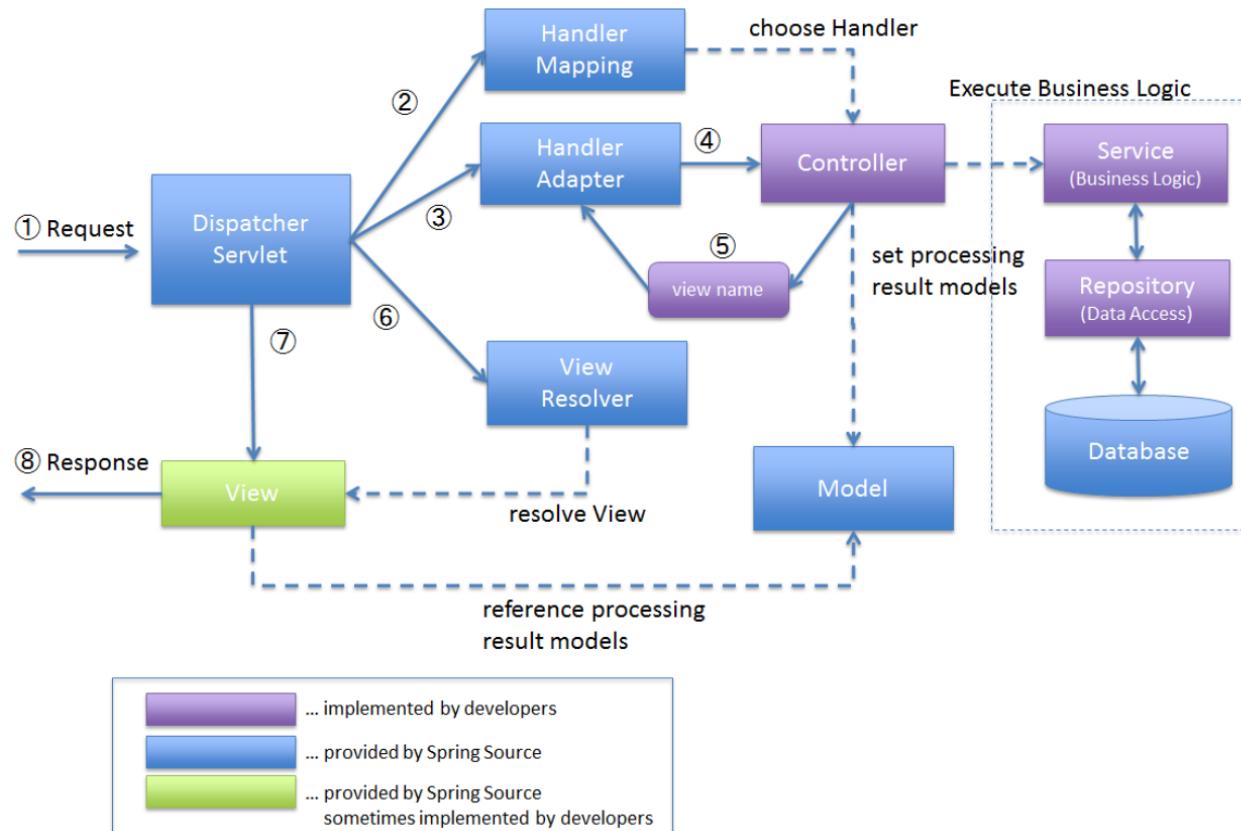
ARCHITECTURE - OVERVIEW



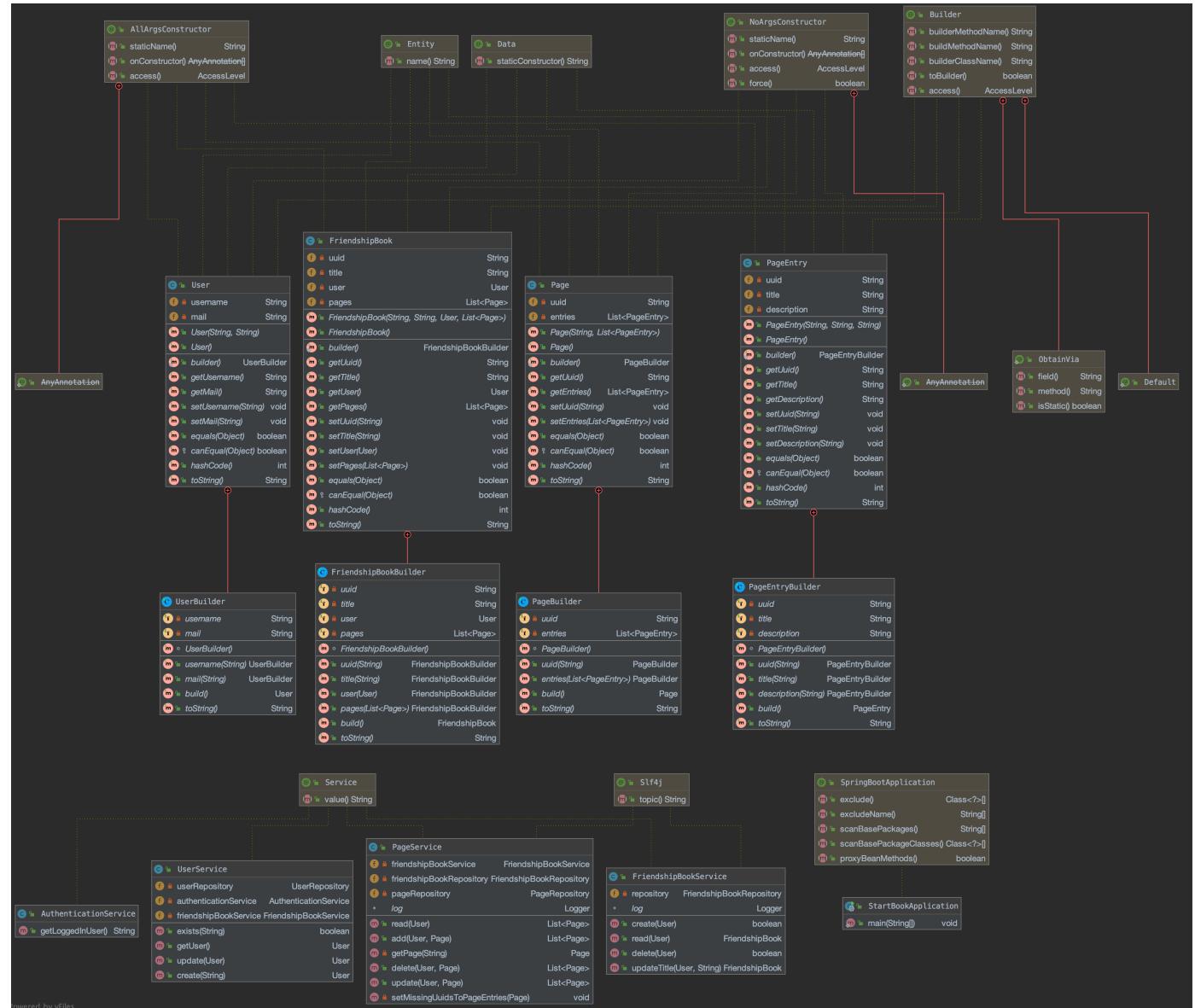
ARCHITECTURE - OVERVIEW



ARCHITECTURE – OVERVIEW



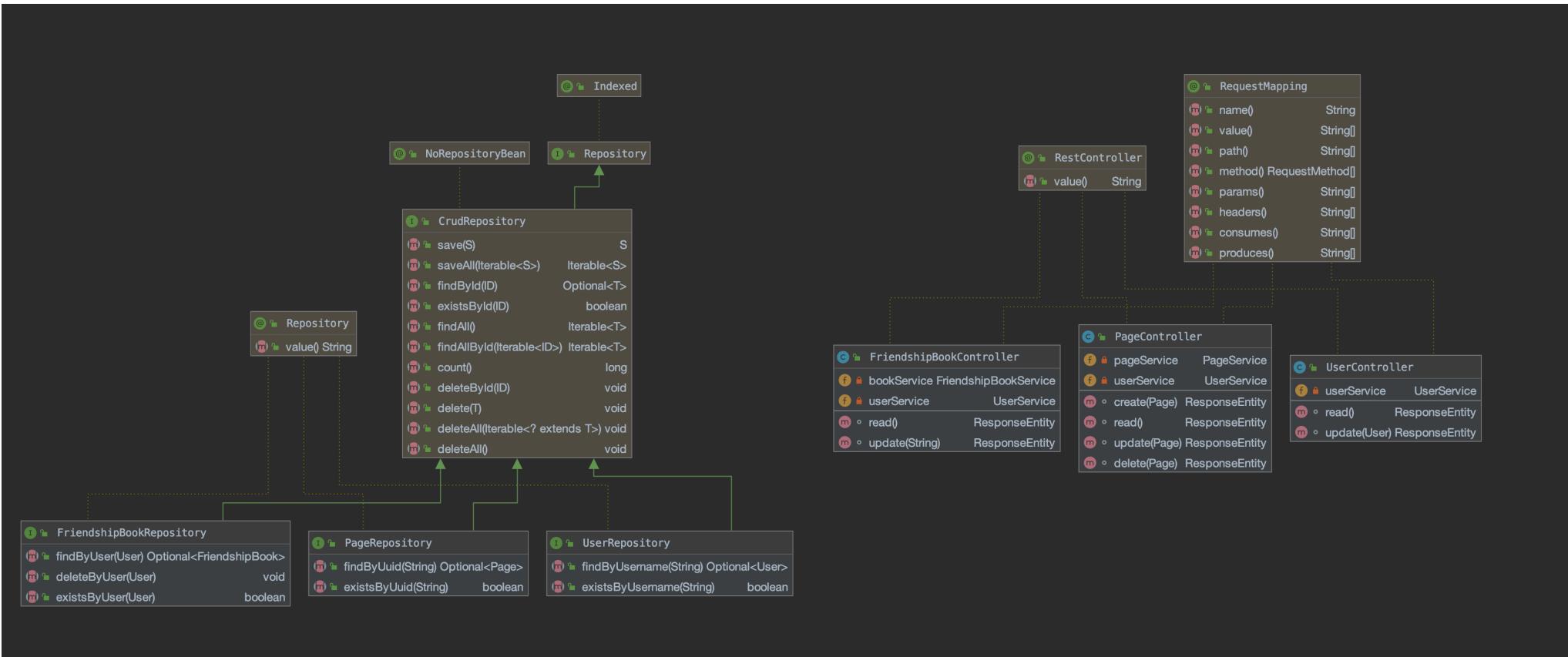
C D
L I
A A
S G
S R
A M



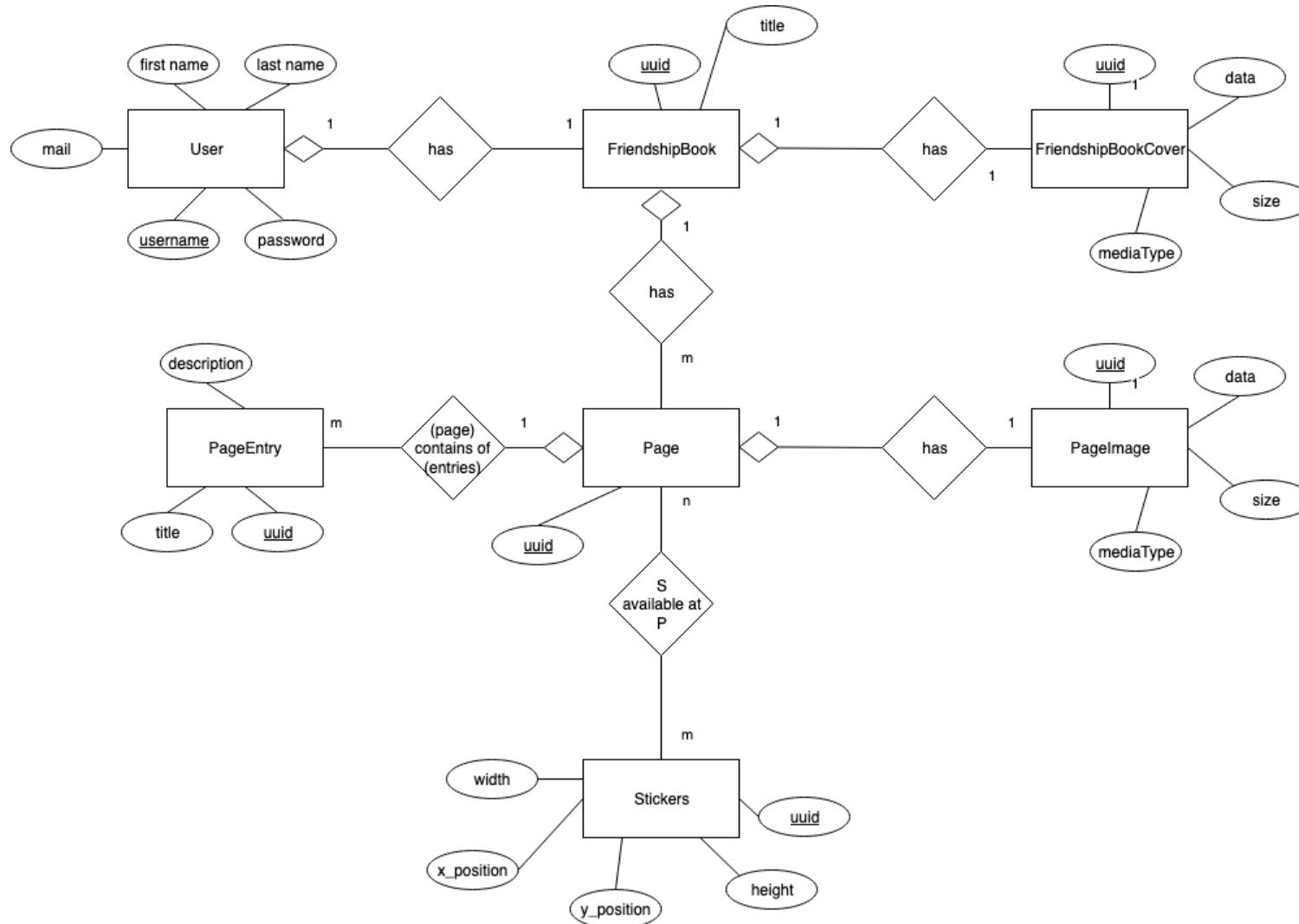
Powered by yFiles



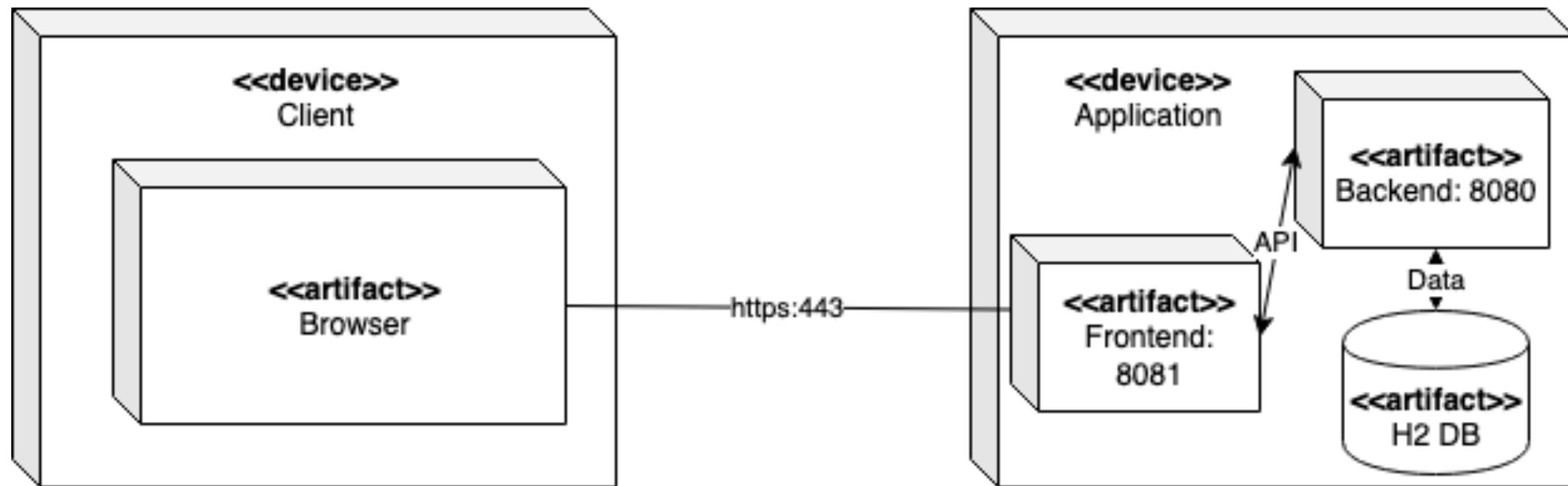
CLASS DIAGRAM



ARCHITECTURE – DATA VIEW



ARCHITECTURE – DEPLOYMENT VIEW



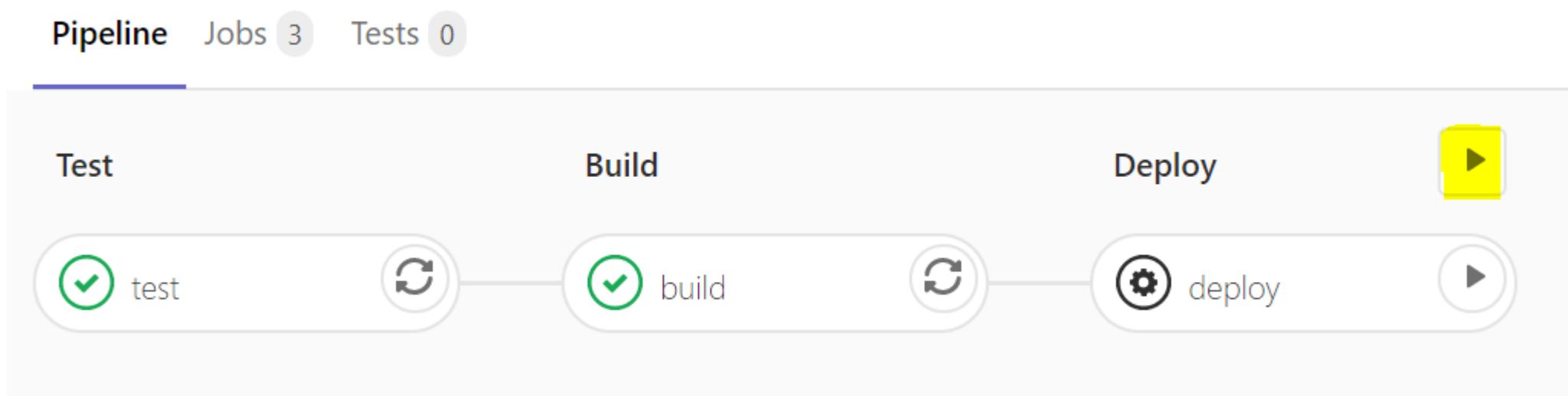
AUTOMATION

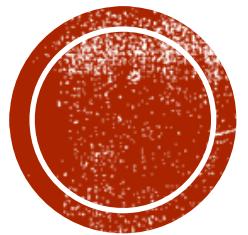
- BDD tests with Cucumber are up and running

```
public class Stepdefs {  
  
    private String answer;  
  
    @Given("I login with {string}{string}")  
    public void i_am_logged_in(String username, String password) throws Exception {  
        TestRestTemplate testRestTemplate = new TestRestTemplate();  
  
        HttpHeaders headers = new HttpHeaders();  
        headers.setContentType(MediaType.MULTIPART_FORM_DATA);  
        String encodeBytes = Base64.getEncoder().encodeToString((username + ":" + password).getBytes());  
        headers.add(HttpHeaders.AUTHORIZATION, headerValue: "Basic " + encodeBytes);  
  
        MultiValueMap<String, Object> body = new LinkedMultiValueMap<>();  
  
        HttpEntity<MultiValueMap<String, Object>> request = new HttpEntity<>(body, headers);  
        ResponseEntity<String> response = testRestTemplate.exchange(  
            url: "http://localhost:8080/api/user", HttpMethod.GET, request, String.class,  
            new LinkedMultiValueMap<>());  
        answer = response.getBody();  
        System.out.println(answer);  
    }  
}
```

AUTOMATION

- Pipeline: automatic Test -> Build -> Deploy with one click





DEMO

BOOKLY - friendship book

