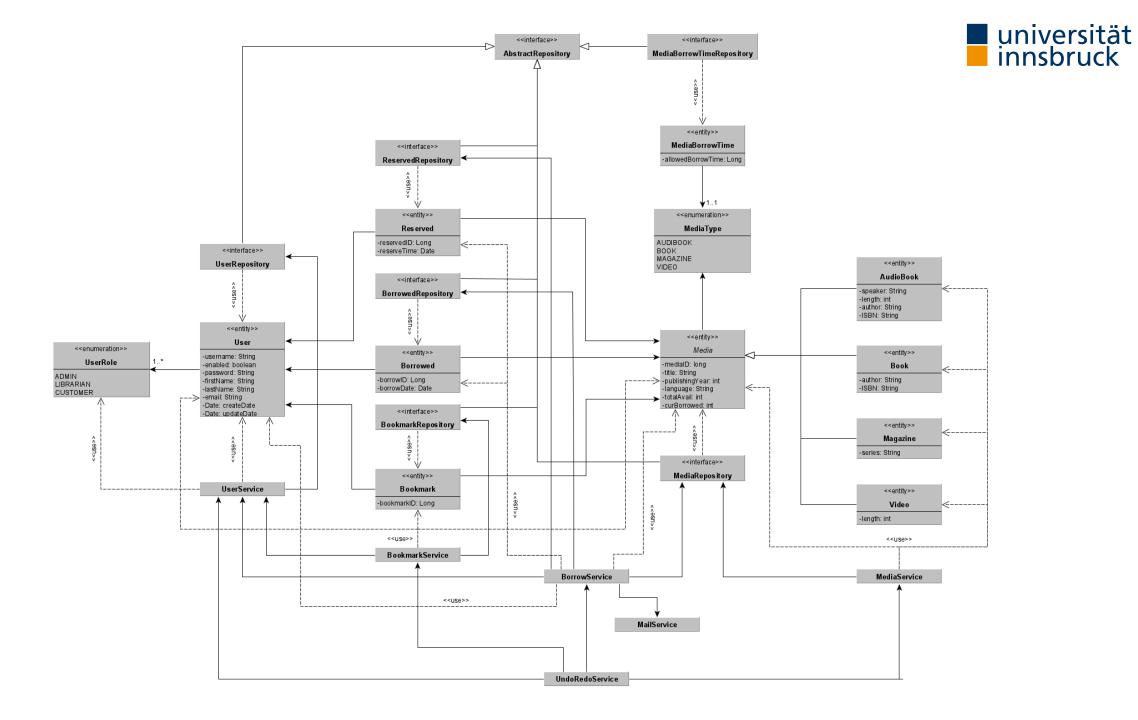


# Library application

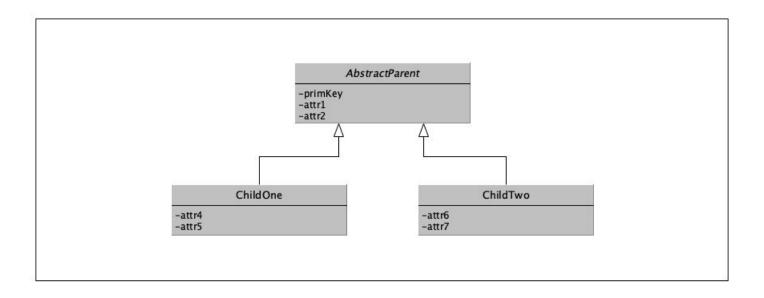
Thomas Klotz, Marcel Alexander Huber, Philip Eckhart, David Spleit, Matthias Thalmann

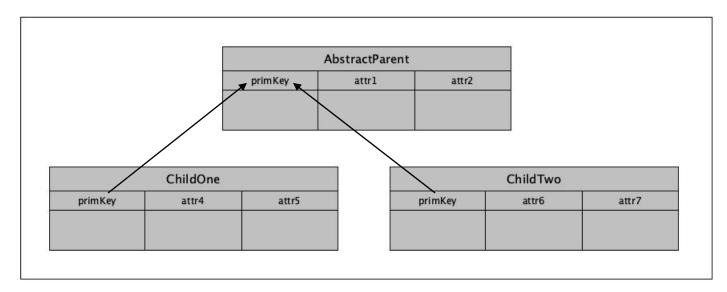


**Technische Details** 









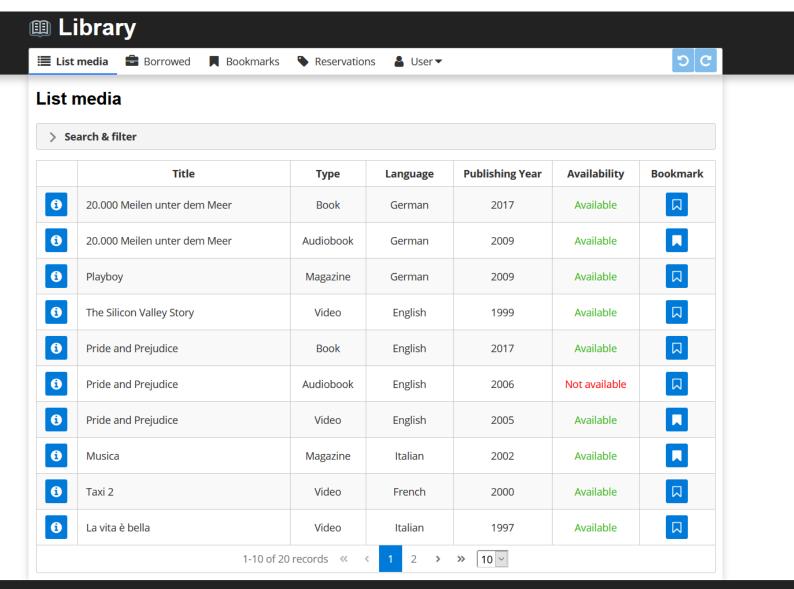


User Interface - Customer



Library	
Username: *  Password: *  Login  A Your session has expired.	
Not logged in	



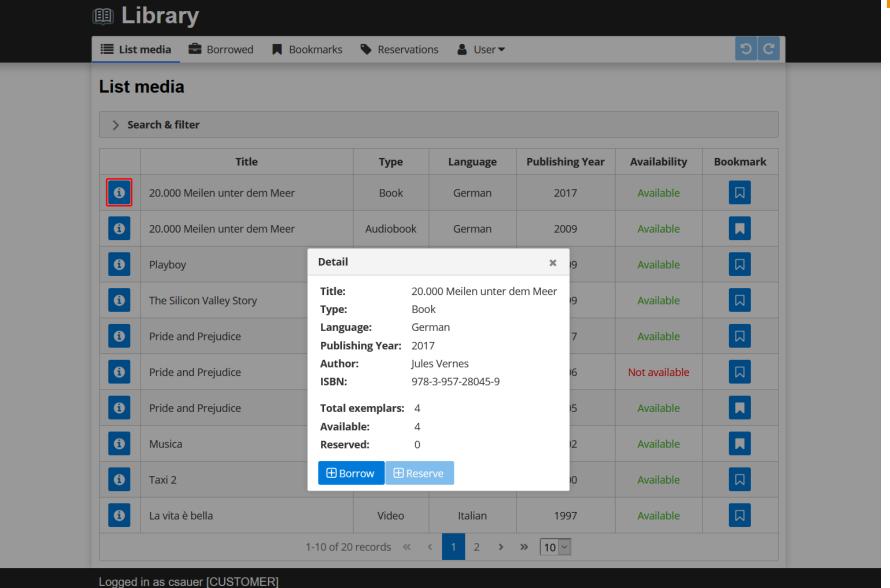


Logged in as csauer [CUSTOMER]

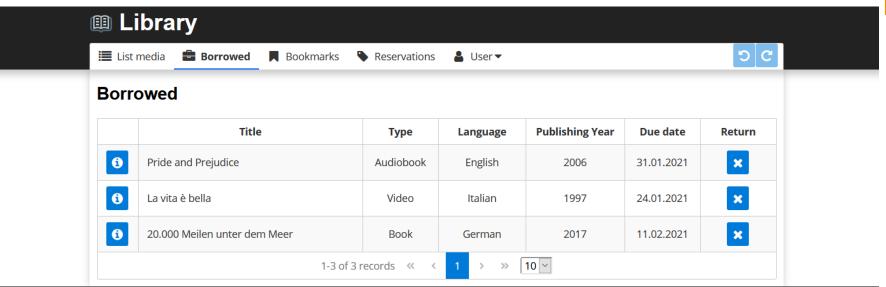


#### Library ာဇ **List media** Borrowed ■ Bookmarks ■ Reservations ■ User ▼ List media ✓ Search & filter Search title: Type: Any German 🗸 Language: Availability: Any Q Search X Clear search Title **Publishing Year Availability** Type Language Bookmark • 20.000 Meilen unter dem Meer Book 2017 Available German • 20.000 Meilen unter dem Meer Audiobook German 2009 Available 6 Playboy Magazine German 2009 Available • Deadpool Video German 2016 Available • Harry Potter und der Stein der Weisen Audiobook German 2011 Available Ein verheißenes Land Book German 2020 Available 6 Duden Available Book German 1989 1-7 of 7 records







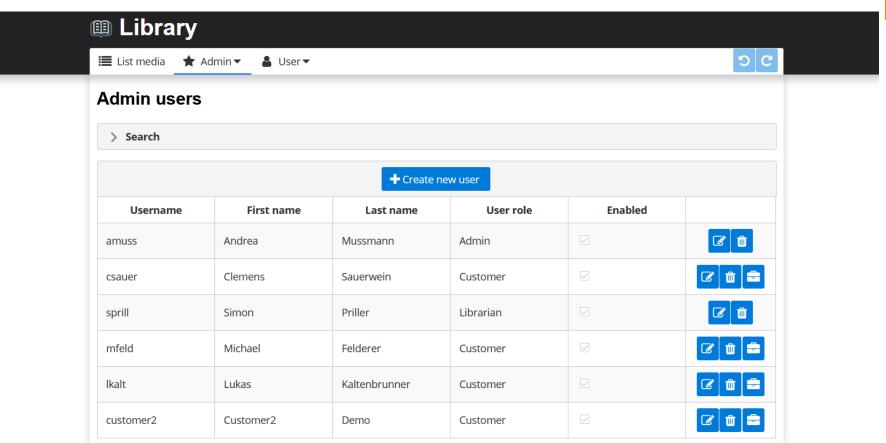


Logged in as csauer [CUSTOMER]



User Interface - Admin





Logged in as amuss [ADMIN]



#### Library

■ List media Admin Super Super

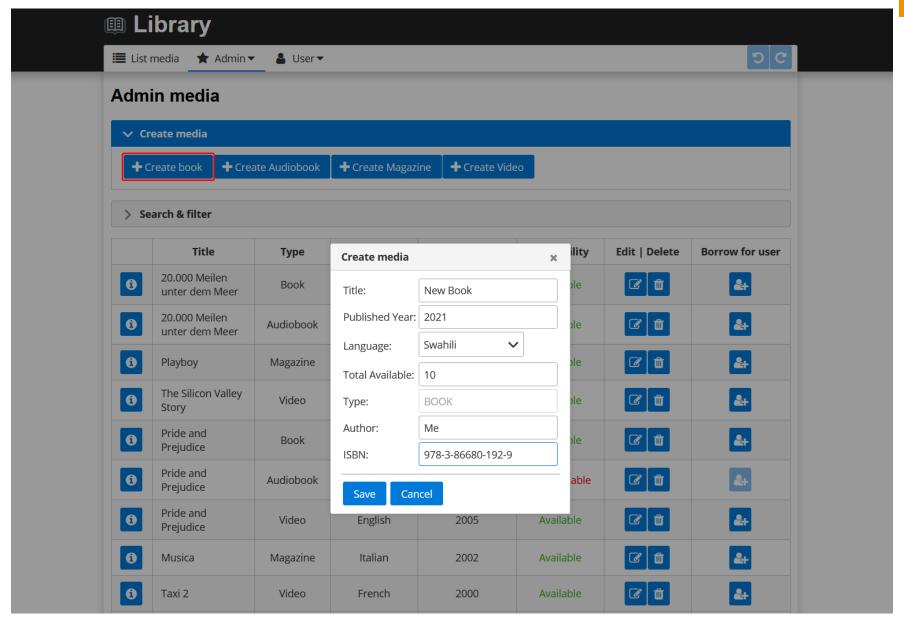
#### Admin media

> Create media

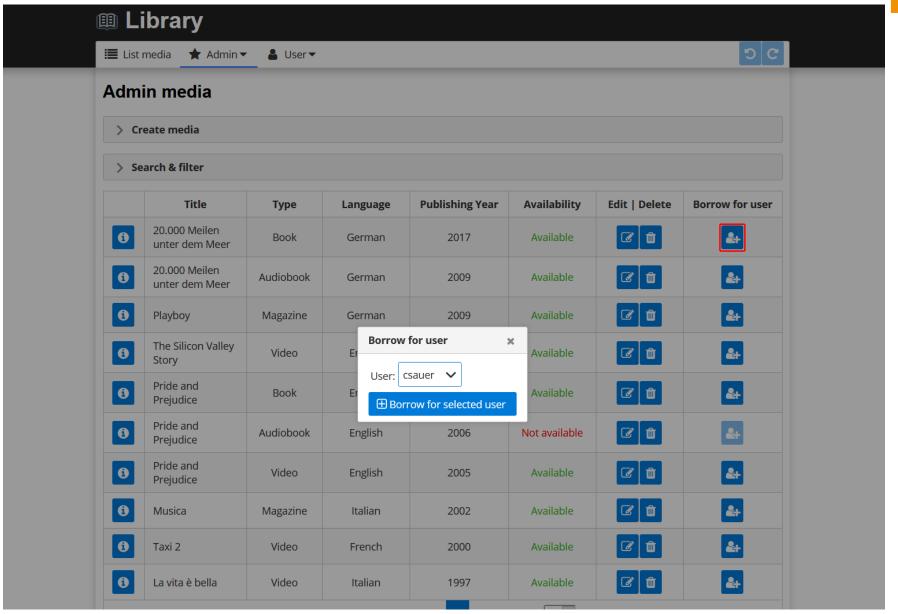
#### > Search & filter

	Title	Туре	Language	Publishing Year	Availability	Edit   Delete	Borrow for user
6	20.000 Meilen unter dem Meer	Book	German	2017	Available		<b>2</b> +
6	20.000 Meilen unter dem Meer	Audiobook	German	2009	Available		<b>2</b> +
6	Playboy	Magazine	German	2009	Available		24
6	The Silicon Valley Story	Video	English	1999	Available		<b>2</b> +
6	Pride and Prejudice	Book	English	2017	Available		<b>2</b> +
6	Pride and Prejudice	Audiobook	English	2006	Not available		<b>2</b> +
6	Pride and Prejudice	Video	English	2005	Available		<b>2</b> +
6	Musica	Magazine	Italian	2002	Available		<b>2</b> +
6	Taxi 2	Video	French	2000	Available		<b>2</b> +
6	La vita è bella	Video	Italian	1997	Available		<b>2</b> +





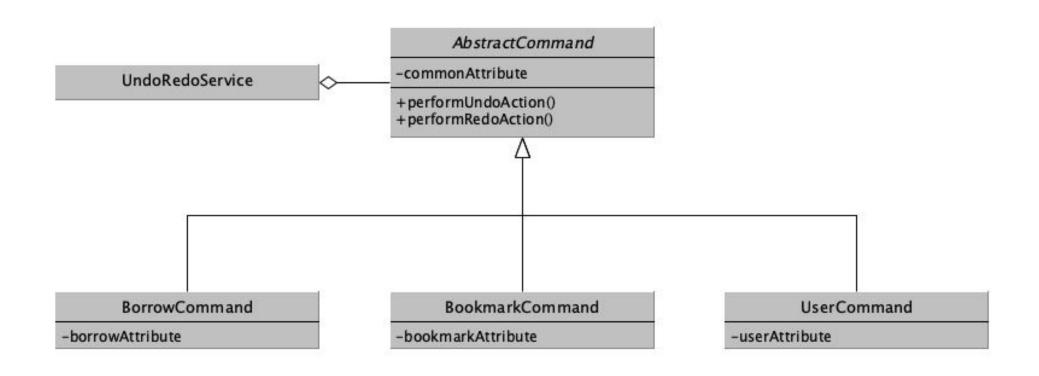




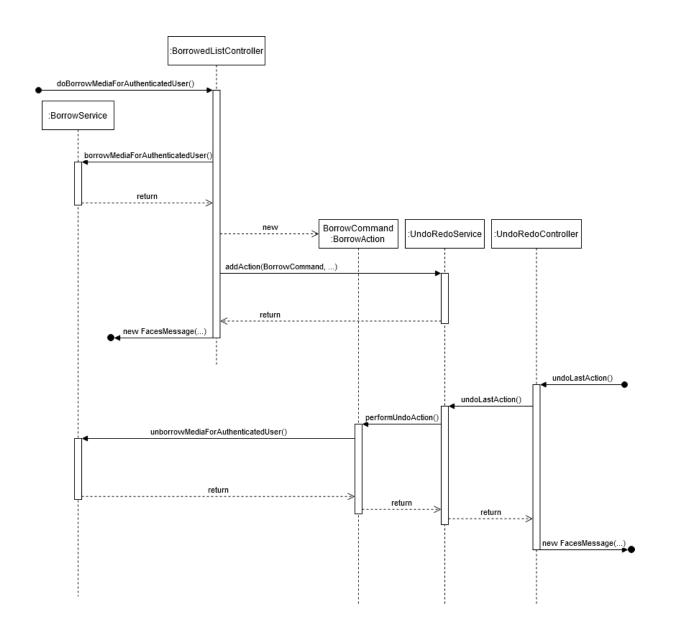


Undo/Redo











```
private class BookmarkAction extends ActionItem {
  protected Bookmark bookmark;
   [...]
  @Override
  protected void performUndoAction() {
     if (type.equals(ActionType.SAVE_BOOKMARK)) {
        bookmarkService.deleteBookmark(bookmark);
     } else if (type.equals(ActionType.DELETE_BOOKMARK)) {
        bookmarkService.addBookmark(bookmark.getMedia());
     } else {
        logger.error("Error while undoing bookmark action, wrong action type");
  [...]
```



## Primefaces vulnerability

Unsere Lösung



```
public class CustomInputTextRenderer extends InputTextRenderer {
    @Override
    public void decode(FacesContext context, UIComponent component) {
        InputText inputText = (InputText) component;
        String clientId = inputText.getClientId(context);
        String submittedValue = context.getExternalContext().getRequestParameterMap().get(clientId);
        if(submittedValue != null) {
            int maxLength = inputText.getMaxlength();
            if (maxLength >= 0 && submittedValue.length() > maxLength) {
                submittedValue = submittedValue.substring(0, maxLength);
            inputText.setSubmittedValue(submittedValue);
```



### Lessons learned



### Code

- Kommentare sofort schreiben
- Einheitliches case-schema (Bsp. camelCase, snake\_case, ...)
- Einheitliche Benennung von Methoden (Bsp. Controller: doCreateMedia, Service: createMedia)
- .editorconfig & .gitignore
- So früh als möglich testen (vor allem bei großen Services etc.)



### Gruppe

Wöchentliche Treffen

- Definierte Zuständigkeiten per Mitglied
- Zeitplan erarbeiten um Abhängigkeiten aufzulösen
- Gemeinsame Linksammlung für Probleme etc. aufbauen



### GIT(-lab)

- Extensives Verwenden von Issues
- Issue Inhalte darin als Kommentare diskutieren (zentrale Diskussion)
- Issues in Commits referenzieren (#<issue\_id>)
- Branches für Issues über GitLab Tool erstellen
- Tests vor dem Committen ausführen (auch Frontend Tests)
- Use GitLab merge-requests



