



merge no-conflict

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Agenda

About the Project

Introducing our theme and motivation behind it

01



Project Overview

Our minimum viable product and any extensions we included

02



Project Timeline

An overview of how we worked over the week

03



04

Diagrams and Tables

ERD and UML diagram, showing relationships between classes



05

Demo and Code Snippets

Postman queries demoing how our code works



06

Conclusions

Challenges and improvements



Online Book-Shelf API

PROJECT OVERVIEW



MVP



EXTENSIONS



WORKING COLLABORATIVELY



NO CONFLICTS!

MVP AND EXTENSIONS



MVP

- CRUD operations on book entities.
- CRUD operations on reader entities.
- CRUD operations on review entities.



EXTENSIONS

- Refactor author property to its own entity.
- Create derived queries.
- Create a book and review DTO.



SECURITY

Implement security via an authentication procedure to allow only users with login to access data.

Project Timeline

DAY 2:

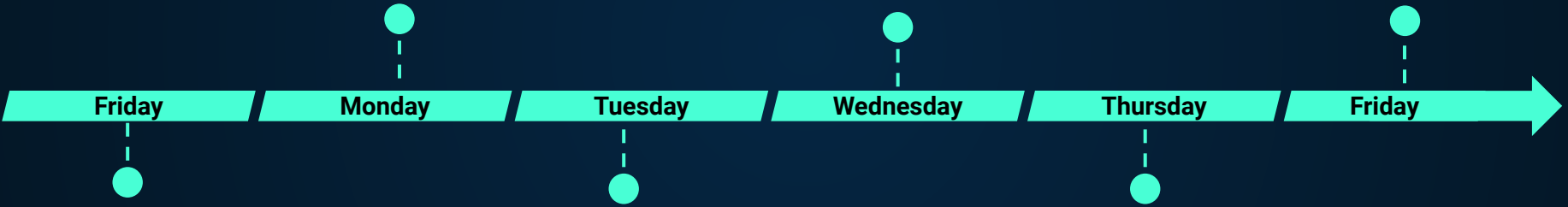
- Started Github repository
- Created Reader, Review and Book class using POJO
- Created data loader

DAY 4:

- Added derived queries
- Changed author into an entity class
- Added authors to DataLoader

DAY 6:

- Finished presentation preparation



DAY 1:

- Brainstormed ideas
- Created an ERD & UML diagram
- Created a Trello board

DAY 3:

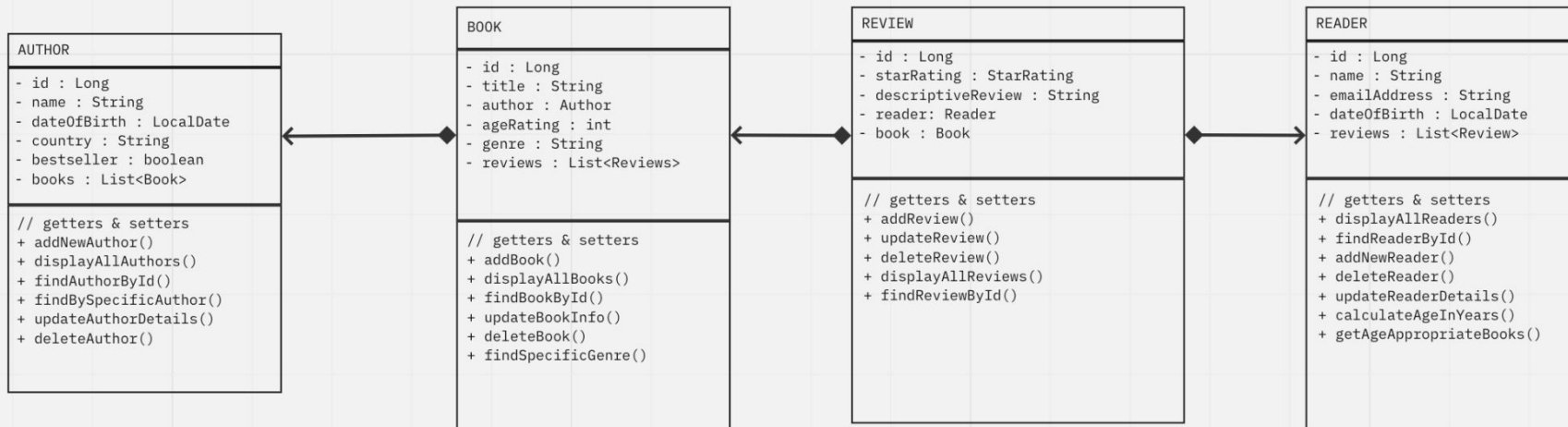
- Created controller classes
- Finished CRUD operations
- Finished MVP
- Tested our queries using Postman

DAY 5:

- Finished and submitted code
- Added README.md file



UML

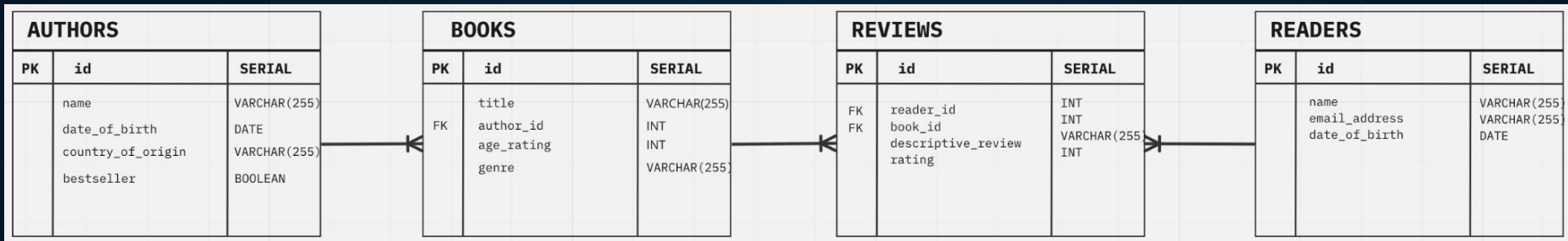




ERD



One-to-Many relationships



Code Snippets

```
List<Author> findByNameContainingIgnoreCase(String likeString);
```

Derived Query

```
public List<Author> findSpecificAuthor(String authorName) {  
    return authorRepository.findByNameContainingIgnoreCase(authorName);  
}
```

Method to find author
from repository.

```
@GetMapping  
public ResponseEntity<List<Author>>  
getAllAuthorsOrSpecificAuthor(@RequestParam(required = false, value = "author")  
String author){  
    if(author != null){  
        return new ResponseEntity<>  
(authorService.findSpecificAuthor(author), HttpStatus.OK);  
    }  
    List<Author> authors = authorService.displayAllAuthors();  
    return new ResponseEntity<>(authors, HttpStatus.OK);  
}
```

Get Request to display specific
author or all authors

Code Snippets

```
public int calculateAgeInYears(long id){  
    Reader reader = readerRepository.findById(id).get();  
    LocalDate birthDate = reader.getDateOfBirth();  
    LocalDate currentDate = LocalDate.now();  
    return Period.between(birthDate, currentDate).getYears();  
}
```

Method to calculate
reader's age in years

```
List<Book> findByAgeRatingLessThanEqual(int readerAge);
```

Derived Query

```
@GetMapping(value =("/{id}")  
    public ResponseEntity<List<Book>>  
    getAgeAppropriateBooks(@PathVariable long id) {  
        return new ResponseEntity<>  
        (readerService.getAgeAppropriateBooks(id), HttpStatus.OK);  
    }
```

Get Request to display all books
age appropriate for our reader

Code Snippets

Delete book method that deletes the book by id and its associated reviews.

```
public void deleteBook(long id) {  
    List<Review> reviewsToDelete = reviewRepository.findByBook(bookRepository.findById(id).get());  
    for (Review review : reviewsToDelete) {  
        reviewRepository.deleteById(review.getId());  
    }  
    bookRepository.deleteById(id);  
}
```

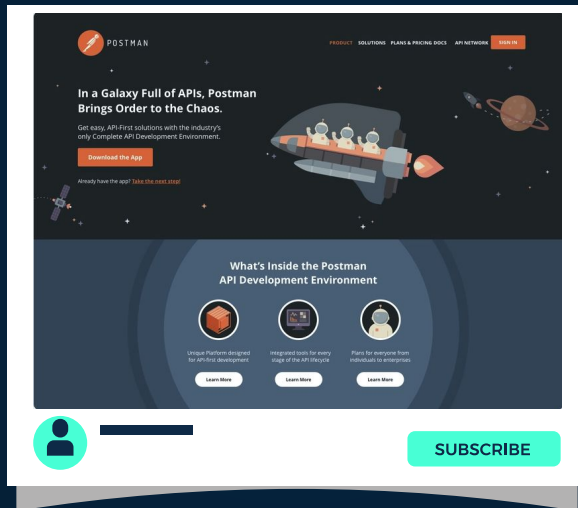
```
@DeleteMapping(value =("/{id}")  
    public ResponseEntity<Long> deleteBook(@PathVariable long id) {  
        bookService.deleteBook(id);  
        return new ResponseEntity<>(id, HttpStatus.OK);  
    }
```

Delete request that removes book by specific id



POSTMAN

A DEMO OF OUR APP



Let's make our way to Postman!

OUR MAIN CHALLENGES



MERGE CONFLICTS

Merging branches initially caused a lot of conflicts and took some time to resolve.

 73 commits



SPRING ERRORS

Initially it was quite overwhelming seeing a long list of errors when we ran our code.



SECURITY

Our authentication implementation worked at first, but on the final day of our project we faced some issues.

Please sign in

Sign in



THANKS FOR LISTENING!

Does anyone have any questions?

FUTURE



MAKING GENRE ITS OWN ENTITY



TESTING OUR METHODS



LOGIN FOR READERS





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