

BDS App

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1 Introduction

1.1 Bookstore Application

My application is called bookstore. Bookstore is supposed to provide user with option to mainly buy books and create his own account.

1.2 How to run

User can run application with:

1. open terminal go to project root directory
2. type `mvn clean install` (this will build app to .jar file)
3. `java -jar target\bds-app-1.0.0.jar`

1.3 Getting started

After successfully creating and launching .jar file app will show up on your screen and everything is very intuitive. More is explained in How to use subsection

1.4 Features

1. User can search books by name and look at their details by clicking on them
2. User can create account where he can add all his info about him and look at his order history, everything about him is stored in database his password is stored in safe hashed form via argon2

1.5 How to use

After launching app click on button enter on main welcome screen. After entering you will see bookstore there you can search books by their name. In upper left corner there is Sign in button after clicking on it new sign in window will pop up. It will ask you for your username and password if you don't have account there is option to create new account. After clicking on create new acc new window will pop up asking for username and password after doing so app will pop new window saying user was successfully create after this you can go back to sign in window and enter your account information. When you sign up you will see your profile there you can insert data about you, view your order history or edit old user information you can also see your current data like name, address info, and contact info. After successfully signing in you can go buy books. You can do so by clicking on book of your liking and new window will show up there you can see all info about book like name, author, number of pages, price, intro, genre, publisher if you find book that you like you can click on buy button new window will pop up asking what type of shipping you want after choosing you successfully bought book that you can see in your account under order history. If you aren't signed up and try to do so app will ask you to sign in otherwise you cant buy books.

2 Goal

My goal was to create app for BPC-BDS in first project I choose bookstore database, in second I did mainly sql queries and security and settings of our database in third project I was supposed to combine all of those and create bookstore application. My app was supposed to give option to search books, buy them and to create account for user all of those are pretty much functional you can search through books, buy them and create new account where you can insert data about you and everything is connected and stored in database. Overall I'am pretty happy how app looks even though there is a lot of things to make better more in **Improvements** section.

3 Troubleshooting

When creating account and entering info about you when you click on insert data be aware when you enter email there must be @ is that string. When entering telephone, postal code, street number, house number if you type character other

then number it wont work and app will ask you to correct yourself. When buying book make sure that you are signed up otherwise app will not let you.

4 Improvements

First thing i would improve is overall design of app this is my first time working with javafx. If i work on similar project in future i would like app to look better also I should probably learn and use more css so app is looking how app should look in 2023. On next project i would thing more about how things should work and look before creating app. When I started this project it was more like lets make enter screen, okay nice now probably lets create bookstore okay lets create account window etc. It's also important so I think about how to organize classes before making them so then i don't have to think about how to connect this class and this after 2 days of working on something else because I could just thing about how to make it at first. There are lot of things I could improve but I got a lot of experience from this project and I hope it made me a little better programmer.

5 How things work

There are views basically classed that have all info about something lets say customerBasicView this class have store everything about him like name, address, contact, password. Then you have .fxml those are GUI files how my app works there are buttons are tableviews and label those .fxml files are then conencted to their controllers that controll when user does something on that window like click on that button or type something somewhere. At last there are repositories that take care of communicating with database these are sql queries. There are also files like application.properties and DataSourceConfig those take care of connecting with database at first and connecting when making sql queries.