BDS_project_3

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1 Application description

This is the the third project assignment for subject BPC-BDS on BUT-FEEC with the goal to create a book store javafx app which is connected with PostgreSQL database what was implemented in bds-project-assignment-1. This app was build according these requirements BDS Assignment 3. In this application customer can login to the app when is logged in he/she is able to view book catalog and edit his/her information (first name, last name,...) with the address.

2 Application GUI

Whole application is styled to the Dracula dark theme.

2.1 Login

Customer has to enter correct email and password to be proceed to the main application. When user press button login then in the database is looking for specific email if it is found then we are getting password hash and salt for the specified email. For verification correct entered customer's password hash and salt is used. The password is verified by library Bcrypt. This application is created for users what will want to view book catalog. Feature for buying book will be implemented in the future.
Components for 1:

- **Email Text Field** Input for entering customer email.

- **Password Text Field** Input for entering customer password.

- **Login Button** When is pressed then validation system is initiated.

2.2 Menu

When customer is logged in then can edit his/her profile and view book catalog.
Components for 2:

- **Book catalog Button** When is pressed then Book catalog GUI is shown. Current GUI is closed.

- **Edit profile Button** When is pressed then Profile edit GUI is shown. Current GUI is closed.

- **Logout Button** When is pressed then Login GUI is shown and customer is logout by the system. Current GUI is closed.
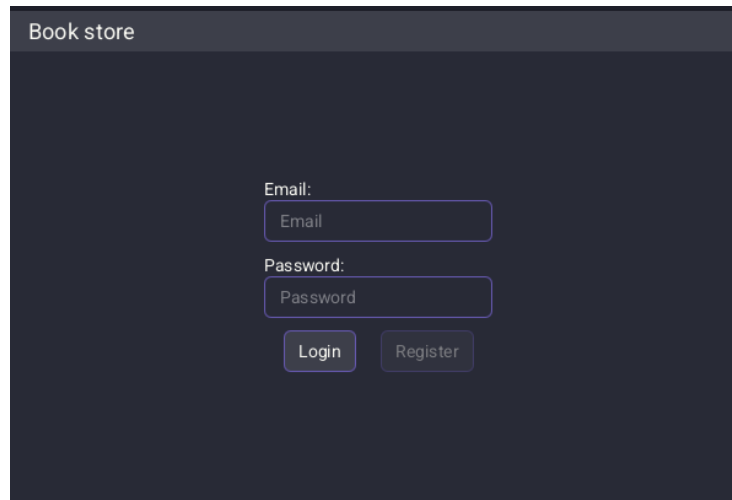
Figure 1: Login GUI

2.3 Book catalog

Here we can view all books which are in the database, customer can sort by the selected column and filter by book title. For each book can be seen in detail view. **Components for 3:**

- **Book Table View** Table for individual book which can be sorted by each column.

    - **Title Column** Title.
    - **Genre Column** Genre.
    - **Publication Date Column** Date when book was published.
    - **Publisher name Column** Name of the publisher.
    - **ISBN Column** Special identifier.
    - **View Button** When the button is pressed then detail view is shown of selected row.
    - **Filter Text Field** In this filter the title can be filtered.
    - **Logout Button** When is pressed then Login GUI is shown and customer is logout by the system. Current GUI is closed.
    - **Menu Button** When is pressed then Menu GUI is shown. Current GUI is closed.

2.4 Book view

Detail view for a book, where can be seen each information and author. **Components for 4:**
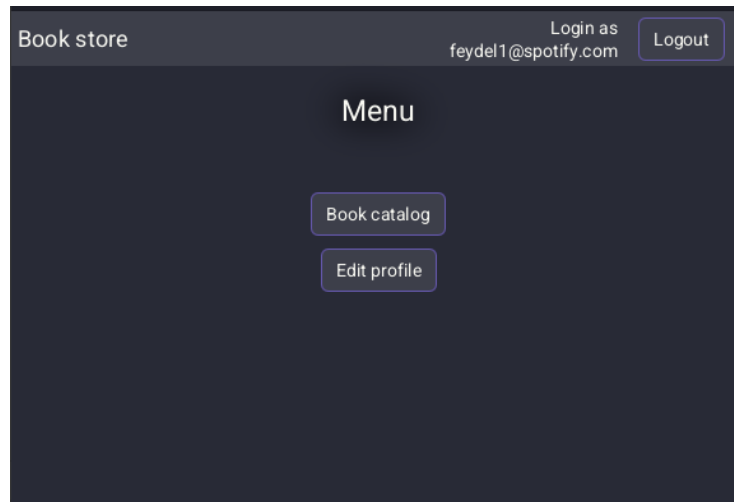
Figure 2: Menu GUI

- **Detail Table View** Each information is here listed.

  - **Name Column** Each column names.
  - **Value Column** Values for column names.

- **Author Table View** Authors are listed.

  - **First Name Column** Author's first name.
  - **Last Name Column** Author's last name.

- **Logout Button** When is pressed then Login GUI is shown and customer is logout by the system. Current GUI is closed.

- **Menu Button** When is pressed then Menu GUI is shown. Current GUI is closed.

2.5   Customer edit

View where customer can edit his/her details. In the address table can be selected address for edit.
Components for 5:

- **First name Text Field** Input for customer's first name.

- **Last name Text Field** Input for customer's last name.

- **Email Text Field** Input for customer's email.

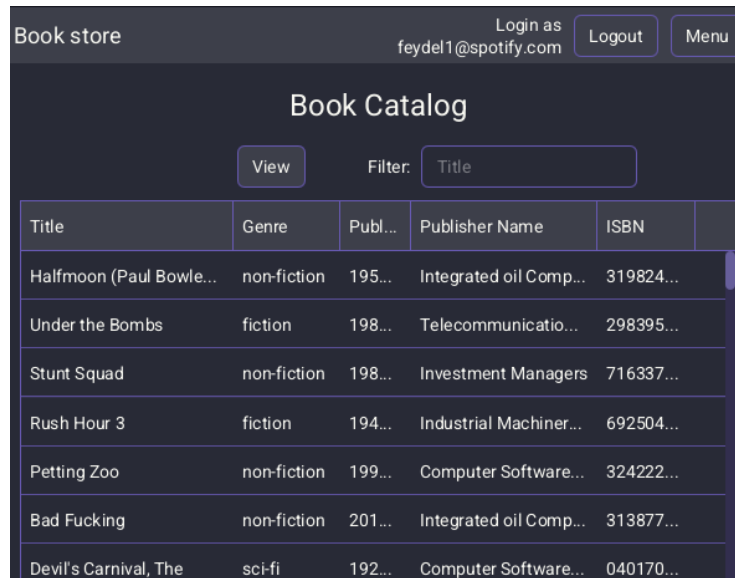- **Phone number Text Field** Input for phone number.

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Figure 3: Book catalog GUI

- **Update Button** When is pressed the customer's first name, last name, email and phone number is updated.

- **Address Table View** Table for addresses. Each column can be sorted.

  - **Street name Column** Column for street name of city.
  - **Street number Column** Column for street number.
  - **City Column** Column for city.
  - **Country Column** Column for country.

- **Edit address Button** When is pressed then address edit is shown with select address and state is set for edit. Current GUI is not closed

- **Delete address Button** When is pressed then for selected row is connection between customer and address is deleted.

- **Add address Button** When is pressed then address edit is shown and state is set for create.

- **Update address table Button** When is pressed then address table is updated.

- **Logout Button** When is pressed then Login GUI is shown and customer is logout by the system. Current GUI is closed.

- **Menu Button** When is pressed then Menu GUI is shown. Current GUI is closed.

Figure 4: Book view

2.6 Address edit

View where customer can edit or create his/her address. **Components for 4:**

- **Country Text Field** Input for country.

- **Street name Text Field** Input for street name.

- **City Text Field** Input for city.

- **Street number Text Field** Input for street number.

- **Create/Edit address Button** When is pressed then address is created or edited based of current state.

Figure 5: Customer edit GUI

Figure 6: Address edit GUI