SOFTWARE ENGINEER INTERN
PORTFOLIO

BAGAS PANGESTU

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Bagas Pangestu

Developer

Contact

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in linkedin.com/in/bagas-pangestu/

github.com/bagasbest

bagas_best

Skills

80% **Java**

60% **PHP**

75% **HTML/CSS**

85% **UI/UX**

45% **Python**

80% **C++**

80% **MariaDB**

Personal Skills, Hobby

Personal Skills: Communicative, Work Hard, Responsible, Honest, and Can be Trusted.

Hobbies:

PROFILE

I am passionate about Software Development especially Android Software Development, for the past two years, I have learned Software engineering in my campus Institut Teknologi Sumatera.

In the past two years I have developed several application software such as desktop-based software, web-based software, and mobile-based application, one of best software I have developed is

"*ITERA Gallery Inventory and Transaction System*", which got highest score on final task Java Object Oriented Programming.

EDUCATION

2005 -2011 SD Negeri 1 Rejosari
Elementary School

2011 – 2014 SMP Negeri 10 Kotabumi
Junior High School

2014 – 2017 SMA Negeri 1 Kotabumi
Senior High School

2017 – Today Institut Teknologi Sumatera
Informatic Engineering

EXPIRIENCE in PROJECT

2018 - *ITERA Course Value Transcript Program*
Project Member, Flow Designer, Debugger, Tester

2018 - *Brain Challenge Games*
Project Leader, Flow Designer, programmer, and debugger

2019 - *ITERA Gallery Inventory and Transaction System*
Project Leader, Database Administrator, Front-end.

2019 – *Website Pekon Way Harong*
Developer

2019 – *Simple Lapor (web-based application)*
Project Leader, Back-end Developer

2019 – *Boekoe (Mobile application)*
Project Member, UX researcher, UI/UX Designer

2020 – *Aplikasi Akademik ITERA (Mobile Application)*
Developer

EXPERIENCE IN PROJECT

ITERA Course Value Transcript Program

ITERA Course Value Transcript Program is my first project since I study in ITERA, this project was created in 2018 present for Algorithm and Programming Course.

Purpose of this project is automatically calculate the value and output as an index automatically in accordance with the credits stated without calculate it manually, I hope it can help teacher or lecturer to input value.

Image 1. Home Screen "*ITERA Course Value Transcript Program*"

ITERA Course Value Transcript Program made with C++ programming language which my first programming language I learned in ITERA, and it is made using Dev C++ IDE.

This project was developed by three people in which I had the role of designing a Flow Diagram of the running process on the program, I also did debugging on the program if the program did not give expected output.

Link Project:

https://github.com/bagasbest/ITERA-Course-Value-Transcript-Program

Image 2. Value Transcript of several Course

Brain Challenge Games
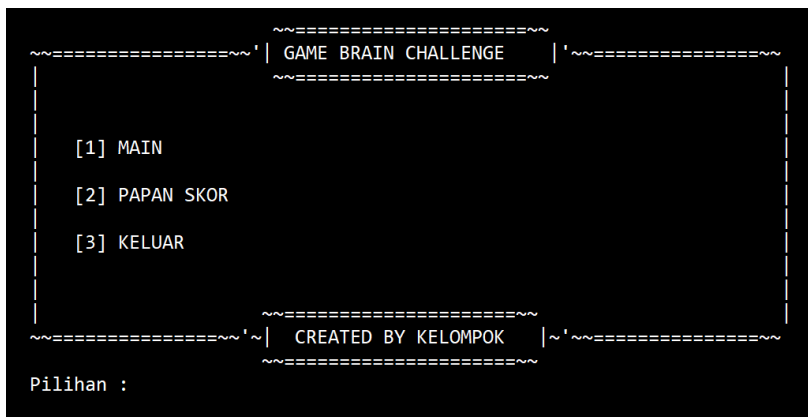
Image 3. Home Screen "Brain Challenge Games"

Brain Challenge Games was developed by "Kelompok Kece" for Algorithm and Date Structure in final task, this project was developed by four people with different role.

The purpose of this project is help player to increase their ability to remember something.

I take role as a programmer and flow designer, my task to make sure the game run without bugs.

Brain Challenge Games is implementation of *Queue-List Date Structure* which is as a player we should remember how much stars (*) available in one scenario.
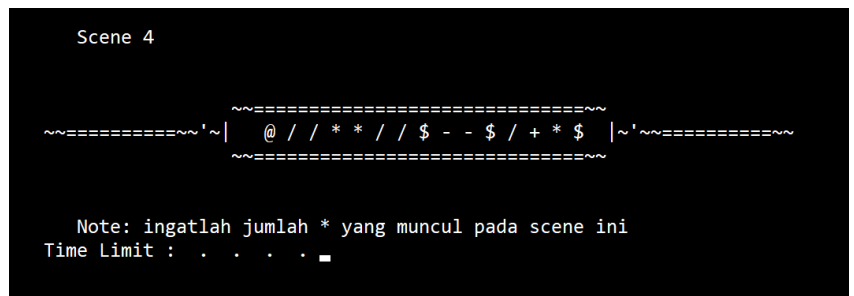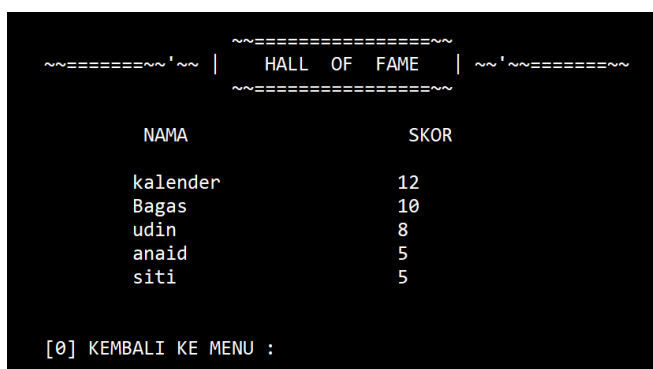

Image 4. Game User Interface

Image 5. Hall Of Fame best player

Brain Challenge Games have a feature "Hall Of Fame" where player's name will be listed, if player have higher points than other player in Hall Of Fame. I used external files to save name and points and return it back if called.

Brain Challenge Games made with C++ programming language, and it is made using Dev C++ IDE.

Link Project :

https://github.com/bagasbest/Brain_Challenge_Games

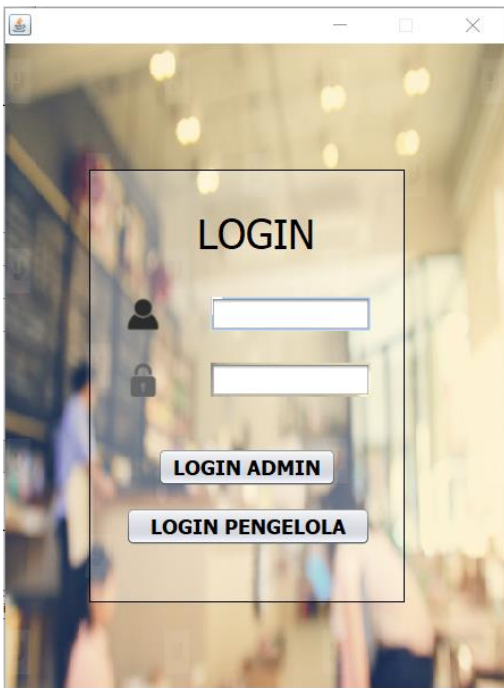## ITERA Gallery Inventory and Transaction System

Image 6. Login Page UI

ITERA Gallery Inventory and Transaction System was developed by three people, where I take role as a Project Leader, Database Administrator, and Front-end Developer.

The purpose of this project is help Gallery ITERA to make efficient product management and transaction system.

Before we developed ITERA Gallery Inventory and Transaction System, first of all we need brainstorming about what problem is happening at ITERA at the moment, and we encounter a problem that in one of the ITERA canteens (Gallery) they do not have an inventory system, even though there are so many items in the canteen.

After we found the problem, we agreed to take this problem and start to developing software.

We developed software which can manage all of product and transaction in Gallery ITERA.

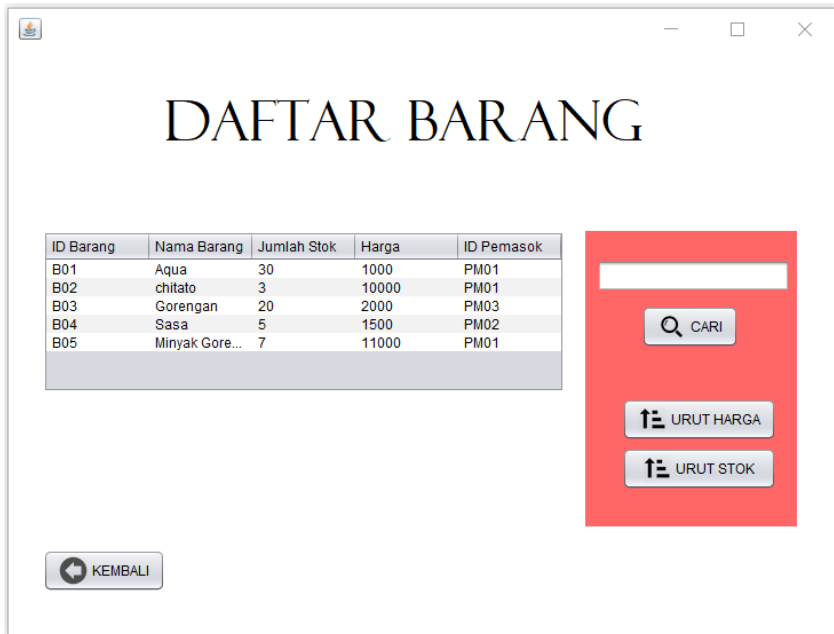We chose Microsoft Windows desktop platform, because it is used by Gallery.

Image 7. We create simple UI in homepage so that user can easy-understood

Before we programming, we need create database for storage many item from products and transaction, we use MariaDB as a Database Management System.

We use MariaDB because easy implemented and we know it. We use Java Database Connection for connecting Database to Software, because we use Java in this case.

Image 7. On the table of product page, we facilitate searching, sorting (based price and stock) ascending.

We got the highest grade in the final Object Oriented Programming task. Because the advantages of the software that we made are **the ideas** we describe help facilitate the Gallery in managing products and transactions, another advantage of the software that we have developed is easy-understood for users, and we use interactive icons
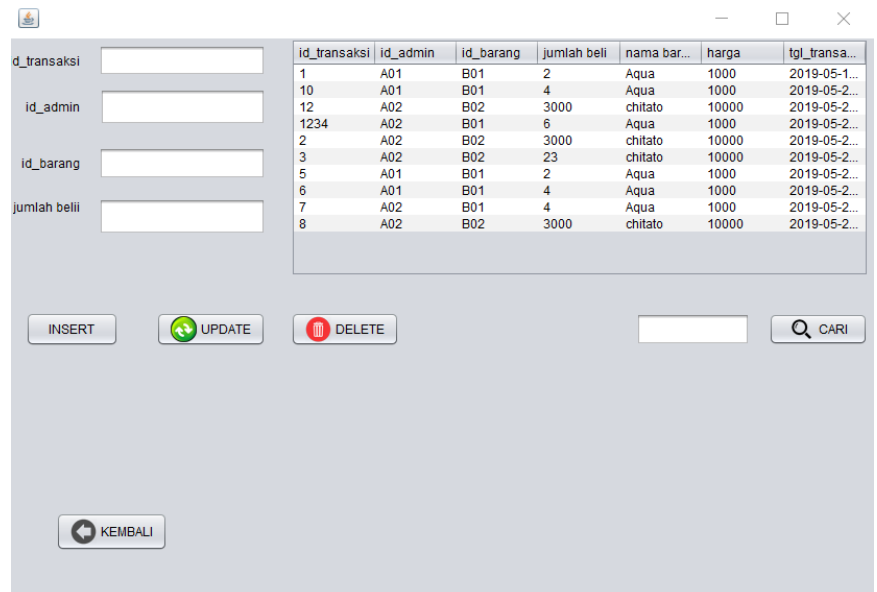
Link Project:

https://github.com/bagasbest/TUBES_PBO_SISTEM_TRANSAKSI_GALERI_ITERA

Image 7. On of the best feature we developed is Transaction System where all of the transaction can be store in Database and it can be tracked.
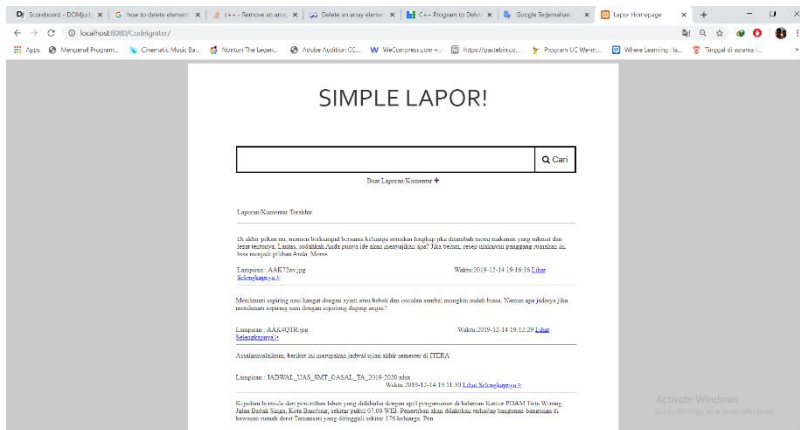
Simple Lapor (web-based application)

Simple Lapor Is web based software I Developed. I use CodeIgniter Framework to develop it.

I Use CodeIgniter because it easy for beginner and friendly with us, I take role as a Back-end Developer and Project Leader.

The purpose of Simple Lapor is to help people report something faster and easier.

Image 8. Homepage Simple Lapor for easy report everywhere.

User Simple Lapor can review their report and make possible to delete their report if there is mistake.

I hope **Simple Lapor** can sustainable developed, because this media helping many people to report as fast as possible.
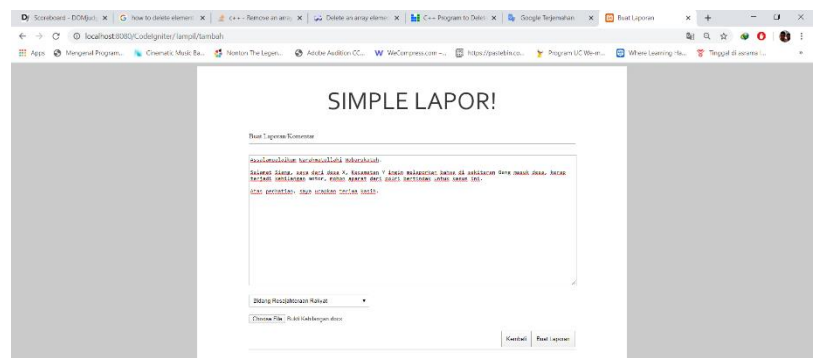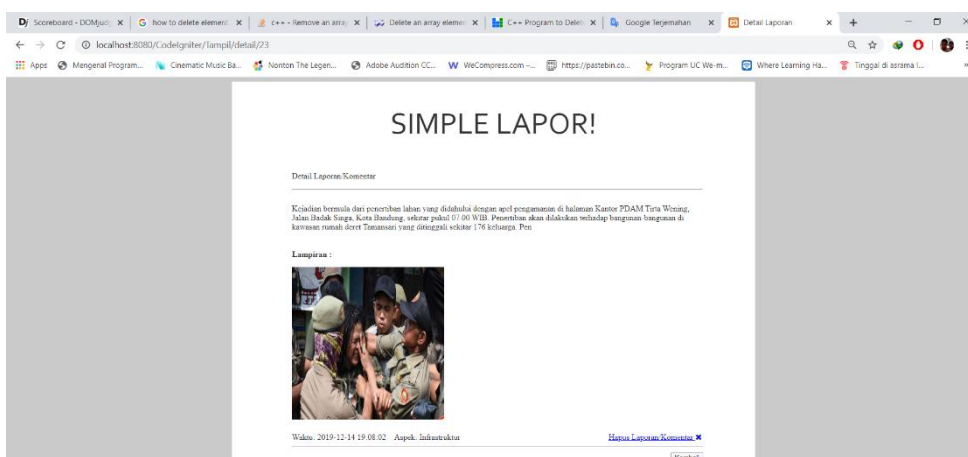

Image 9. on the report page, we focus for easily-understood

Link Project:

https://github.com/bagasbest/IF3144-1920

Image 10. User can review they report, they can delete if necessary

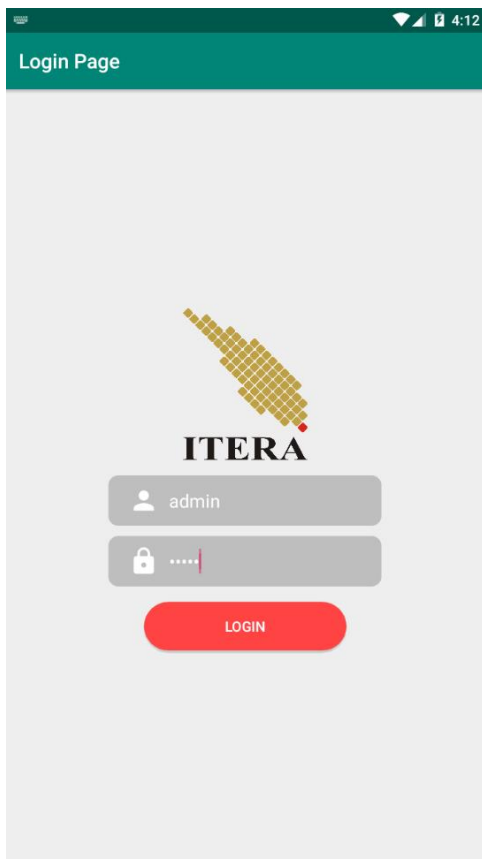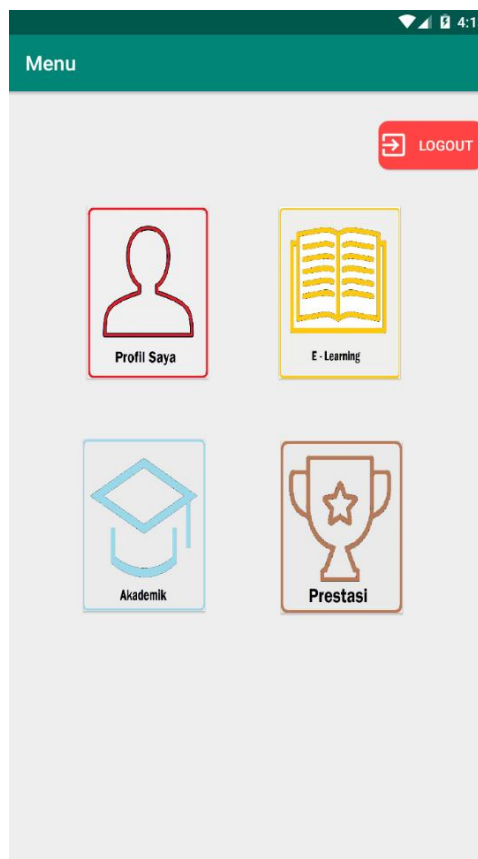# APLIKASI AKADEMIK ITERA

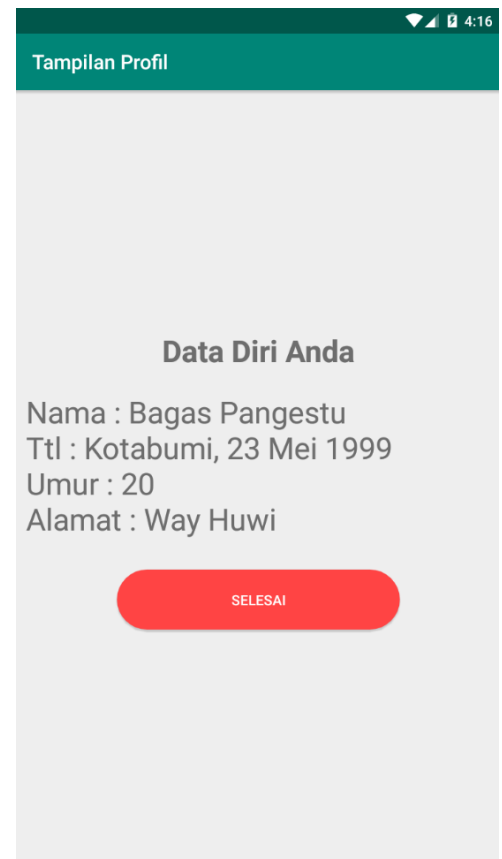Image 11. Login Page UI

Image 12. Application Menu

Image 13. Personal Information

Aplikasi Siakad is is my personal project that I am currently developing. I developed this software using the Java programming language and using the Android Studio IDE.

The purpose of Aplikasi Akademik ITERA is to create mobile version of E-learning and Academic System Institut Teknologi Sumatera.

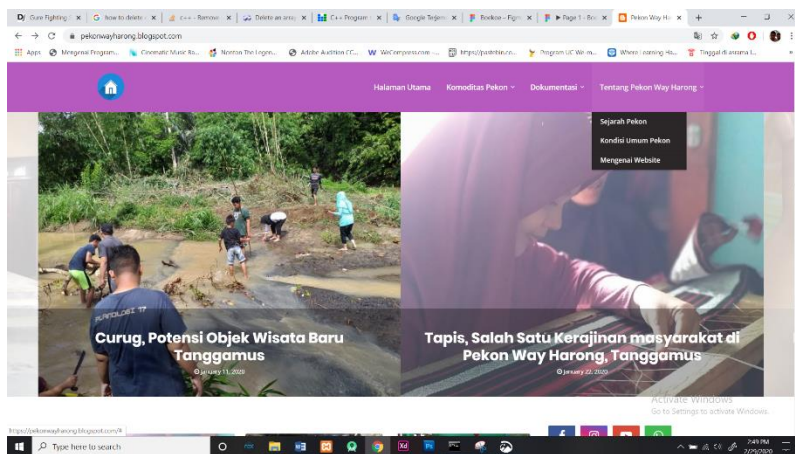I hope this project can succeed and become even better than now.

Link Project:

https://github.com/bagasbest/Aplikasi-Akademik-Itera

Website Pekon Way Harong

Image 14. Homepage Website Pekon Way Harong

Website Pekon Way Harong is one of website I developed using Blogger.

I develope Website Pekon Way Harong since I "Kuliah Kerja Nyata" in Pekon Way Harong, Tanggamus, Lampung 2019, Pekon is similar with village.

I develope Front-end this website using HTML5.

The purpose of this website is to promote youth potential in Information Technology.

This website is also developed with aim to promote abundant of Pekon Way Harong such as Coffee, Chocolate, Banana, Palm Sugar.
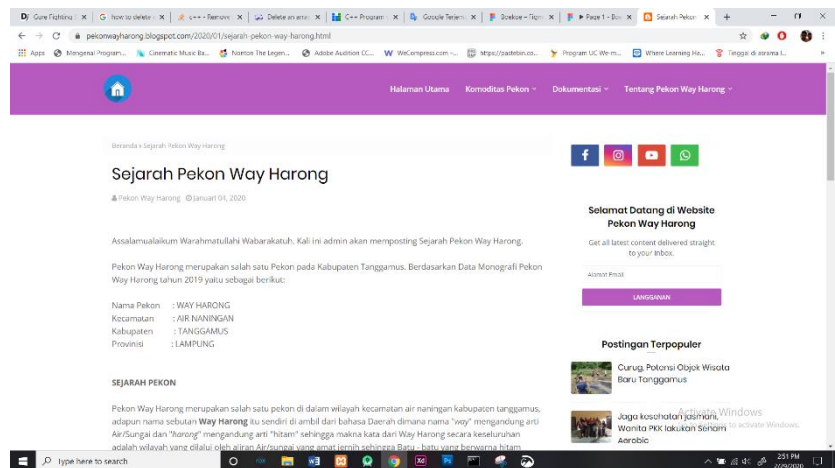

Image 15. One of an article in Website Pekon Way Harong

Link : https://pekonwayharong.blogspot.com/

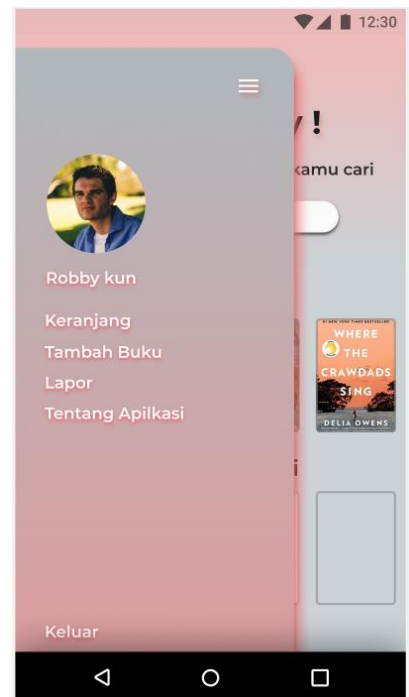Image 16. Flash Screen design

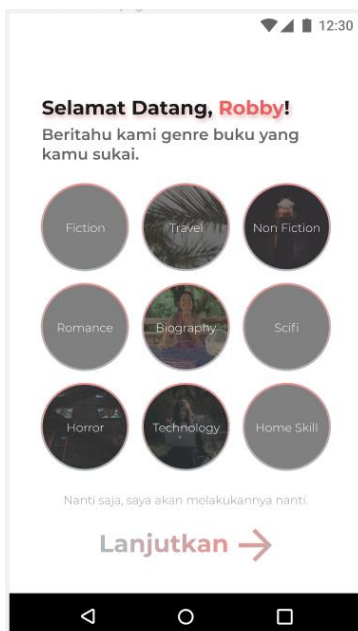Image 17. Homepage design

Image 18. Apps feature design

Image 19. User choice book genre design

BoeKoe is a Mobile Application for helping peole to search their love book, in BoeKoe user can become borrower book and owner book, so simply in this application user can borrow an book or many book in certain period of time, and cost every book is relative cheap.

BoeKoe developed by "Bcod Dev" consist 5 people where I take role as UX Designer, I design using Figma based of survey and usability testing of various people, people like colorful theme, so that I designed.

CERTIFICATE

Image 20. Certificate Finalist GEMASTIK Programming Category

Image 21. Certificate COMPFEST Senior Competitive Programming Contest

Image 22. Certificate FIND IT Senior Competitive Programming