

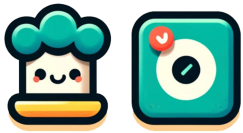
# GROUP G35 (Group 35)

Group members | Anbo Wu (uXXXXXXX)  
Penny (uXXXXXXX)  
Mike (uXXXXXXX)  
Junfeng Gao (uXXXXXXX)  
Dylan (uXXXXXXX)



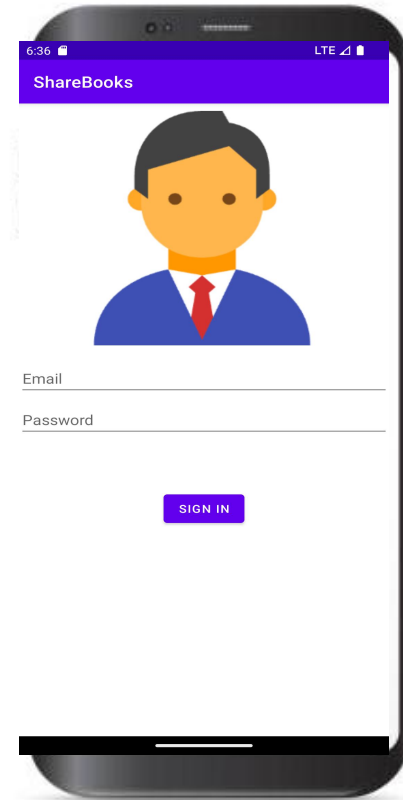
SECURE

LIST



RECIPE

ALERT



# Overview

## ANU Share Book

6:38 LTE

Home

Hello, I am tester

2024-05-17 06:38:35

Test User

LIKE

Empires of the Monsoon

2024-05-17 06:38:40

Test User

FOLLOW

Junfeng Gao

2024-05-17 06:38:41

hello world.

2024-05-17 06:38:45

Chuang Ma

Hello, I am Chuang Ma

2024-05-17 06:38:50

Diao Fu

Hello, I am Diao Fu

Enter message

SEND

Home

6:18 LTE

Search

Default Filter

QUERY ADV.

Gilead

Marilynne Robinson

Story

2004

Spider's Web

Charles Osborne, Agatha Christie

Philosophy

2000

The Four Loves

Clive Staples Lewis

City life

2002

The Problem of Pain

Clive Staples Lewis

City life

2002

Empires of the Monsoon

Richard Hall

Americans

1998

Murder in LaMut

Raymond E. Feist, Joel Rosenberg

Americans

2003

Jimmy the Hand

Raymond E. Feist, S. M. Stirling

Story

2003

The Little House

Philippa Gregory

Science

1998

6:44 LTE

Book Detail

Gilead

ISBN: 9780002005883

Pages: 247

Authors: Marilynne Robinson

Published: 2004

Category: Story

Average Rating: 3.85

Ratings Count: 361

Description:

Gilead

10

Like

6:13 LTE

Dashboard

Daily Statistics of Users Activity

Book Distribution by Publication Year

2000 7.5%

1999 5.7%

1998 5.6%

2007 5.7%

2006 18.8%

2005 14.4%

2004 12.7%

2003 11.8%

2002 9.8%

2001 8.1%

6:14 LTE

Profile

User ID

comp2100@anu.edu.au

User Name

Friendly Tutor

User Address

The Australian National University

My fans 2

My following 2

My like 2

My borrow 11

User Biography

About my information

The underlying implementation must also:

I. Make proper use of data structures such as arrays, maps, etc., and fully implement at least one tree data structure taught in this course for organising, processing, retrieving, and storing data.

II. Implement at least three design patterns covered in our course.

III. Retrieve data from a local file (JSON, XML, Bspoken, etc.) or Firebase.

IV. Sufficiently tested for all the unit-testable components with JUnit 4 (excl. non-UI, external services).

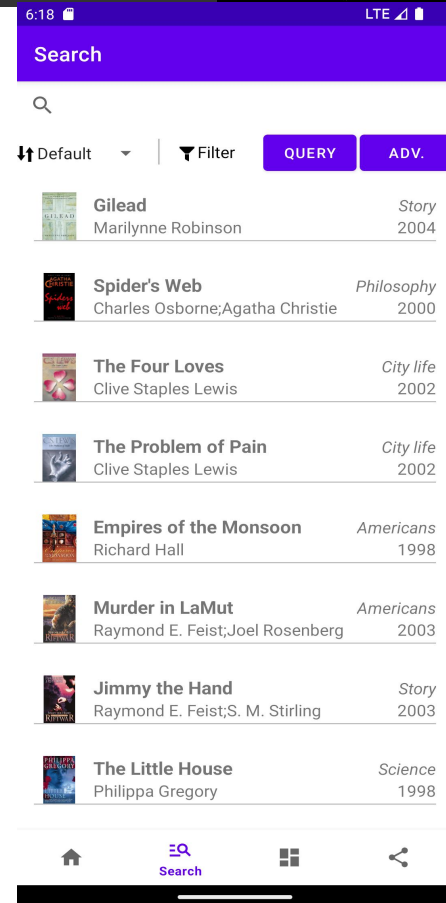
LOGOUT

Profile

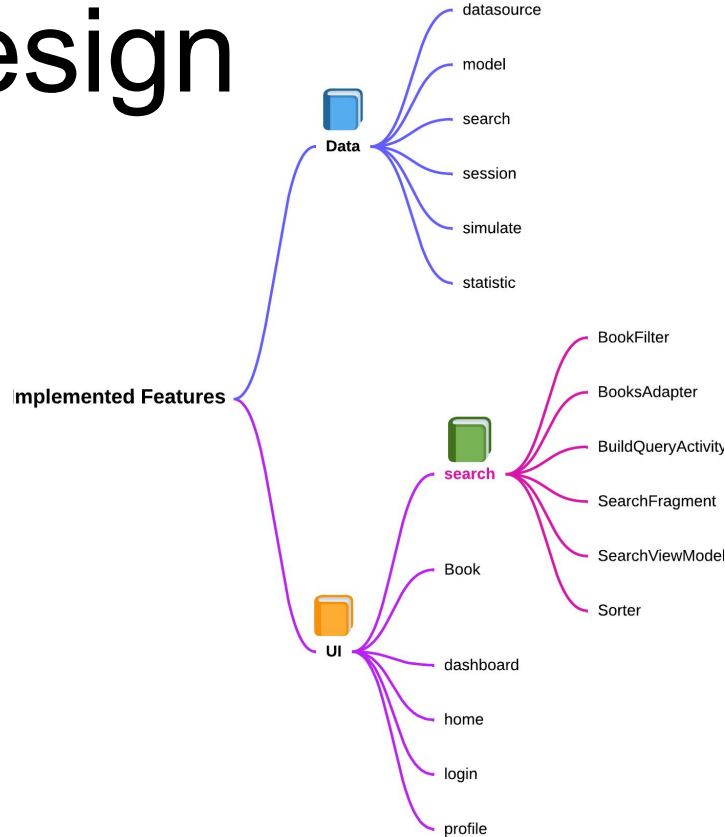
and more

# Search

- Search Mode:
  - Normal Mode: Search for results(name,year) in books
  - Custom Grammar Mode: Auto Invoke, Search by instruction
- Grammar:
  - $\langle \text{exp} \rangle ::= \langle \text{term} \rangle \mid \langle \text{term} \rangle \ \& \ \langle \text{exp} \rangle \mid \langle \text{term} \rangle \mid \langle \text{exp} \rangle$
  - $\langle \text{term} \rangle ::= \langle \text{key} \rangle \mid ( \ \langle \text{exp} \rangle \ )$
  - $\langle \text{key} \rangle ::= \text{ISBN} \mid \text{TITLE} \mid \text{AUTHORS} \mid \text{CATEGORY} \mid \text{YEAR}$
- Example:
  - (CATEGORY:City life|CATEGORY:Graphic Novels)&(YEAR:2001|YEAR:2005)
- Handling Invalid:
  - Parser detect -> UI prompt info
- Filter:
  - By Year, Title and Auth



# Design



# Conclusion

## Q&A

