LaTeX– Template

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COMPUTER SCI/TEC(ENGLISH)20(1)

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Abstruct

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课题执行 (文档修订) 记录表

Table 0-1: 课题执行 (文档修订) 记录表 (按姓氏拼音顺序排列)

日期	版本	修订内容	执行人	修订人
2022.12.6	1.0	创建模板	王旭刚	王旭刚

Contents

1. Item and Enumerate

1.1 itemize

- **itemize** is used to create an unordered list.

1.2 enumerate

1. **enumerate** is used to create an ordered list.

2. **enumerate** is used to create an ordered list.

1.3 nesting

- **itemize** is used to create an unordered list.

    1. **enumerate** is used to create an ordered list.

        – **itemize** is used to create an unordered list.

    2. **enumerate** is used to create an ordered list.

- **itemize** is used to create an unordered list.

2. Ref

2.1 Reference

This is a reference from[1].

2.2 Figure

Single picture is shown in Figure 2-1 and multicolumn shown in Figure 2-2, 2-3. And .svg file should be converted to pdf and shown in Figure 2-4.
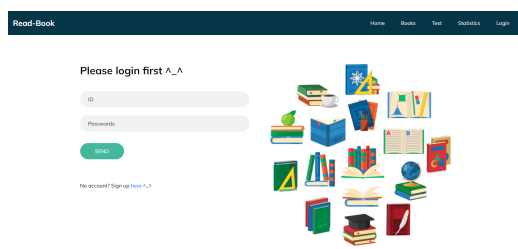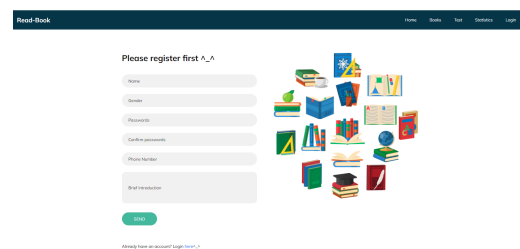

Figure 2-1: Demo

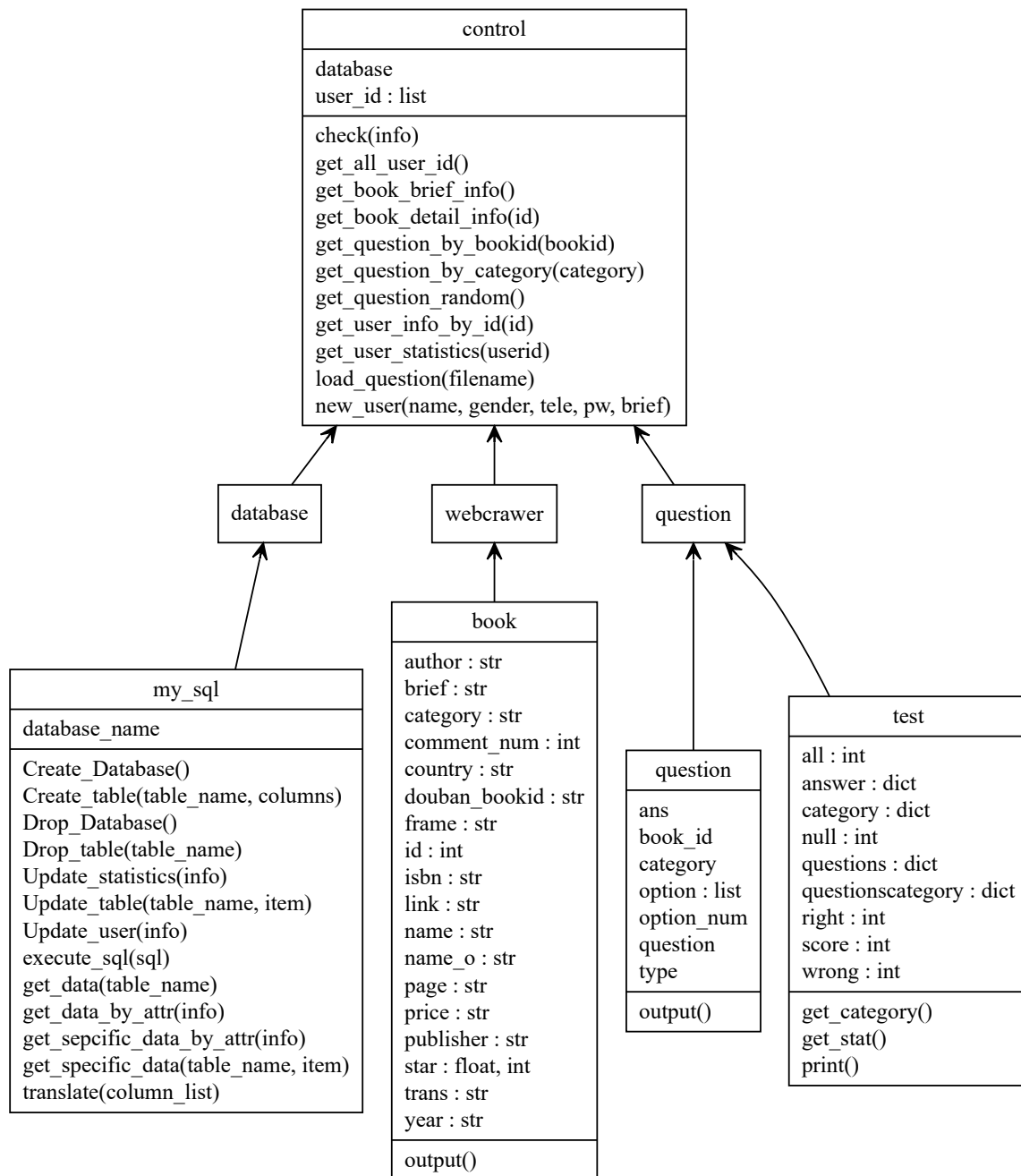Figure 2-2: Login

Figure 2-3: Register

control

database
user_id : list

check(info)
get_all_user_id()
get_book_brief_info()
get_book_detail_info(id)
get_question_by_bookid(bookid)
get_question_by_category(category)
get_question_random()
get_user_info_by_id(id)
get_user_statistics(userid)
load_question(filename)
new_user(name, gender, tele, pw, brief)

database

webcrawer

question

my_sql

database_name

Create_Database()
Create_table(table_name, columns)
Drop_Database()
Drop_table(table_name)
Update_statistics(info)
Update_table(table_name, item)
Update_user(info)
execute_sql(sql)
get_data(table_name)
get_data_by_attr(info)
get_sepcific_data_by_attr(info)
get_specific_data(table_name, item)
translate(column_list)

book

author : str
brief : str
category : str
comment_num : int
country : str
douban_bookid : str
frame : str
id : int
isbn : str
link : str
name : str
name_o : str
page : str
price : str
publisher : str
star : float, int
trans : str
year : str

output()

question

ans
book_id
category
option : list
option_num
question
type

output()

test

all : int
answer : dict
category : dict
null : int
questions : dict
questionscategory : dict
right : int
score : int
wrong : int

get_category()
get_stat()
print()

Figure 2-4: Backend UML Diagram

2.3 Link

http://www.castamerego.com/

2.4 Table

Table 2-2: Table Demo

日期		版本	item1		item2	
			2	3	4	5
序号	0	1	2	3	4	5
	0	1	2	3	4	5

3. Format

3.1 Multicolum

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3.2 Box

3.2.1 Box

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3.2.2 PLAIN BOX

Use Case 1: Login to the System

Primary Actor: Homeowner

Goal in context: To login to the system.

Preconditions: System must be fully configured; Homeowner must have a valid user ID and password.

Trigger: Homeowner wants to login to the system.

Scenario:

1. The homeowner logs onto the *SafeHome Products* website on his PC or opens the *SafeHome* application on his mobile phone.

2. The homeowner inputs his user ID and password.

3. The system displays all major functionalities of the *SafeHome* system.

Exception:

1. If the user ID or password is incorrect, the system will display an error message and ask the user to input again.

2. Surveillance function not configured for this system.

3. An alarm condition is encountered.

Priority: Moderate priority, to be implemented after basic functions

When available: Second increment

Frequency of use: Frequently

Channel to actor: Via the *SafeHome Products* website or the *SafeHome* application

Open issues:

1. Is security sufficient?

2. Maybe we can add a captcha(Completely Automated Public Turing test to tell Computers and Humans Apart) to the login page.

3. When client commucating with server, the ID and password should be encrypted.

References

[1] Yvonne Rogers Helen Sharp, Jenny Preece. *Interaction Design: beyond human-computer interaction.* John Wiley and Sons Inc., 5 edition, 2019. ISBN 978-1-119-54725-9.