Project:Mandarin-Library Automation
2020

SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY

Types of User's

1. Admin 超级管理员
2. Librarian　　图书管管员
3. Reader　　　读者

Reader Function 1.1

- **Reader Can**
  - Login – only after Librarian Register Reader Account with Deposit 300 Yuan
    读者仅当图书管管员完成注册(初始保证金￥300)后才能进行登录操作
    - Default reader Login password 12345678　　默认登录密码为12345678

  - Logout
    读者能进行登出操作

  - Search – With any keywords of the Book
    读者能根据书籍的任意关键词进行搜索操作

  - View　　　读者能够浏览或接收以下信息
    - Borrow history – Books currently taken by him/her　　当前借阅书籍
    - Return history – Books already return <show fine if delayed> 已归还书籍(若有延期，显示罚金)
    - View Total Fine Amount to Pay.　　当前待支付罚金
    - Alerts < Books crossing 30 day's limit> to email　　　书籍到期前将有邮件发送至读者邮箱

Reader Function 1.2

- Reader Can
  - Reserve- Should borrow within 2 hours within reserve else reserve status is cancelled.
    读者能够对书籍进行预约(若该书籍2小时内未被借出，则预约失效)

  - Recovery forget password using email in personal information
    读者能通过个人信息中的电子邮件取回遗忘的密码

  - Change reader's personal information and password
    读者能够修改自己账户的个人信息和密码

Reader Function 2

- Reader Cannot
  - Borrow /Return
    读者不能自行借阅或归还书籍

  - Register themselves
    尚未拥有账号的游客不能为自己注册读者账号

  - Pay Fine themselves
    读者不能自行缴纳罚金。罚金需在图书管理员处缴纳

Admin Function 1.1

- Admin

  超级管理员(以下简称超管)

  - Login –root account

    超管能够登录Mandarin系统

    - Change admin password

      超管能够更改该账户的密码

  - Logout

    超管能够进行登出操作

  - Register Librarian accounts (1 ~m)

    超管能够注册图书管管员账号，无数量限制

    - Default librarian password : 00010001

      图书管管员默认密码为00010001

  - Search and Manage Librarian Account

    超管能够搜索并管理图书管管员账号

    - Edit/Delete

      超管能够编辑/删除图书管管员账号

Admin Function 1.2

- Admin
  - Set/Modify book fine value [default: 1 yuan/ day] : All User's
    超管能够设置/修改书籍逾期罚金[默认为￥1/天]

  - Set/Modify book return period [default: 30 days] : All User's
    超管能够设置/修改书籍归还期限[默认为30天]

  - Set/Modify Reader Security Deposit[default: 300 yuan] : All User's
    超管能够设置/修改读者创建账户时缴纳的保证金[默认为￥300]

  - Help to recovery Librarian password
    超管能够帮助图书管管员找回其密码

Admin Function 2

- Admin Cannot
  - Register Reader or Manage Readers [Edit/Delete]
    超管不能注册或管理读者账户

  - Add Book or Manage books [Edit/Delete]
    超管不能添加或管理书籍

  - Borrow / Return / Reserve
    超管不能借阅/归还/预定书籍

  - Search Book
    超管不能进行搜索书籍操作

Librarian Function

- Librarian Can
  图书管管员

  - Login – Only after registered by admin
    图书管管员账号只能在由超管进行注册后才能进行登录操作

  - Logout
    图书管管员能够进行登出操作

  - Recovery Forget Password- Help of admin
    图书管管员能在超管的帮助下找回密码

Librarian Function

- Librarian Can

  图书管管员

  - Book Management

    图书管管员能进行书籍管理

    - Add Book- Auto Generate Book ID after book successfully ADD

      图书管管员能添加书籍(书籍添加完成后自动生成书籍ID)

      - Add same copies of books in single step

        图书管管员能够一步添加相同的书籍副本

        - Generate barcode = BookID

        PS：条形码将以书籍ID为基础生成

      - Book Location and Price must be added

        书籍在图书馆中所在位置(例：楼层+书架+区号)以及书籍价格需要加入到书籍属性中

    - Delete Book – Book Damage / Book Lost

      在书籍被损毁或遗失后，图书管管员能够删除库中的书籍

      - View Book Delete History- With Librarian Info who deleted the book

        图书管管员能够获得书籍删除记录(记录中需包含删除书籍的图书管管员的信息)

    - Edit Book – Edit Book information or location change details

      图书管管员能够编辑书籍信息

  - Search Book

    图书管管员能进行书籍搜索操作

Librarian Function

- Librarian Can
  - Register Reader information only after 300 yuan security deposit
    图书管管员能够注册一个读者账户(仅当读者缴纳了300元保证金后)
    - Reader login is Phone number and password is 12345678
      读者登录账号为手机账号，其初始密码默认为12345678
    - Edit or Delete Reader Account
      图书管管员能够编辑或删除读者账号
      - Incase of delete, fine amount must be cleared + Books all must be returned
        PS：若要进行删除读者账号操作，读者账号内的罚金须被缴纳且其未归还的书籍须被归还

  - Reader History
    - Borrow and Return Records
      图书管管员能够获得读者借阅以及归还书籍记录
    - Fine Records
      图书管管员能够获得读者罚金记录(缴纳、未缴纳)

  - Lend Book + Return
    - 1 Reader can only keep 3 books
      图书管管员能够为读者受理借阅、归还书籍业务(同一读者账号仅能同时借阅3本书籍)

Librarian Function

- Librarian Can
  - View Library Income History (Daily/Weekly/Monthly)
    图书管管员能够获得图书馆收入记录(每日/每周/每月)
    收入记录分为保证金收入和罚金收入
    - Total Deposit
    - Total Fine

  - Post News
    - Can post important announcement in the homepage
      图书管管员能够向主页发送公告
    - Post management
      图书管管员能够管理显示在主页的公告(增加/删除/编辑)
      - Add /Delete / Edit

Librarian Function

- Librarian Can
  - Book Category

    图书管管员能够添加/编辑书籍类别
    - Add /Edit

  - Book Location

    图书管管员你能够增加/编辑/删除书籍的所在位置
    - Add/Edit/Delete

	Top 10 General Categories (% of Books >$20)
1	Music
2	Military Science
3	Bibliography, Library Science
4	World History
5	Fine Arts
6	Philosophy, Psychology, Religion
7	Technology
8	Auxiliary Sciences of History
9	Language & Literature
10	Geography

Mandarin –Must

1. English User Interface
   必须包含英文用户界面
2. Use Product Logo
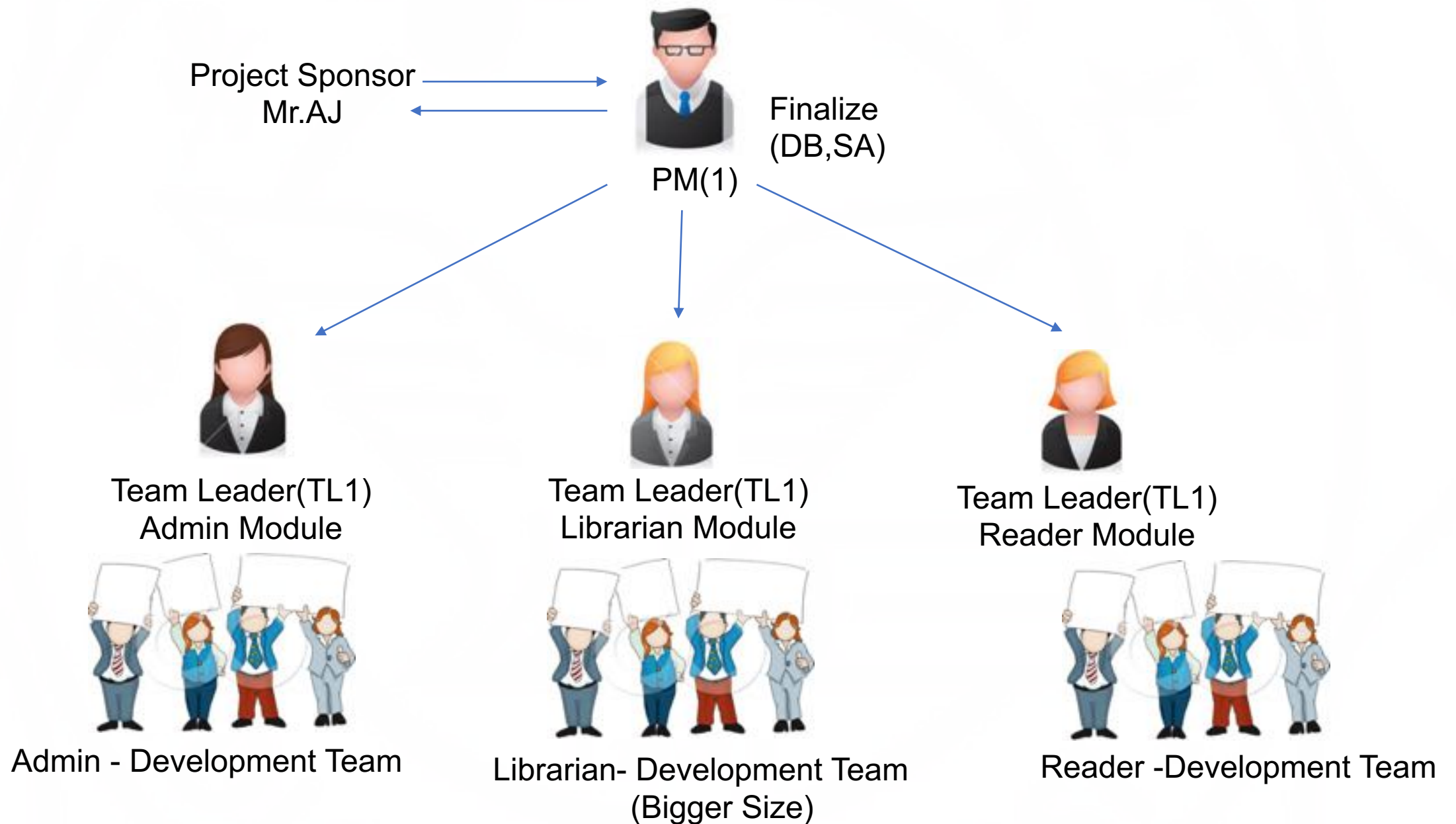   必须使用产品LOGO
3. Header and Footer
   必须拥有页眉和页脚
4. Homepage
   主页须有功能：
   1. Search   搜索
   2. Login   登录
   3. News –Post   公告
   4. Beautiful GUI   漂亮的图形用户界面
5. Test Empty/Wrong Values 须测试空值/错误值
6. Hide Admin login page   隐藏Admin登录界面(安全性)

Project Sponsor
Mr.AJ

Finalize
(DB,SA)

PM(1)

Team Leader(TL1)
Admin Module

Team Leader(TL1)
Librarian Module

Team Leader(TL1)
Reader Module

Admin - Development Team

Librarian- Development Team
(Bigger Size)

Reader -Development Team

Project: Mandarin Library Automation					
Week1-2	Week3-Week5	Week6-Week8	Week9-Week12 Week10(holiday)	Week13-Week15	Week16
1.Build Project Group(17-20) 2. Select Project Manager 3. Build the Sub-Teams and Project Leaders 4. Understand Product Requirement. 5. UI Design & Architecture 6. Database Design 7. Test Plan	Release 1	Release 2	Release 3	Release 4	Project Demo
	1. Admin Function 2. Librarian Func 3. Reader Func Release 1	1. Admin Function 2. Librarian Func 3. Reader Func Release 2	1. Admin Function 2. Librarian Func 3. Reader Func Release 3	1. Admin Function 2. Librarian Func 3. Reader Func Release 4	

Count	StudentID	Name / Pinyin	Phone	Email	Photo	Role
1	2018303144	Liu Wang	18000000111	liwang@163.com		Project Manager
2						Project Leader -Admin
3						Reader Team
4						Admin Team
5						Librarian Team
6						Project Leader -Reader
7						Project Leader -Librarian
8						
9						

Project Demo:2020/06/04-05

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