

About Quiz System

Quiz System is an app for Mac OSX platform, support Mac OSX 10.11.

I. What is QuizSystem

QuizSystem is an application for examination:

- * store quizzes/examine questions into an host(recognised by IP address);
- * generate examine paper randomly, store examine result into host Database;
- * support subjective questions, comment and review by teachers.

For overview business logic, refer to architecture.

II. How To Use:

This is an utility application to generate paper randomly and keep examination record in server database.

Step 1. Build Mysql database server, install Mysql Database on a host and connect to network.

DataBase essentail: create a database and essential sheets as below, generate and register an Administrator account.

Sheet1: Administrators -- store info of Administrators

id	user	passwords	department	unread
1	F7684885	HJKL:	PSD_NPI_TDE_SMT_FA	0

Sheet2: Administrators_Configuration -- store info of Configuration of department

department	judge	judge_score	single	single_score	multiple	multiple_score	analysis	analysis_score	time	unread
PSD_NPI_TDE_SMT_FA	3	5	2	5	3	5	3	20	120	7
PSD_NPI_TDE_SMT_ST	34	3	2	2	20	2	2	2	2	0

Sheet3: Testers -- store info of Testers

id	user	passwords	name	department	unread
1	F1012885	HJKL:	超级管理员	PSD_NPI_TDE_SMT_FA	7
2	F7686117	2015	隔壁老王	PSD_NPI_TDE_SMT_FA	0

Sheet4: Testers_Record -- store info of Testers's testing record

id	user	name	time	cost	sum	score_obj	timeStamp	unread	score
1	F1012885	Super man	120	30	150	90	201512120000	N	96
2	F7686117	超级管理员	120	150	37	24	2015/12/12 00:00	N	0

Step 2. Loading examination paper into database, as below process

- a. Examine paper format, refer to Template.txt
- b. Login as Administrator and load paper to Library

Step 3. Start an examination:

- a. Register an tester account and login as testers.
- b. Answering questions as instructed, pudding result to server.
- c. Review and query results & records.

Step 4. Administrator review subjective quizzes

- a. Login as Admin, view unread page.
- c. Scored subjective quizzes and upload.

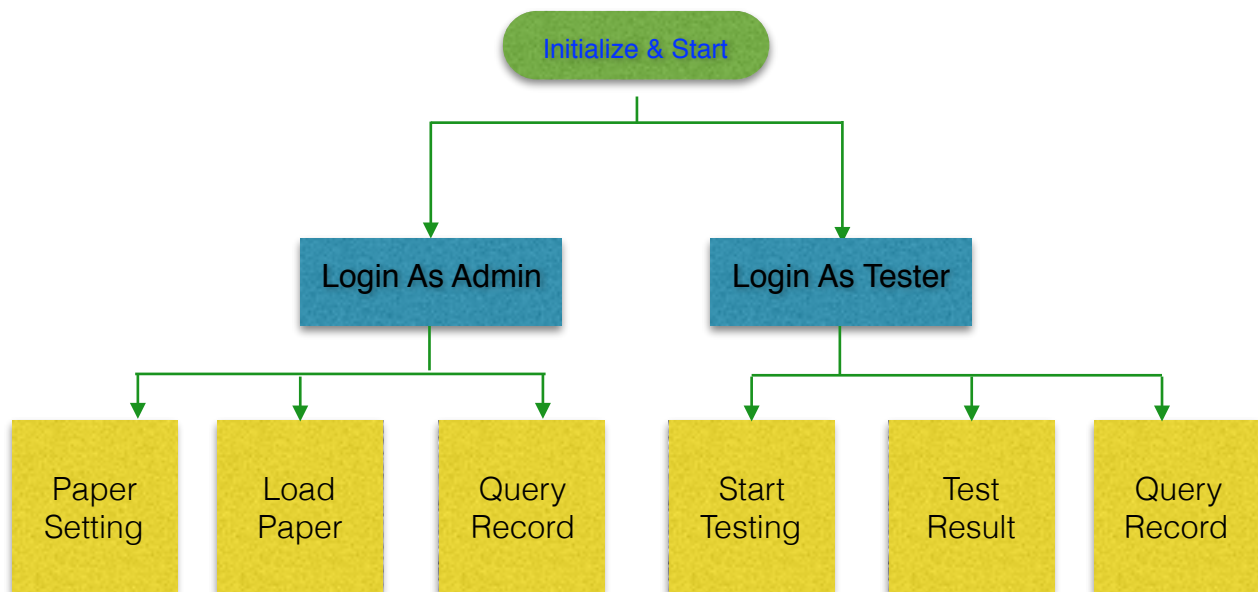
2.1. DataBase Support:

Server host: Mysql server installation and database

Test Client: essential dynamic library

@Addr— /usr/local/mysql/lib/libmysqlclient.dylib

2.2. Business Logic:



III. Architecture

3.1. UI architecture

Top Level(Static UI):

QSSplitViewController(NSSplitViewController):

QSLeftViewController

QSRightViewController

QSMiddleViewController

Second Level(Dynamic UI):

QSLoginViewController

Admin

Tester

QSConfigViewController
QSLoadingViewController
QSReviewViewController

QSTestViewController
QSPaperViewController
QSRecordViewController

3.2. Data Modal architecture

User class: QUser
 QSTester
 QSAdministrator

Quiz class: QSQuestion
 QSQuestionSelect
 QSQuestionAnalysis

Paper class: QSPaper
 QSPaperCount
 QSConfiguration

Utility class: QSTools
 QSMysql
 NSString+ExamPaper(Category)

IV. Reference

1. UML Chart(Class Hierarchy): [UML_of_TestSystem.pdf](#)
2. User manual: [Manual_of_Administrators.pdf](#)
 [Manual_of_Testers.pdf](#)