Function Show of the Course Project

June 28, 2021

有关综合大题的格式问题(仅供参考!)

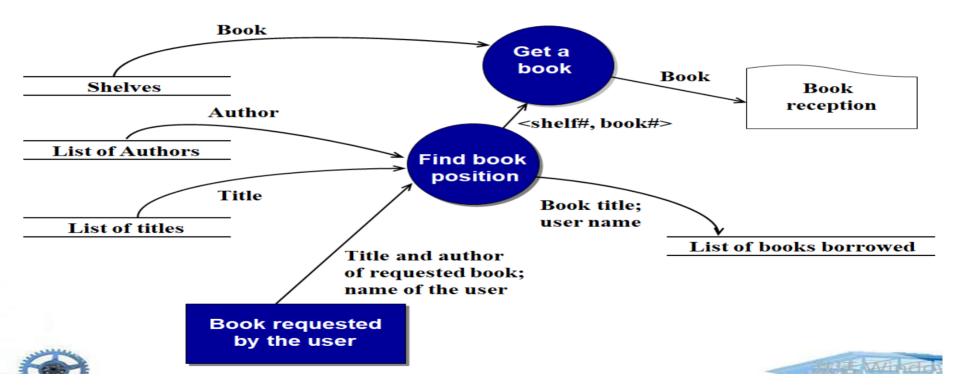
IV. Paper Processing System (PPS) (50 pts.)
Software scope: A journal editorial board wants to build a Paper Processing System (PPS) to automate its paper process and improve the efficiency.

After inputting the name and email, the author can register a new user online. When he/she login in the system, he/she can modify his/her profiles including the affiliation, research interesting, country, etc. The author can submit his/her paper into the system. For each paper, the author should select the paper topic catalog and input the following attributes: name, abstraction, key word, cover letter, recommendation reviewers (name, email, affiliation), attached file. Then, the author can check the paper state, modify the paper according the editor's decision. The editor can assign and invite the reviewers, email the related review information to the reviewers, make the decision (accepted, minor revised, major revised, rejected), and notify the authors. The reviewer can accept or reject the invitation, check the reviewing task, download the paper, and submit the comments and decision online. To facilitate the PPS, the editor need maintain some lists, such as reviewer list, research topic list, and author list.

- 1. Please draw the data flow diagram for processing a paper. (12 pts.)
- 2. Please give the two CRC cards for classes "author" and "paper". (10 pts.)
- 3. Please give the state diagram for the "paper" class. (8 pts.)
- 4. Please draw the web-based software architecture of PPS. (10 pts.
- 5. Please describe the testing strategy for PPS product. (10 pts.)

1. Please draw the data flow diagram for processing a paper. e.g.

Book request = Find book position + Get a book



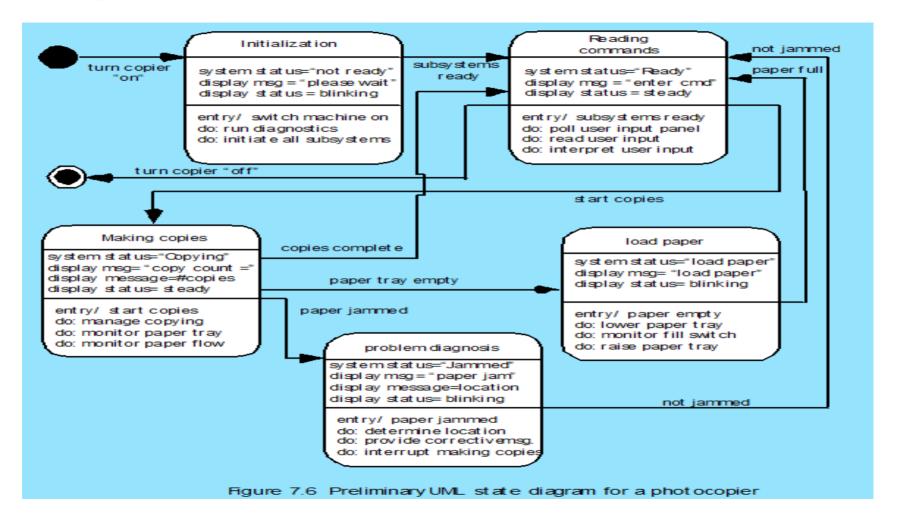
Data Flow Diagram Create reviewer list) reviewer list < review imformation> reviewers assign and invice Atopic catalog, name, abstraction, key word, cover letter, recommedation reviewers, Lcomments, desition > research topic list. make decision Laccept /minor verised/ decision. notify author

1.2. Please give the two CRC cards for classes "author" and "paper".

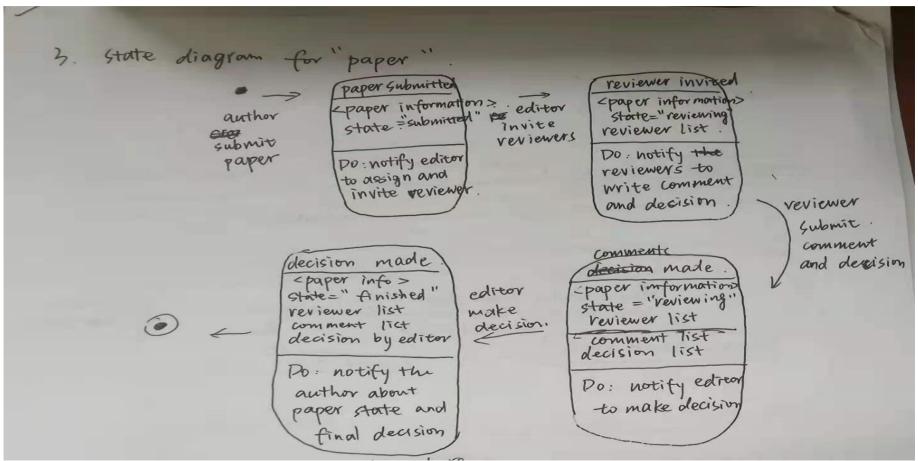
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Responsibility:	Collaborator:
Regioter new users .	Thomas & paras 111
Modify profile.	
Submit his paper.	Paper.
Check paper state &	Paper.
Modify paper	Paper, Ediflor.
a series	age and a second
dass: Paper	A Asam Asum
Pescription: represents	the madernic paper.
Responsibility:	Collaborator:
upleaded Submitted.	Author.
Reviewed.	Editor, Reviewer.
modified.	Author'

• 注: 并非**每一责任点** 都要有对应**协作类**!

1.3. Please give the state diagram for the "paper" class.



实例



1.4. Please draw the web-based software architecture of PPS.

- 书上所列风格:
- Data-centered architectures
- Data flow architectures
- Call and return architectures (调用和召回). 前端+中间功能模块层+后端
- Layered architectures

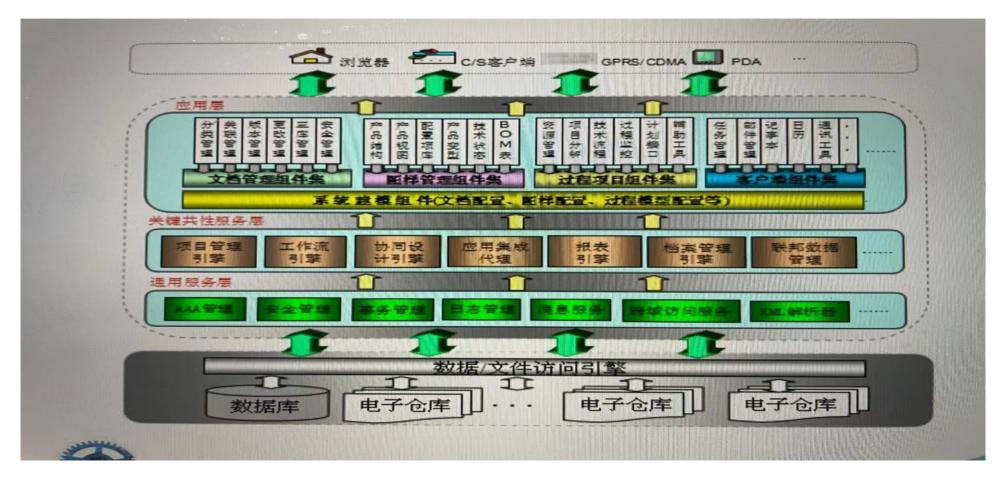
目前流行的改进风格:

- . MVC 形式
- . 功能模块组成

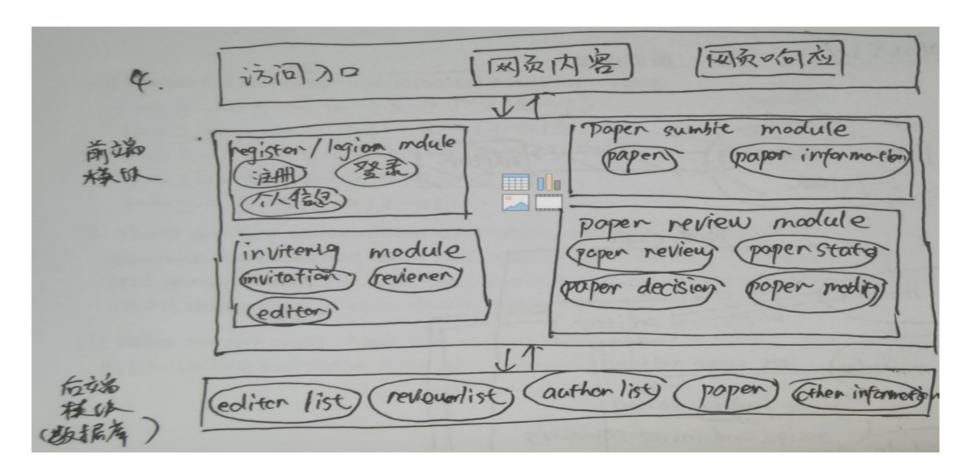
建议本题风格为:

前端+中间功能模块层+后端

举例



实例



1.5. Please describe the testing strategy for PPS product.

- Concept Testing, Component Testing (Unit Test), Content Testing, Interface Testing, Navigation Testing; Integration Testing, Configuration Testing; Regression (回归) Testing; Performance Testing, Security Testing, System Testing, ...
- 注意:要针对题目实际,从小而大选出 6-7 种测试技术,不要全选名称而不做解释!
- 本题建议可选的测试技术有:
- Component Testing (Unit Test),
- Integration Testing,
- Performance Testing,
- Security Testing,
- System Testing,
- Regression (回归) Testing,
- Content Testing,
- Interface Testing,
-

实例 (注: 下图的测试种类还不够多, 定义

的准确性还有待改进!!)

5. testing strolegy Component test: 测试每一个功能差别了用,从证明是要接受等 integration test:测试每一样块功能差层流角, Ineditor 的场有 regression test: 修正名如身后, 重新的活起系统的人 system test: 经生活的 张维生活

任务布置

Review the course!

• Q/A: 曹西一楼走廊, 16:00-17:30pm, July 7, 2021