

A

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Part 1

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INTRODUCTION

TEAM MEMBERS



Hank



Alin



Tian



Nan



INTRODUCTION

About WESyllabus



WESyllabus is a project whose target is to create a national repository of computer science course syllabi to assist students in making good educational choices, instructors in sharing best practices, and education researchers in understanding the evolution of our field. Most of WESyllabus users are professors and students of computer science. Professors can upload their syllabi to WESyllabus website, visit all courses' syllabi at freedom and even post a job offer. Students can visit all CS courses' syllabi, understand the graduation requirements in their own university and get professors' job information.

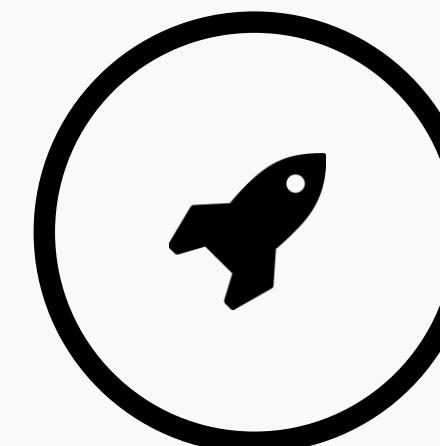
INTRODUCTION

Feature for Students and Professors



Course Structure

According our survey, most of students pay attention to their specialty planning, but only 10% of them plan clearly. So WESyllabus main purpose is show a complete training program of computer science.



Lab Information

WESyllabus can also provide information about many professors' requirements, such that students can focus on their interest.



Skill Diagram

WESyllabus can link to education system, so students can check all courses they finished conveniently. And WESyllabus can prompt potential area that students may focus on.



Syllabi Exchange

For professors, they can upload their syllabi to WESyllabus and exchange their test question at this platform. Because of uploading syllabi, students can learn about course outline before they choose it, and they can plan when they choose it.

| TIMELINE A

Proposal & Presentation 1

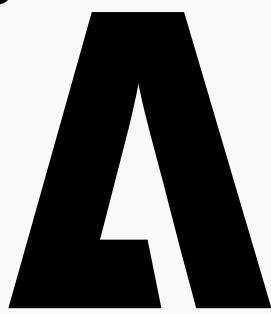
Surveys and statistics, learn about user requirements.
Transfer user statements to interpreted.
Search APIs and services, decide what technique we should learn.
Give testing plan.

12th Oct.

31th Oct.

Seedtime

Make power point of presentation 1.
Submit proposal of project.
Establish github workspace, and upload our documents.
Give schedule.



Programming

20th Nov.

According schedule, design our web pages
and code.
Upload on Github workspace.

According testing plan, debug and test our
website completely.
Finish final report and technical power points
of final presentation.

Testing

31th Dce.

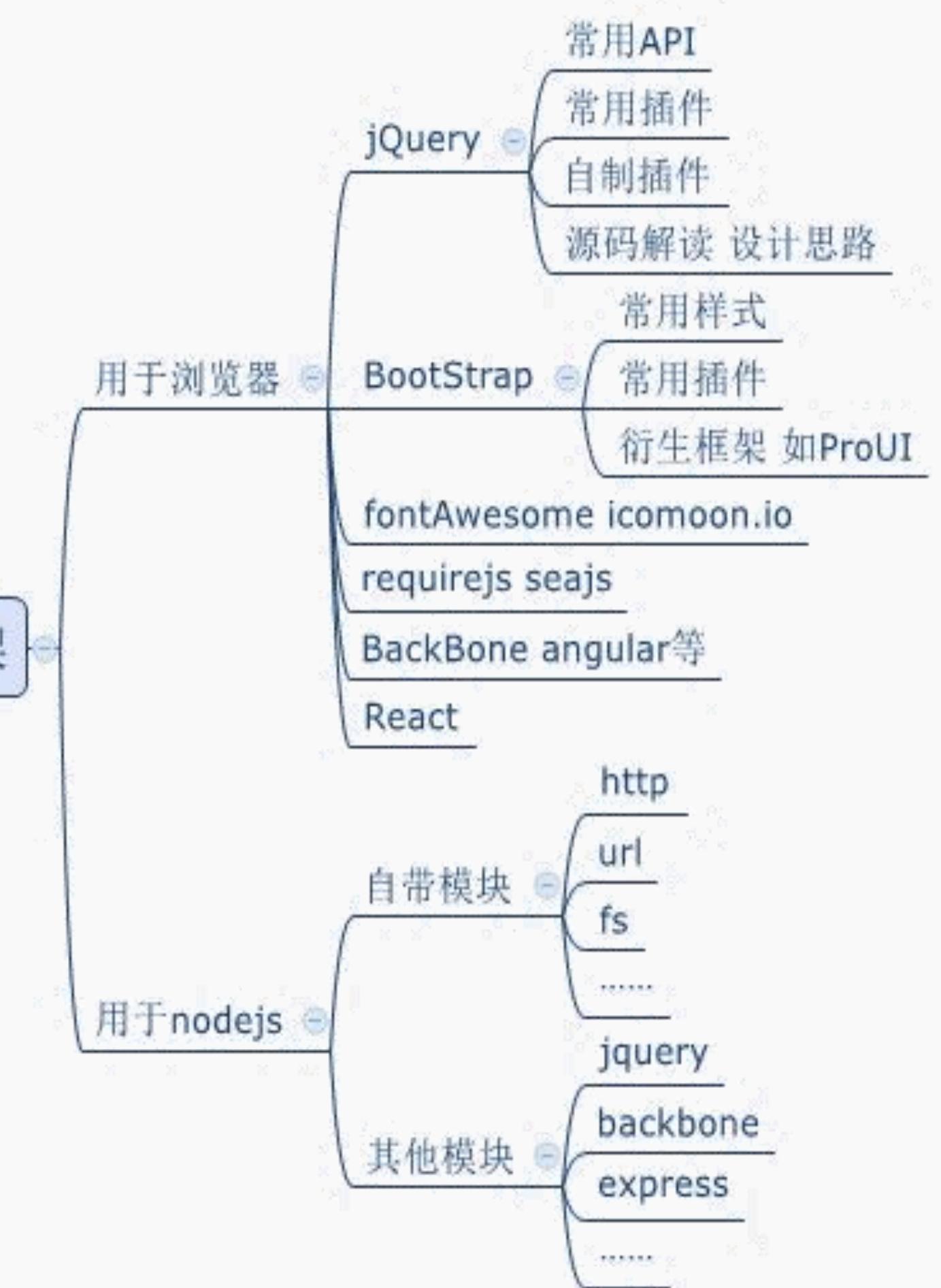
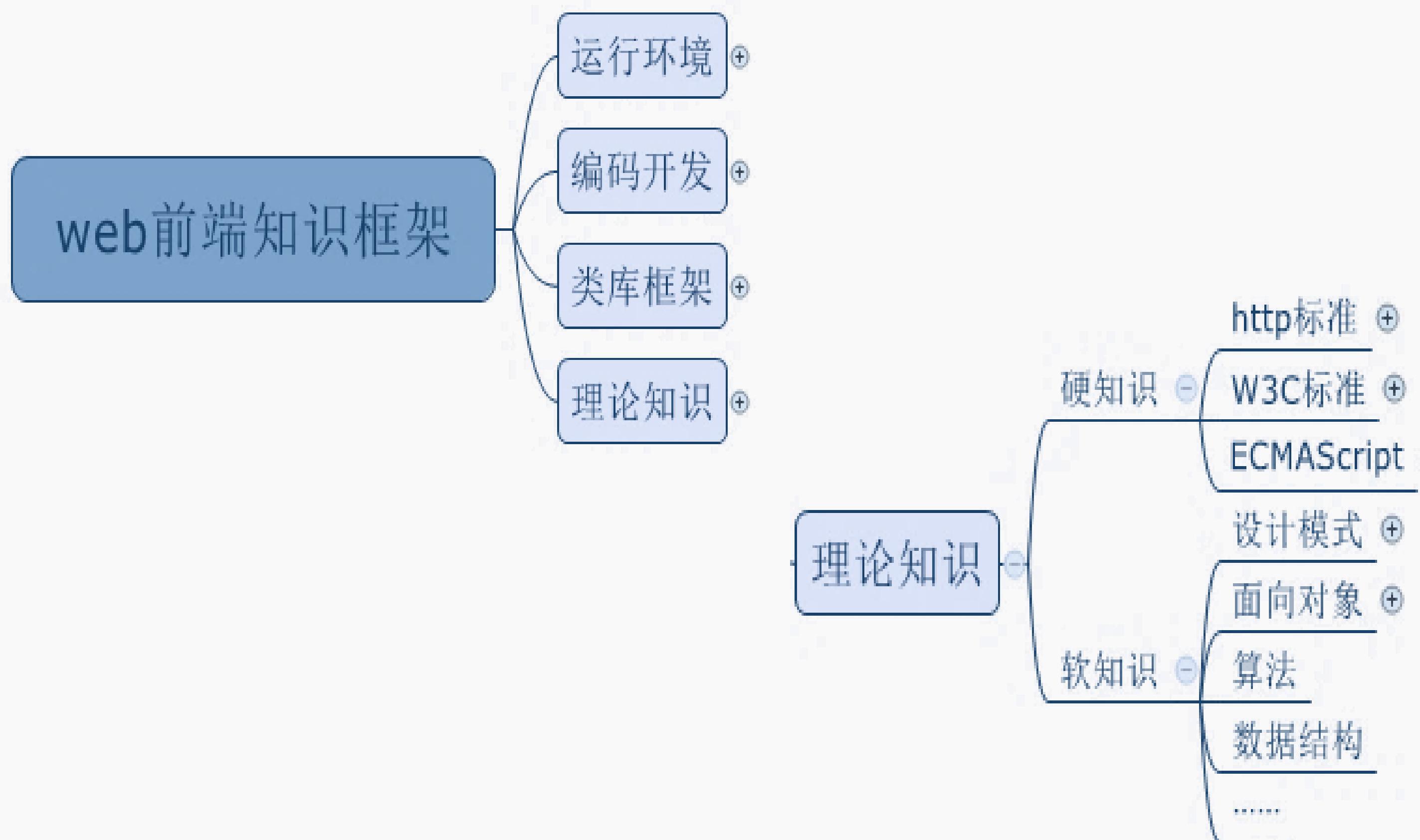
Improve and consummate website's functions.
Prepare for SCORE 2018.

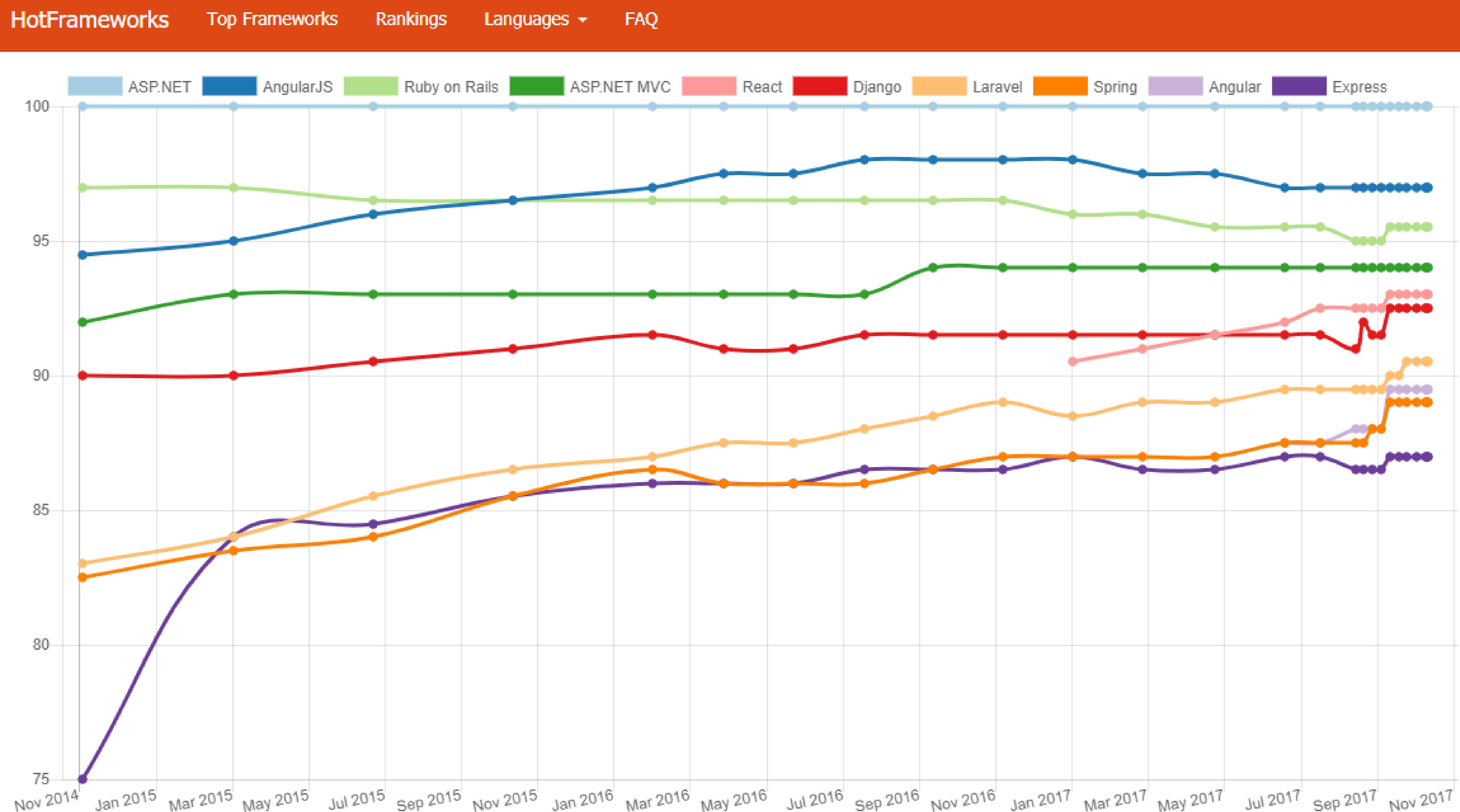
Optimization

etc.

INTRODUCTION

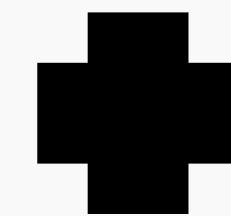
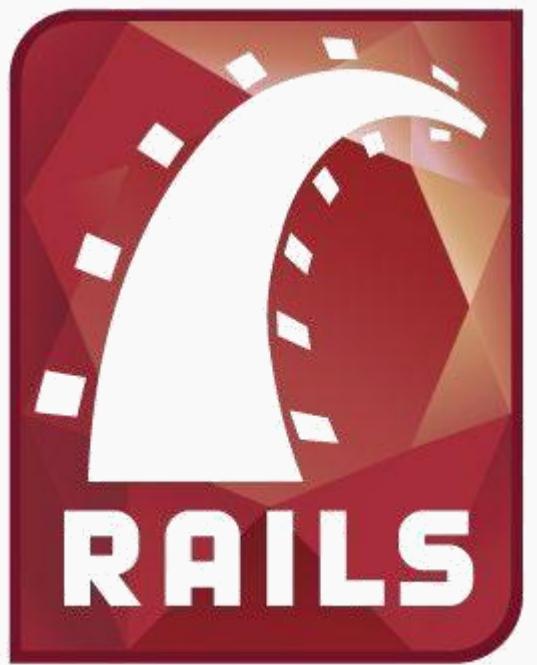
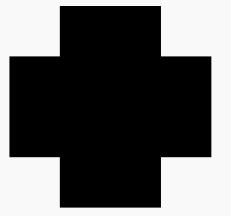
Technical Realization





INTRODUCTION

Technical Realization

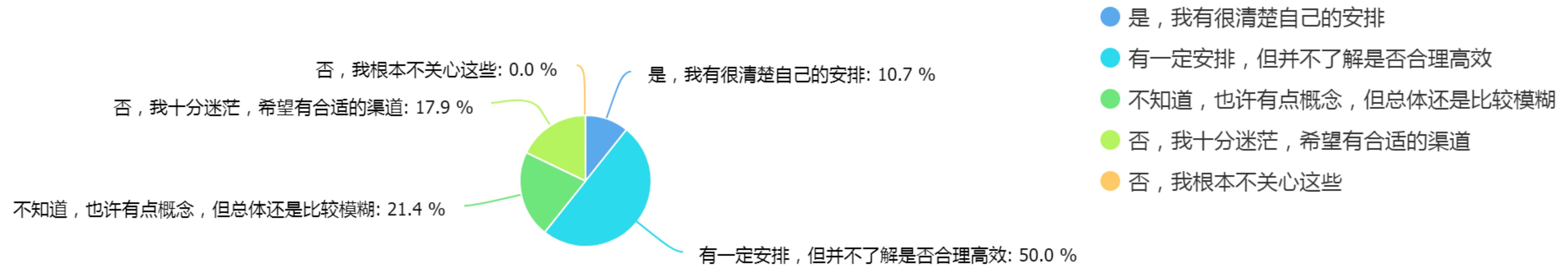


Part 2

User Requirements



User situation



Students Needs

Students Statement (Interested)	Interpreted Need
I want to know the structure of professional courses	Structure of professional courses
I wanna know the course content	Courses' outline
Frontier subject, laboratory	Introduction of frontier subject, laboratory
Frontier research results	Links of frontier results, papers
Courses arrangement for each semester of the school	Arrangement of school schedule
The difficulty of each course	Students' feedback
Professional requirements of different research directions / topics	Professional requirements
The projects I can do	The practical application of each course
Cross research with other fields	Cross research with other fields
How far is my target from my abilities?(a project, job, research, etc.)	Skills requirements
What are the paths that can achieve my goals (a project, job, research, etc.)	The paths of skills requirements
The next step (the course, direction I can learn)	Follow - up courses/directions

Instructors Needs

Instructors Statement (Interested)	Interpreted Need
Upload syllabus, exchange teaching experience, curriculum structure and test questions with other instructors who teach the same course.	Repository of Course Syllabi and a discussion board
Faculty and students values free exchange of ideas, availability of open source software, open publications in the forum.	Forum
Get feedback on student situation. (learning situation, learning needs, or other situations)	Students' feedback (learning)
The ability for instructors to exchange test questions	A communal space to stored (test questions) files
Laboratory accurate recruitment.	Display the applicant candidate skills

Ranked Customers Needs

Students

- Structure of professional courses
- Introduction of frontier subject, laboratory
- Skills requirements
- Arrangement of school schedule
- The practical application of each course
- Students' feedback (difficulty)
- Courses' syllabus
- Professional requirements
- Links of frontier results, papers
- Cross research with other fields

Instructors

- Repository of Course Syllabi and a discussion board
- A communal space to stored (test questions) files
- Students' feedback (learning)
- Forum
- Display the applicant candidate skills

Both

- Forum
- Students' feedback
- Others

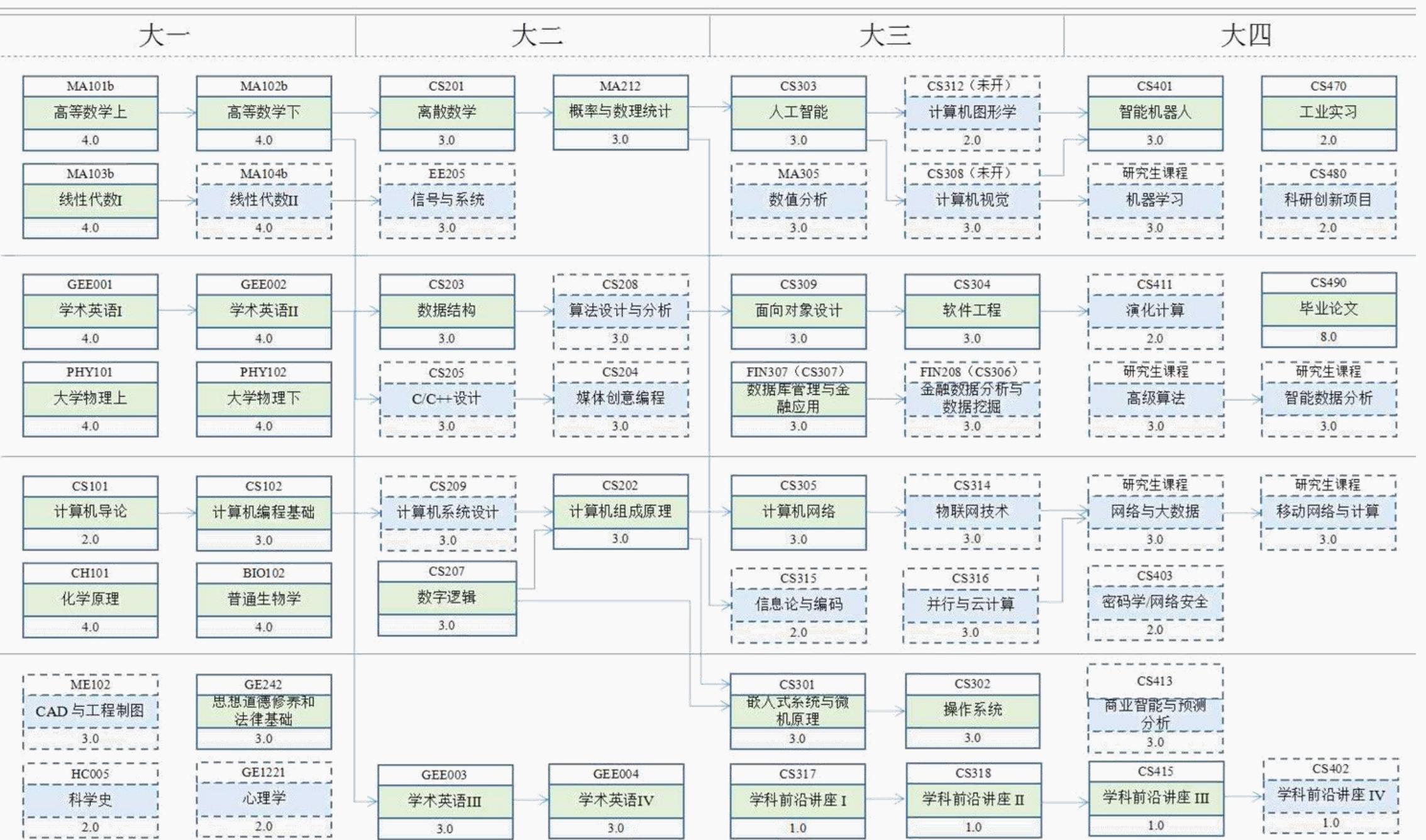
Part 3

Demo



表1 专业基础课与专业核心课教学安排一览表

2016计算机科学与技术专业课程

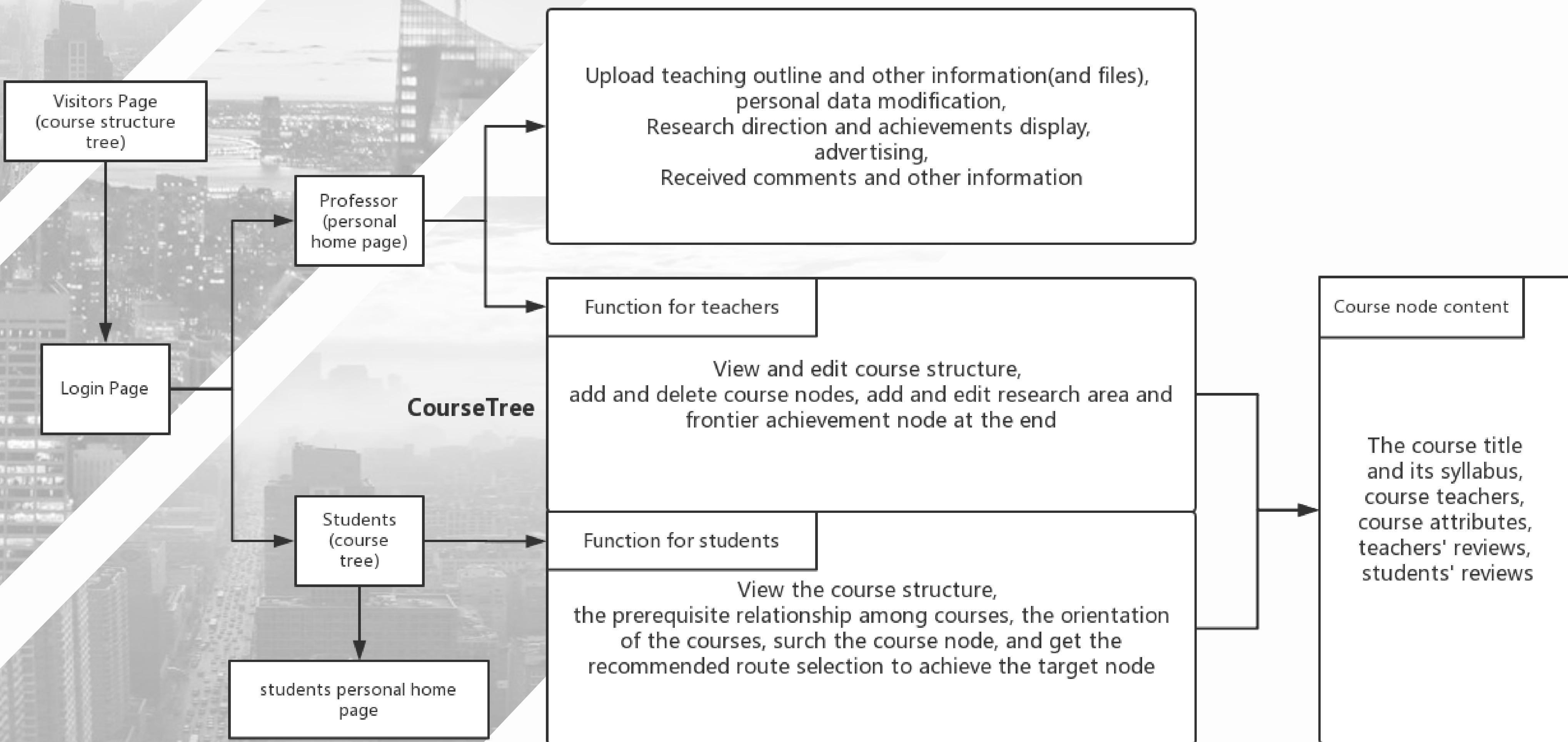


计算机科学与技术专业

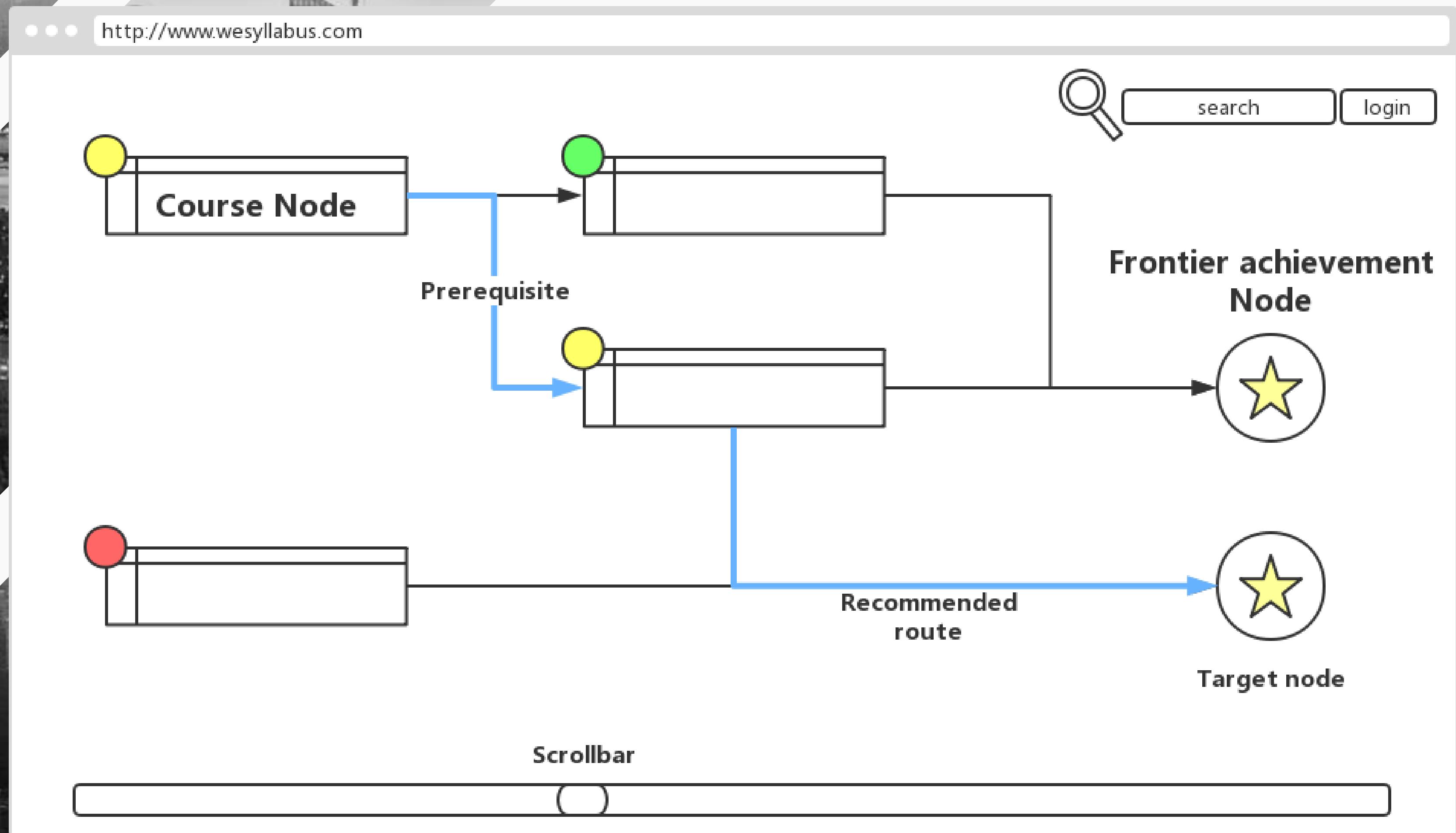
课程类别	课程编号	课程名称	考试/查	总学分	其中实验学分	各学期周学时分配								备注
						1	2	3	4	5	6	7	8	
专业基础课	MA204	概率论与数理统计 Probability and statistics	试	3						3				数学系
	CS201	离散数学 Discrete mathematics	试	3						3				
	CS203	数据结构与算法分析 Data structures and algorithm analysis	试	3	1				4					
	CS202	计算机组成原理 Computer organization principle	试	3	1				4					
	EE202	数字电路 Digital circuit	试	3	1				4					
	合计			15	3			7	11					
专业核心课	CS302	操作系统 Operating systems	试	3	1							4		
	CS304	编译原理 Compilers principles	试	3	1						4			
	CS306	软件工程 Software engineering	试	3	1						4			
	CS308	计算机体系与结构 Computer system and architecture	试	3	1						4			
	CS301(EE319)	嵌入式系统与微机原理 Embedded system and microcomputer principle	试	3	1						4			
	CS303(FIN309)	人工智能 Artificial intelligence	试	3	1					4				
	CS305(EE315)	计算机网络 Computer networks	试	3	1					4				
	CS307	数据库原理 Database principle	试	3	1					4				

Comparison

Page Structure |



Course Tree |



Course Page |

http://www.wesyllabus.com

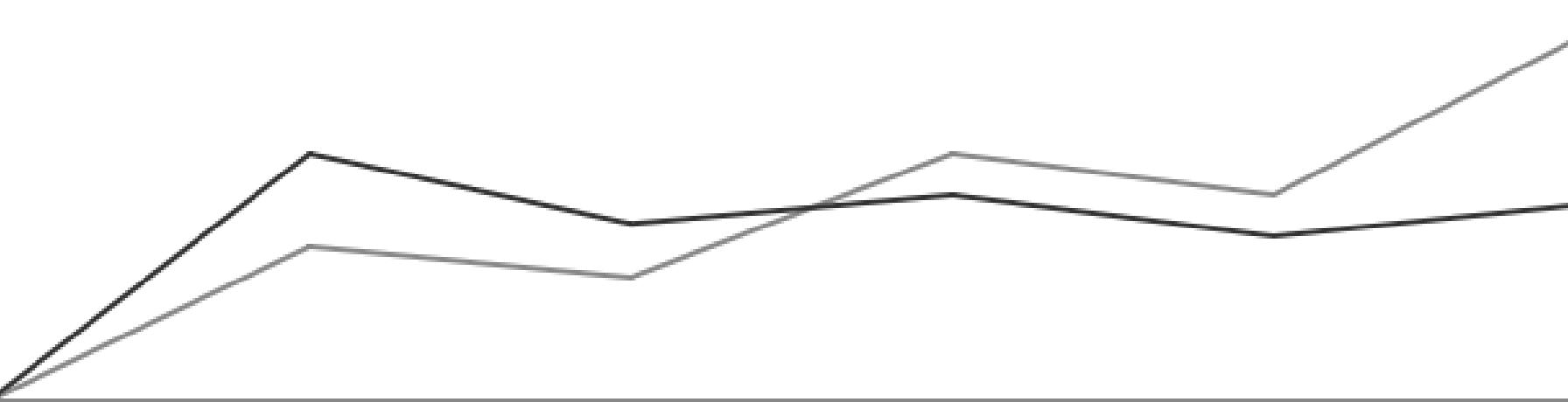
Course name & ID

credit

Choose professor

Outline Syllabus Key point Use Attributes

Some data

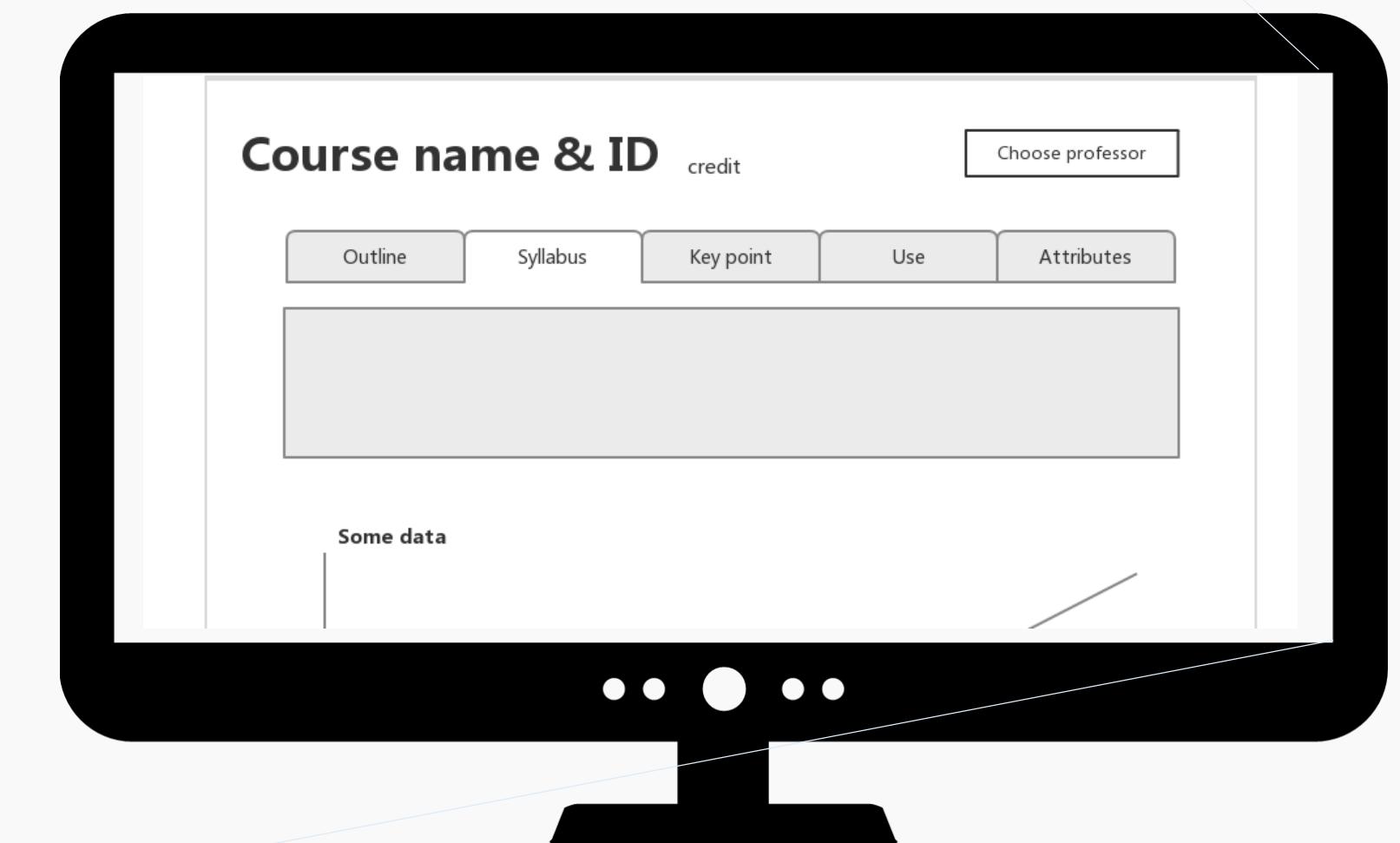


Comment Area

Comment 1 (User icon)

Comment 2 (Heart icon)

Comment 3 (Question mark icon)



Part 4

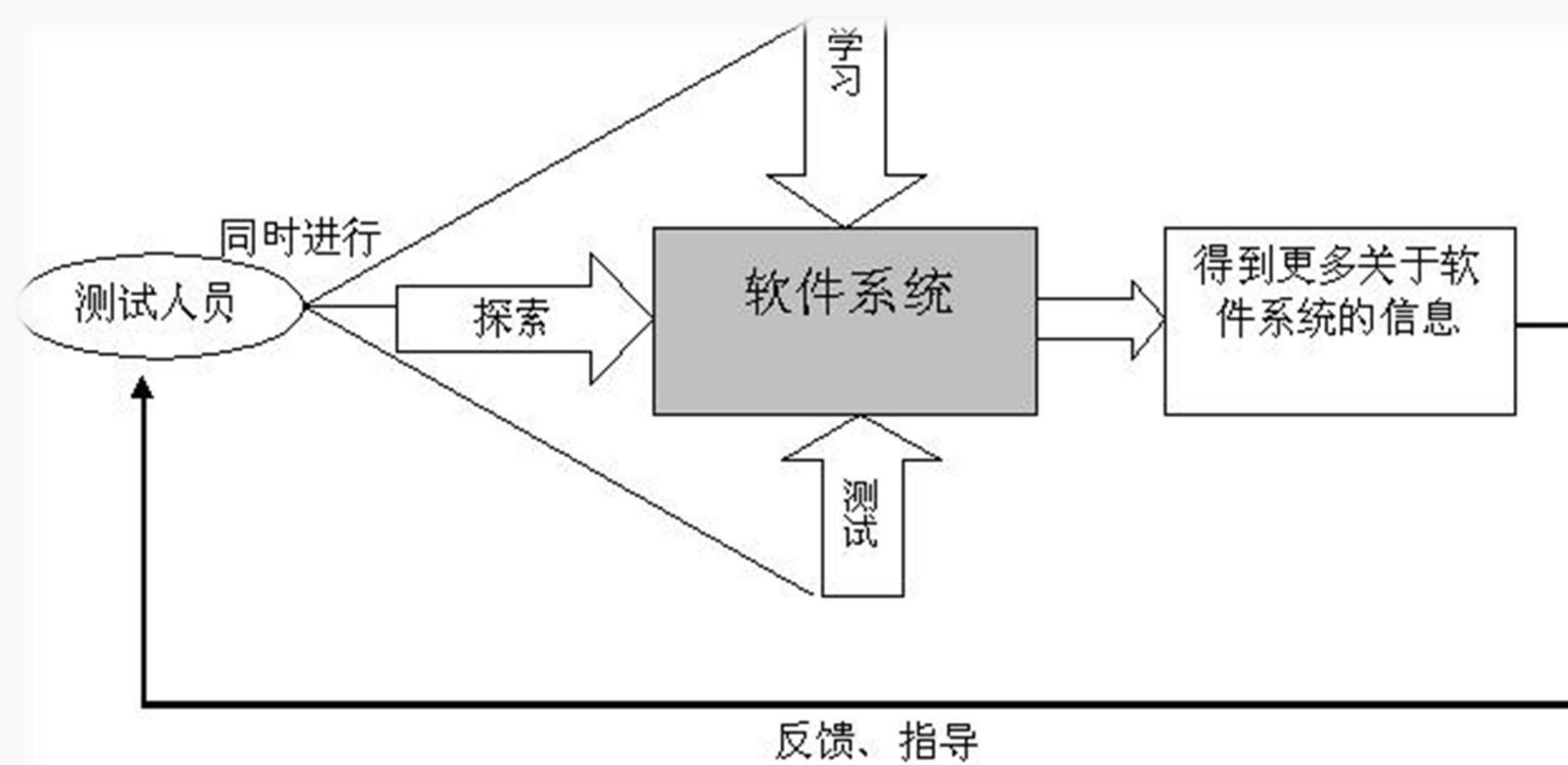
Testing



Testing Plan

Give first place to manual testing with automated testing as a supplement , in order to test UI and try some exploratory test.

Flow diagram of exploratory test :



6 Parts of Testing Plan



Functional test
Link test——use Xenu
Form test
Cookies test
Database test——use
Crash-me(Mysql)



Performance test
Connection speed test
Load test
stress test
— — use OpenSTA,
Apache(ab)



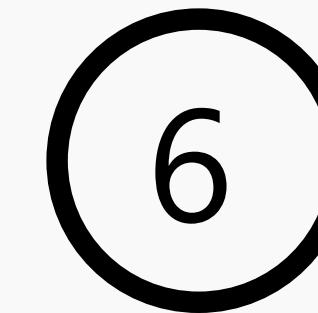
UI test
Content test
Graph test
User interface test



Security test
Log in test
Log file
Encryption
——use SAINT



Compatibility Test
Platform test
Browser test
——use OpenSTA



Interface test
External interface test
Server interface test
Error handling



Da Lao

“ High cohesion, low coupling ”



Questions?