Student Scheduling System User Manual

Student Scheduling System Part II

Team 10

 Bo Wang: Project Manager / Quality Focal Point / Implementation Team
 Bohan Zheng: Prototyper / Builder / Implementation Team
 ChenyangBai: Feasibility Analyst / Operational Concept Engineer / NDI /NCS Evaluator / Implementation Team
 Frank Varela: IIV&V / Shaper / Quality Focal Point
 Rui Tong: Requirements Engineer / Operational Concept Engineer / NDI / NCS Acquirer / Implementation Team
 Shuai Wang: System/Software Architect / UML Modeler / Implementation Team
 Xiaoran Li: Life Cycle Planner / Tester / Implementation Team

Version History

Date Author Versio		Version	Changes made	Rationale	
03/21/2014	Chenyang Bai	1.0	 Draft version of UM is formed. Initial information and guidelines added. 	• To satisfy the requirements of the CCD/TRR and to provide instructions to the users how to use the scheduling system software.	
03/29/2014	Bo Wang	1.1	 Add cloud server deployment procedure 	 Detail the procedure for Cloudbees deployment 	
03/31/2014	Chenyang Bai	1.2	 Edit part 3 and part 4 	For CCD report	
04/13/2014	Chenyang Bai	1.3	Add login page and auto function	Match the requirement	

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User Manual

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1. Introduction

1.1 System Overview

The purpose of Student Scheduling System is to provide a study plan creation facilitator online for both undergraduate students and faculty of Steven's Institute of Technology.

By using the Student Scheduling System, course selecting is automated. For the student side, after entering the data of his/her course plans, a student can get possible study plan generated by the system. And for the administrative side; they can add/delete courses from the system, modify courses' features/information, form new course groups and create new degree programs. Meanwhile they are also able to delete/modify these course groups, degree programs or even requirements to complete these programs.

1.2 System Requirements

- Minimum hardware/software requirements for running the Student Scheduling System are given below under the related headers.
- Requirements might show minor differences among the different systems or hardware/OS equipment. Therefore; the given requirements below represent a recommended configuration as well to operate the Student Scheduling System properly.

1.1.1Hardware Requirements

Server Side Hardware Requirements:

- Processor : Intel® Xeon E3xxx Processor or equivalent.
- Memory : 3GB
- Storage : 5GB for database tier
- Data Bandwidth: (Relative to the simultaneous numbers of users.) ~1 Mbit/s
- Domain Name and Dedicated IP address
- I/O Devices for Maintenance Issues

User Side Hardware Requirements:

- Processor : Intel® Centrino/Ix/Celeron/PentiumIV; AMD AthIon/Phenom/FX processors or equivalent.
- Memory : 1GB free space
- Internet Connection
- I/O Devices to operate Web Browsers properly.

1.1.2Software Requirements

Server Side Software Requirements:

- UNIX Server or Windows Server
- Java Runtime Environment 7 or higher.

- MySQL Server
- PLAY framework for Java
- Java Editor (Recommended for maintenance issues)
- XAMPP (Recommended for maintenance issues)
- Java IDE for maintenance.

User Side Software Requirements:

- Windows, Linux, MacOSx or equivalent (mobile) operating system that can operate supported web browsers.
- Google Chrome (Strongly recommended.)
- Java Runtime Environment 7 or higher.

2. Installation Procedures

2.1 Initialization procedures

2.1.1 Application Deployment on Cloud

Credentials:

- Email: csci577team10@gmail.com
- Email password: *zuzhangshiwangbo*!
- Cloud service: <u>http://www.cloudbees.com</u>
- Username on cloud: *team10*
- Email used to login the cloud: csci577team10@gmail.com
- Password to login to the cloud: *zuzhangshiwangbo*!

Prerequisites (Local Machine):

- JDK 7
- BeesSDK (see installation instructions here: http://developer.cloudbees.com/bin/view/RUN/BeesSDK)
- MySQL Workbench (see installation instructions here: <u>http://dev.mysql.com/downloads/tools/workbench/</u>)
- Binary distributive of the application (see section: Binary distributive creation for target server).
- Database dump file (from sss/Database/sssVX_X.sql or from production server)

BeesSDK is a set of utilities from cloudbees. You just need to download distributive (zip archive) from the website and unzip it.

After that you can run it from /cloudbees-sdk-1.5.2 folder by using 'bees' command.

Deployment (from local machine to the cloud):

For general instructions on how to deploy PLAY framework applications on cloudbees.com; you can find useful resources here: <u>http://wiki.cloudbees.com/bin/view/RUN/Playframework</u>

If you need to deploy new version of application software on already operating server skip steps 1-5 and do only step 6.

If you need to restore data on the operating server, do step 5.

 Create a new application called 'app': In web browser open http://www.cloudbees.com/ Login the system using credential above. Then click 'ClickStart' (top left corner) and select 'Play! Framework 2'. Enter application name: app 2. Create DB called 'sss_db', in command line run: bees db:create sss_db

> You will need to enter a unique user name and password for this DB. As result you will see: Database Username (must be unique): *team10* Database Password: *root* database created: *sss_db –u team10 –p root*

- 3. Bind application and DB: bees app:bind -a app -db sss_db
- 4. Update sss/conf/application.conf, so that: db.default.driver=com.mysql.jdbc.Driver db.default.url="ec2-50-19-213-178.compute-1.amazonaws.com/sss_db? characterEncoding=UTF-8" db.default.user=team10 db.default.password="root" db.default.logStatements=true

Then build a binary distributive: play dist

You can find DB configuration parameters by calling: bees db:info sss_db

And it will show:	
Database name	: sss_db
Account	: team10
Status	: active
Master	: ec2-50-19-213-178.compute-1.amazonaws.com:3306
Port	: 3306
Username	: team10

5. Populate DB with initial data:

Run MySQL Workbench (graphical tool), connect to the DB using credential listed earlier ("New server instance" button).

Then press "Manage Import / Export" button and select section "Data Import / Restore". Then select database dump file in field "Import from self contained file". Select Database 'sss_db' and press import.

Set the runtime paremeter: bees config:set -a app -P db.default.url=jdbc:mysql://ec2-50-19-213-178.compute-1.amazonaws.com:3306/sss_db

bees config:set -a app -R java_version=1.7

6. Deploy binary distributive: bees app:deploy -a app -t play2 -R java_version=1.7 target/universal/sss-1.0-SNAPSHOT.zip

You should be able to see: Application parameters: {containerType=play2}uploaded 25%uploaded 50%uploaded 75%upload completed deploying application to server(s)... Application student-scheduling/app deployed: http://app.team10.cloudbees.net

3. Operational Procedures

For the Administrative Users:

STEVENS SCIENCE SCIENCE SCIENCE

Course		Course Group	Requirement	Degree Program	Help
Add New Cou	rse				
bbreviation	Course Name		Prerequisites	Corequisites	Options
S 115	Introduction to	Computer Science	-	-	edit / delete
S 146	Introduction to	Web Programming and Proj	ect -	-	edit / delete
	Development				
S 284	Data Structures		CS115	CS135	edit / delete
S 334	Automata & Cor	nputation	CS115 , CS135	-	edit / delete
S 383	Computer Orga	nization & Programming	CS115	CS181 or CS284	edit / delete
S 385	Algorithms		CS181 or CS284	-	edit / delete
S 494	Complier Design	1	-	-	edit / delete
S 496	Principles of Pr	ogramming Languages	CS334	CS182 or CS385	edit / delete
S 442	Database Manag	gement System	CS182 or CS385	-	edit / delete
S 511	Computer Prog	ramming	-	-	edit / delete
S 488	Computer Archi	tecture	CS383	MA222	edit / delete
S 492	Operating Syste	m	CS383, CS392	-	edit / delete
S 423	Senior Design I		CS182 or CS385	-	edit / delete
S 573	Fundamentals o	f Cybersecurity	-	-	edit / delete
S 424	Senior Design II		CS423	-	edit / delete
IA 115	Calculus I		-	-	edit / delete
IA 116	Calculus II		-	-	edit / delete
IA 134	Discrete Mather	natics	-	-	edit / delete
IA 222	Probability and	Statistics	-	-	edit / delete
IA 331	Statistical Meth	ods	-	-	edit / delete
IGT 111	Organizational	Behavior & Social Psych		_	edit / delete

Figure 1

Appendix 1: The first page of the administrative side is "course", which is in the top of the screen, click"course"from the menu, we can skip to "course" page, as Figure 1 shows. In this page you can click "edit" or "delete" button to handle the existing courses.

Appendix 2: In "course" page, if you want to add new courses, you can click the "Add New Course" button, then the page will skip to "Course -> Add new course" page, which shows in Figure 2 below.

Course		Course Group	Requirement	Degree Program	Help
Course -> Add new c	ourse				
Rrefix&Number:		-			
Course Name:				Credit	s:
Available semester(s	s) for this cou	irse on campus:			
Spring	Summer	Fall Winter			
Available semester(s	s) for this cou	ırse onLine:			
Spring	🔲 Summer	Fall Winter			
The prerequisites of	f the course :	null		ADD	2
The corequisites of	the course :	null		ADD	2
			SUBMIT		

Figure 2

Appendix 3:

In "Course -> Add new course" page, you can add courses by inputting course Prefix&Number such as "CS-115". Then you can add course name and course credit such as "Introduction to Computer Science" and its credits is "3". After that, you can select available semester for this course both on campus and online. In the end, if the course has prerequisites or corequisites courses, you should input the relevant courses in the corresponding input box(if the courses have "and", "or" relationship, you should also choose the relation for the courses, and select group for the courses) after that, click "add" button, if you want to cancel the courses you have selected, you can double click on the course, then it will be canceled. When you finish the adding courses process, you can click "Submit" button. As Figure 3 and Figure 5 show below:

The prerequisites of the course :	cs	ADD ?
	CS115 - Introduction to Computer Science	
	CS146 - Introduction to Web Programming and Project Development	
	CS284 - Data Structures	
	CS334 - Automata & Computation	
The corequisites of the course :	CS383 - Computer Organization & Programming	ADD ?
	CS385 - Algorithms	
	CS494 - Complier Design	
	CS496 - Principles of Programming Languages	
	CS442 - Database Management System	
	CS511 - Computer Programming	
	CS488 - Computer Architecture	
	CS492 - Operating System	
	CS423 - Senior Design I	
	CS573 - Fundamentals of Cybersecurity	
	CS424 - Senior Design II	
	CS105 - Introduction to Computer Science	
	CS181 - Introduction to Computer Science Honors I	
	Figure 3	_
The prerequisites of the course :	null	ADD ?
Image: CS115 AND ▼ AND Image: CS115 AND OR	CS284	
The corequisites of the course :	null	ADD ?
	SUBMIT	
	Figure 4	

Appendix 4: Then we can go to the course group page, as Figure 5 shows below, in this page, you can click "edit" or "delete" button to handle the information of existing course groups, if you want to add new course groups, you can click "Add New Course Group" button to go to Add new course group page, which shows in Figure 6

		ENS UTER ENCE	Scheduling	Manageme	nt System	
C	ourse	Course Group	Requirement	Degree Program	Help	
Add New Cou	rse Group					
bbreviation	Group Name				Options	
S Course	Required Comp	uter Science Courses			edit / delete	
ath Course	Required Math	Courses			edit / delete	
GT Course	Required Mana	gement Course			edit / delete	
E Course	Required Physi	cal Education Courses			edit / delete	
CI Course I	Required Scien	ce Courses I			edit / delete	
CI Course II	Required Scien	ce Courses II			edit / delete	
I Course III	Required Scien	ce Courses III			edit / delete	
CI Course IV	Required Scien	ce Courses IV			edit / delete	
I Course V	Required Scien	ce Courses V			edit / delete	
P Group A	Group A: Literature / Philosophy edit / delete					
/SS Group B	Group B: Histor	v/Social Science			edit / delete	
SS 371	HSS 371				edit / delete	
I/MA Ele	Science/Math E	lectives			edit / delete	

Figure 5

Appendix 5:

In course group -> Add new course group page, we can input the Abbreviation and Title for the new course group, then select courses from the left course window, after we have selected all the courses for the new course group, we can click $\stackrel{\sim}{\longrightarrow}$ button to make a new course group, then you make sure everything is right, clicking "submit" button to generate new course group.



SUBMIT Figure 6

Appendix 6: For requirement, it includes simple requirement page and requirement page, in the *simple requirement page*, showing in the Figure 7 below:

Course	Course Group	Requirement	Degree Program	m Help	
Add New Simple Requireme	nt				
Title	Course Group	Required Co	ourse Number	Options	
Required Computer Science (Courses CS Course	15		edit / delete	
Required Math Courses	Math Course	5		edit / delete	
Required Management Cours	e MGT Course	1		edit / delete	
Required Science Courses I	SCI Course I	3		edit / delete	
Required Science Courses II	SCI Course II	3		edit / delete	
Required Science Courses III	SCI Course III	3		edit / delete	
Required Science Courses IV	SCI Course IV	3		edit / delete	
Required Science Courses V	SCI Course V	3	3		
PE	PE Course	6		edit / delete	
Group A: Literature / Philoso	phy L/P Group A	2		edit / delete	
Group B: History/ Social Scier	ice H/SS Group B	2		edit / delete	
HSS 371	HSS 371	1		edit / delete	
Science/Math Electives	SCI/MA Ele	2		edit / delete	

Figure 7

Appendix 7: For each simple requirement, it includes a title and a course group, it also includes required course numbers of the group. You can edit and delete these information of each simple requirement.

Appendix 8: If you want to add a new simple requirement, you can click "Add New Simple Requirement" button to do this. As the Figure 8 shows below:

Appendix 9:

Simple Requirement -> New Simple Requirement	
Title:	
Please choose a course group: (Please choose course V	Courses in the course group
Courses are required in this group.	
submit	

Figure 8

Appendix 10: below:

In requirement page, we can edit and delete existing requirements as Figure 9

Add New Requirement

Science/Math Electives	
Required Humanities Course	edit / delete
Required PE Course	edit / delete
Required Science Courses	edit / delete
Required Management Course	edit / delete
Required Math Courses	edit / delete
Required Computer Science Courses	edit / delete
Title	Options

Figure 9

Appendix 11: If you want to add a new requirement, you can click "Add new requirement button" and skip to Add New Requirement page as Figure 10 Appendix 12:

Requirement -> New Requrire	ment			
Titue:				
Add simple requirement:	Required Computer 🔻	ADD		
List of Simple Requriem	ient:			
			ıbmit	

Figure 10

Appendix 13: For each new requirement, we should give a title and add simple requirements which includes in the requirement to the list of simple requirement. After that, we can click submit button to generate a new requirement.

For degree program page, you can edit and delete existing degree program as

Appendix 14: Figure 11



Figure 11

Appendix 15: If you want to add a new degree program, you can click the "Add New Degree Program" button to skip to that page, shows in Figure 12:





Figure 12

Appendix 16: In this page, you should input the title for new degree program and select requirement for this degree from the left requirement window, then click = button to generate requirements

to the new degree program. When you make sure all is right for the new degree, you can click submit button to generate new degree program.

For the Student side Users:

Step 1: (1) The first page for the Student side is login in page as Figure 13 shows, the username and password are both admin, showed below the "Login" button.

STEVENS COMPUTER SCIENCE	Student Sc	heduling	Management System
	Username:		
	Password:	Login	
	current userna	me/password: admin/adi	min

Figure 13

Step 1: (2) When you open the Student Side, you will see the page(Figure 14) below:



Figure 14

We are requested to choose a degree program, we can select one degree program here and **click** "**submit**" button.

Now we will skip to choosing course page(Figure 15) below:

Degree: BS CS Degree 20XX			
STEP 1 : Choosing Courses	STEP 2 : Scheduling Courses	STEP 3 : Getting Study Plan	
COURSE BIN		Requirement 1	\oplus
Want to take:			
Already taken:			
AUTO	NEXT		

Figure 15

Here we can click \oplus button to choose courses from the right window, as Figure 16 shows below, we should notice that because the corses have prerequisite and corequisite relationship, so some courses have such limit must be chosen after other courses in their requisite have been chosen. If we do not do this way, we will see error hint in as Figure 17

STEP 1 : Choosing Courses	STEP 2 : Scheduling Courses	STEP 3 : Getting Study Plan	
COURSE BIN Want to take: CS 115 - Introduction to Comp CS 135 - Discrete Structures CS 284 - Data Structures	outer Science & & &	Requirement 1 You must take all the courses listed below. Simple Requirement 1 CS115 - Introduction to Computer Science CS135 - Discrete Structures CS284 - Data Structures	
Already taken:			
AUTO	NEXT		



check the prerequisite constraints! CS115	
The page at 127.0.0.1:9000 says:	

Figure 17

Step 1: (3) You can also click "Auto" button directly if you want the system to help you generate the courses automatically. Figure 18

STEP 1 : Choosing Courses STEP 2 : Scheduling Courses STEP 3 : Getting Study Plan

COURSE BIN		Required Computer Science Courses	\oplus
Want to take: 25573 - Fundamentals of Cybersecurity	8	Required Math Courses	\oplus
CS511 - Computer Programming CS494 - Complier Design CS146 - Introduction to Web Programming and Pr	⊗ ⊗ roject	Required Management Course	\oplus
Development CS115 - Introduction to Computer Science CS135 - Discrete Structures	8 8 8	Required Science Courses	\oplus
CS284 - Data Structures CS283 - Computer Organization & Programming	8	Required PE Course	\oplus
CS334 - Automata & Computation MA222 - Probability and Statistics CS488 - Computer Architecture	8 8 8	Required Humanities Course	ŧ
CS385 - Algorithms CS496 - Principles of Programming Languages	8 8	Science/Math Electives	Œ
CS347 - Software Development Process CS423 - Senior Design I CS442 - Database Management System	8 8 8	Technical Electives	ŧ
S424 - Senior Design II S392 - Systems Programming	\otimes		
S492 - Operating System 4A331 - Statistical Methods	\otimes		
MA134 - Discrete Mathematics MA116 - Calculus II	8 8		

Figure 18

Step 2: When we have finished choosing courses, we can click "Next" button to skip to scheduling courses page, as Figure 19 shows below:

TEP 1 : Choosing Courses	STEP 2 : Scheduling Cou	irses S	ΓEP 3 : Getting Study Plan		
				ADD NEW SEMESTERS	
COURSE BIN				ADD NEW SEMESTERS	
Want to take:					
CS573 - Fundamentals of Cyl	persecurity	Ð			
CS511 - Computer Programm	ning	⊕			
CS494 - Complier Design		Ð			
CS146 - Introduction to Web	Programming and Project	t			
Development		Ð			
CS115 - Introduction to Com	puter Science	Ð			
CS135 - Discrete Structures		\oplus			
CS284 - Data Structures		Ð			
CS383 - Computer Organizat	ion & Programming	\oplus			
CS334 - Automata & Comput	ation	Ð			
MA222 - Probability and Sta	tistics	\oplus			
CS488 - Computer Architect	ire	Ð			
CS385 - Algorithms		Ð			
CS496 - Principles of Progra	mming Languages	Ð			
CS347 - Software Developm	ent Process	Ð			
CS423 - Senior Design I		Ð			
CS442 - Database Manageme	nt System	Ð			
CS424 - Senior Design II		Ð			
CS392 - Systems Programmi	ng	Ð			
CS492 - Operating System		\oplus			

Figure 19

In this page we should **click "ADD NEW SEMESTER"** button and a window will jump out as Figure 20 below:

How many semester	rs you want to add: 🚺 🔻	
Cancel	Add	

Figure 20

Here we select the number of **Semesters** we want to add and **click "Add"** button, then we will skip to another window as Figure 21 shows:

Semester	Year	Max Credits	Min Credits
Spring •	2014 •		
_	-		_
	Cancel	Add	



Here we select Semester and Year we want to add , we can also set the Max and Min credits we want to take in this semester, and **click "Add"** button to next page(Figure 22):

STEP 1 : Choosing Courses	STEP 2 : Scheduling Courses	STEP 3 : Getting Study Plan	
COURSE BIN		ADD NEW SEM	MESTERS
Want to take:			
		Spring 2014	\oplus
CS573 - Fundamentals of Cyb	-	opring 2011	∇
CS511 - Computer Programm	-		
CS494 - Complier Design	•	Summer 2014	\oplus
CS146 - Introduction to Web			
Development	Ð	E 11 2014	Φ.
CS115 - Introduction to Com	• -	Fall 2014	\oplus
CS135 - Discrete Structures	\oplus		
CS284 - Data Structures	Ð	Winter 2014	\oplus
CS383 - Computer Organizati			∇
CS334 - Automata & Computa	-		
MA222 - Probability and Stat	_		
CS488 - Computer Architectu	-		
CS385 - Algorithms	\oplus		
CS496 - Principles of Program	mming Languages 🛛 🕀		
CS347 - Software Developme	ent Process 🕀		
CS423 - Senior Design I	\oplus		
CS442 - Database Managemen	nt System 🕀		
CS424 - Senior Design II	\oplus		
CS392 - Systems Programmin	ng 🕀		
CS492 - Operating System	\oplus		

Figure 22

Here we can click the Year of Semester we selected and add courses from the course bin to the semester we want to take, as Figure 23 shows:

STEP 1 : Choosing Courses	STEP 2 : Scheduling Courses	STEP 3 : Getting Study Plan	
COURSE BIN		ADD NEW SEMESTERS	
Want to take:			~
CS573 - Fundamentals of Cyb	ersecurity \oplus	Spring 2014	\oplus
CS511 - Computer Programm	ning 🕀		
CS494 - Complier Design	\oplus	Summer 2014	\oplus
CS146 - Introduction to Web	Programming and Project		<u> </u>
Development	\oplus		
CS115 - Introduction to Comp	puter Science 🕀	Fall 2014	\oplus
CS135 - Discrete Structures	\oplus	CS284 - Data Structures	\otimes
CS284 - Data Structures	\oplus	CS383 - Computer Organization & Programming	\otimes
CS383 - Computer Organizati		CS334 - Automata & Computation	\otimes
CS334 - Automata & Compute	_	Total Credits: Minimun Credits: Maximun Credits:	
MA222 - Probability and Stat	-	Total Credits: Minimun Credits: Maximun Credits:	
CS488 - Computer Architectu	-		
CS385 - Algorithms	\oplus	Winter 2014	\oplus
CS496 - Principles of Program	nming Languages 🛛 🕀		
		Figure 23	

Step 3: If you let the system automatically generate the study plan for you in the first step, you can also get you study plan for each semester dynamically form the button "STEP 3 Getting Study Plan" Figure 24:



Study Plan

Semester 1

MA116 Calculus II MA115 Calculus I MGT111 Organizational Behavior & Social Psych CH282 Biochemistry Lab CH281 Bio & Biotech PEP111 Mechanics

Semester 2

CS573 Fundamentals of Cybersecurity CS511 Computer Programming CS494 Complier Design CS146 Introduction to Web Programming and Project Development MA331 Statistical Methods MA134 Discrete Mathematics

Semester 3

HSS371 Computers & Society HHS123 History of European Society and Culture to 1500 (3.0.3)

Figure 24

4. Troubleshooting

4.1 Frequently Asked questions

- *Q1:* Do I need to login either as a student or an administrator to interact with the system?
 - For administrator side, the answer is Yes, to get access to the actions of administrative side like adding/deleting courses/requirements/degree programs, you need to login as an admin with individual credentials as well.
 - For student side , the answer is NO, because the system is one time use for student and don't save information for student's study plan.
- Q2: Do I need to follow the rules of prerequisite and corequisite when I make study plan?
 - Yes, you can make a study successfully if you do not follow the rules, and the system will show error messages if you brake the rules.
- *Q3*:For "Course Add" function; is there any preferred format to enter prerequisites and corequisites?
 - Yes; you need to enter these course related information with such format <prefixes><course number> with space/and/or between each course. For example: "CS105 and CS125"; "CS105 CS145"; CS105 or CS201" and so on.

4.2 Error Codes and Messages

1.You should notice that because the corses have prerequisite and corequisite relationship, so some courses have such limit must be chosen after other courses in their requisite have been chosen. If we do not do this way, we will see error hint in as Figure 25:

The page at 127.0.0.1:9000 says:	
check the prerequisite constraints! CS115	
	ок

Figure 25

2. You should not enter the empty information in the input box, if so, the system will show error message as Figure 26:

	ENS UTER ENCE Student	Schedu	ing Manageme	nt System
Course	Course Group	Requirement	Degree Program	Help
mple Requirement -> New Sin	nple Requrirement			
Title:				
Please choose a course group	: (Please choose course group) urses are required in this group.	T	Courses in the course group	
subn	nit			
The page at	t app.team10.cloudbees.net s	×		
Please enter a	title for the simple requirement!			
	ок			
		Eigung 2		

Figure 26

4.3 Note

- Courses to be added for initial tests are stated in the supporting document of "Demonstration Guideline".
- Initial version of system involves actual course and requirements data taken from Steven's Institute of Technology webpage.
- Administrators should get their authentication initials in person from system manager.
- There is no login info required for student side due to the fact that there is no personal information of students needed to build a study plan.