



Student Registration

Database Management System

BY

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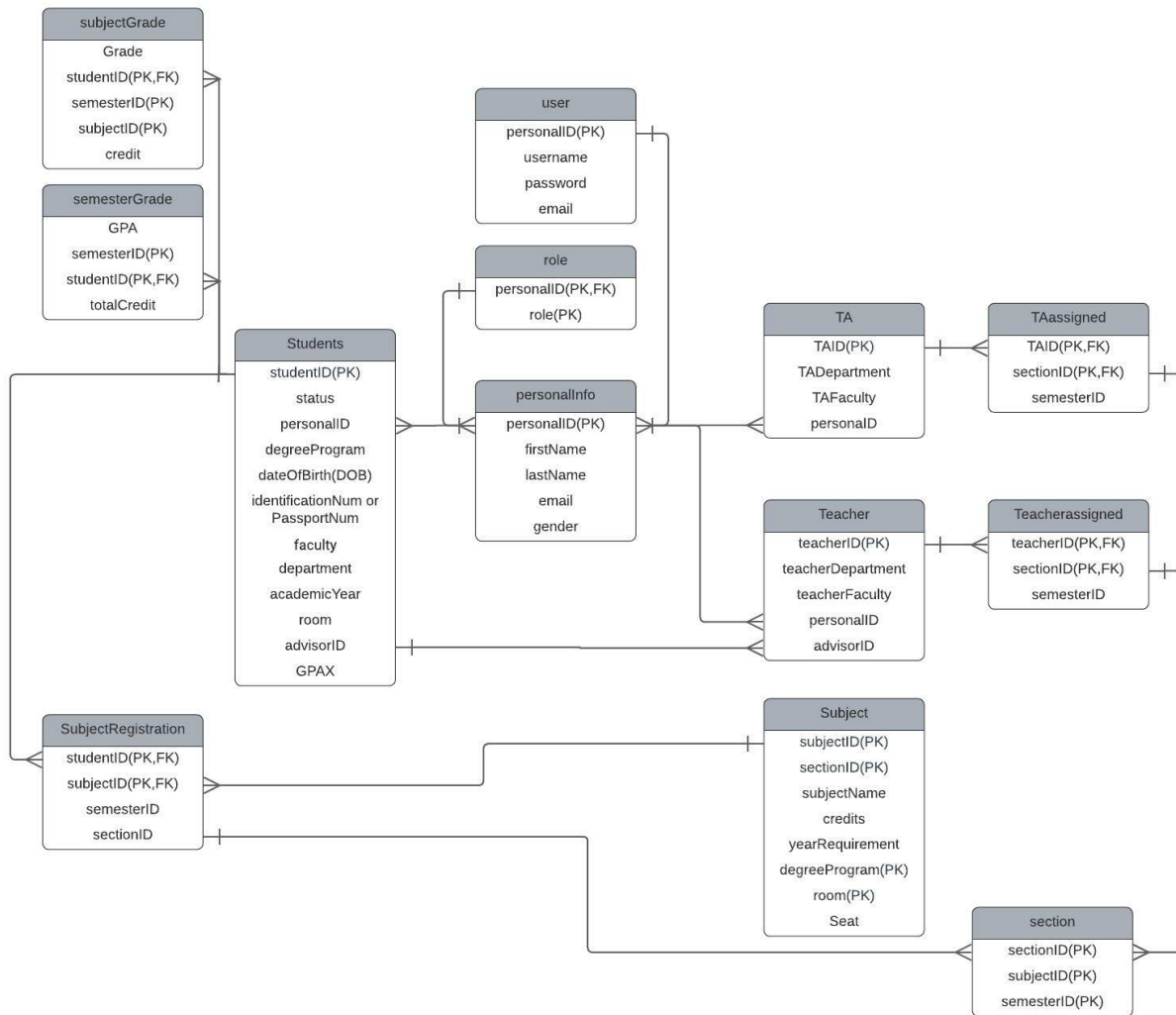
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Scope of the Database

The database aims to provide that general information of student registration. The students can only register the subjects according to their faculty and departments. There are three roles in this Database: students, teacher and TAs. Each role has its own unique feature. Each member can either be students or TA's or both. However, each teacher can only have a teacher role. For the unique features of the student role. Students can have GPAX of null if they are the first year student and do not finish semester 1 yet. Students can also register any subjects that are available to them and not overlapping with other subjects. Some subjects require the student to finish the prerequisite first. For example, Calculus 3 requires the student to study Calculus 1 and Calculus 2 first. Some subjects required a degree program. Some subjects have the academic year set so that first year students cannot register for a subject for second year students but students who failed that subject that is in third or fourth year can register. Students cannot register less than 10 credits per semester. Some subjects require the room of the students for example room A or B. Each student can only have one advisor. Student's advisor is only a teacher from the department that the student is in. Students with less than 2.0 GPAX will have a probation status. Students with less than 1.5 GPAX will get retired immediately. When graduated students with more than 3.6 GPAX will get a first class honor, students with more than 3.25 GPAX will get a second class honor.

ER Diagram



Rules:

1. Each student and teacher have their own ID.
2. Teachers can teach no more than 3 subjects.
3. Students can't register overlapping class schedules.
4. Some Subjects required a Degree program.
5. Some Subjects required an Academic year.
6. Some Subjects need to finish the subject requirement before register Ex. Calculus 2
Student need to study Calculus 1 first
7. Students can't register a subject with less than 10 credits per semester.
8. Some subjects required Room of student Ex. A or B
9. Students can be TA.
10. One student can have one advisor from the teacher.
11. Teachers can only be advisors to a student in their own department.

Data Dictionary

Entity - personInfo: Personal Information each individual			
Attributes	Data Types	Constraints	Descriptions
personalID	varchar(100)	NOT NULL	Personal identification code.
FirstName	varchar(100)	NOT NULL	First name of student, TA and teachers.
LastName	varchar(100)	NOT NULL	Last name of student, TA and teachers.
Email	varchar(100)	NOT NULL	Email of student, TA and Teacher.
Gender	varchar(100)	NOT NULL	Gender of person.

Entity - Role			
Attributes	Data Types	Constraints	Descriptions
personalID	varchar(100)	NOT NULL	Id of each member that the system collects. Including students, teachers and TAs.
role	varchar(100)	NOT NULL	The role of each member that the system collects. Including students, teachers and TAs.

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Entity - SemesterGrade			
Attributes	Data Types	Constraints	Descriptions
studentID	int(11)	NOT NULL	Semester of the subject taken.
semesterID	varchar(100)	NOT NULL	The id of each subject.
GPA	int(11)	NOT NULL	Teach identification code.
totalCredit	float	NOT NULL	The total credit of each semester

Entity - Students: Student Information			
Attribute	Data type	Constraints	Descriptions
StudentID	int(11)	NOT NULL	Id of each student, two students can not have the same id.
Status	varchar(100)	NOT NULL	The status of each student. Probation, Normal, Drop or retired.
personalId	varchar(100)	NOT NULL	Id of each member that the system collects. Including students, teachers and TAs.
DegreeProgram	varchar(100)	NOT NULL	The degree of each student.
DOB	varchar(100)	NOT NULL	The date of birth of each student.
IdentificationNum	varchar(100)	NOT NULL	The national id or passport id of each student.
Faculty	varchar(100)	NOT NULL	The faculty of each student.
Department	varchar(100)	NOT NULL	The department of each student.
AcadYear	int(11)	NOT NULL	The academic year of each

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			students.
Room	varchar(100)	NOT NULL	The room that each student is assigned to.
AdvisorId	varchar(100)	NULL	The id of the student's advisor.
GPAX	float	NULL	The GPAX of each student. It can be null if the student is a freshy and does not have any GPAX yet.

Entity - SubjectGrade			
Attributes	Data Types	Constraints	Descriptions
studentID	int(11)	NOT NULL	The id of each student.
subjectID	varchar(100)	NOT NULL	The identification code of the subject
semesterID	varchar(100)	NOT NULL	The identification code of the semester.
credit	float	NOT NULL	The credit of the subject
Grade	float	NULL	The grade of the student.

Entity - SubjectRegistration: Information for Subject Registration			
Attributes	Data Types	Constraints	Descriptions
studentID	int(11)	NOT NULL	Personal student identification code.
subjectID	varchar(100)	NOT NULL	Identification code for a specific subject.
semesterID	varchar(100)	NOT NULL	Semester of the subject taken.

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sectionID	varchar(100)	NOT NULL	Identification code of the section
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Entity - Subjects: Subject Information			
Attributes	Data Types	Constraints	Descriptions
varchar(100)	varchar(100)	NOT NULL	Identification code for a specific subject.
subjectName	varchar(100)	NOT NULL	Specific name of a subject.
sectionID	varchar(100)	NOT NULL	Identification code of the section
semesterID	varchar(100)	NOT NULL	Semester of the subject taken.
credits	int(11)	NOT NULL	Value of credit of a specific subject.
yearRequirement	varchar(100)	NOT NULL	Required years to take.
degreeProgram	varchar(100)	NOT NULL	Program of which degree you are taking (BS, Masteral, or Doctorate).
room	varchar(100)	NOT NULL	Identification name of which classroom.
Seat	int(11)	NOT NULL	Seat number of the student registered.

Entity - TA: Information of Teaching Assistant (TA)			
Attributes	Data Types	Constraints	Descriptions
TAID	varchar(100)	NOT NULL	TAs identification code.
TADepartment	varchar(100)	NOT NULL	The department which TA belongs to.

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TAFaculty	varchar(100)	NOT NULL	The faculty where TA belongs to.
personalID	varchar(100)	NOT NULL	Id of each member that the system collects. Including students, teachers and TAs.

Entity - TAassigned: Information where TA's are assigned			
Attributes	Data Types	Constraints	Descriptions
TAID	varchar(100)	NOT NULL	TA's identification code.
sectionID	varchar(100)	NOT NULL	Identification code for sections.
semesterID	varchar(100)	NOT NULL	Semester of the subject taken.

Entity - Teacher: Information of Teacher			
Attributes	Data Types	Constraints	Descriptions
teacherID	varchar(100)	NOT NULL	Teach identification code.
teacherDepartment	varchar(100)	NOT NULL	The department that the teacher belongs to.
teacherFaculty	varchar(100)	NOT NULL	The faculty that teacher belongs to.
personalID	varchar(100)	NOT NULL	Id of each member that the system collects. Including students, teachers and TAs.
advisorID	varchar(100)	NULL	The id of the student's advisor.

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Entity - Teacherassigned: Information of where Teachers are assigned			
Attributes	Data Types	Constraints	Descriptions
teacherID	varchar(100)	NOT NULL	Teach identification code.
subjectID	varchar(100)	NOT NULL	The id of each subject.
semesterID	varchar(100)	NOT NULL	Semester of the subject taken.

Entity - User			
Attributes	Data Types	Constraints	Descriptions
username	varchar(100)	NOT NULL	Data for username
password	varchar(100)	NOT NULL	Data for password
email	varchar(100)	NOT NULL	Email Address of user
personalID	varchar(100)	NOT NULL	ID of each member that the system collects. Including students, teachers and TAs.
super	int(11)	NOT NULL	

Cross Reference

	Teacher	Student	TAs
View all students id	Yes	Yes	Yes
View all students status	Yes	No	Yes
View all students Date of Birth	Yes	No	No
View all students passport/ national id	Yes	No	No
View all students Faculty	Yes	Yes	Yes
View all students Department	Yes	Yes	Yes
View all student who join which each room	Yes	Yes	Yes
View all advisor name	Yes	Yes	Yes
View all students GPAX	Yes	No	Yes
View all students first name	Yes	Yes	Yes
View all students last name	Yes	Yes	Yes
View all Teachers id	Yes	No	No
View all Teachers First name	Yes	Yes	Yes
View all Teachers Last Name	Yes	Yes	Yes
View all students Email	Yes	Yes	Yes

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View all students Gender	Yes	Yes	Yes
View all roles	Yes	Yes	Yes
Edit roles	Yes (Change student to TAs)	No	No
Edit Name	Yes	No(require Teacher permission)	No(require Teacher permission)
View all subjects name	Yes	No (only applicable subjects can be seen)`	Yes
Register subjects	No	Yes (Only applicable subjects)	No
Register to be TA's for the Subject	No	No	Yes
Register to be the teacher for the subject	Yes	No	No
Be advisor	Yes	No	No
View all time table	Yes	No (time table can only be seen for the applicable subject)	Yes
View students time table	Yes	Yes (only your time table can be seen)	Yes
Register as a new student	No	No (a current student cannot register yourself as a new student)	No
Register as a new teacher	No (a current teacher cannot register yourself as a new teacher)	No	No

Complex transaction

Figure 1: The student registers a subject

Related table: Students, PersonalInfo, SubjectRegistration, Subject, and TimeTable

The student registers the subject on the website. The website then checks the personalId and student id then validates it. Faculty, department, degree, status, room, academic year, room and GPAX is displayed from the data in the student table. Advisor name is displayed by validating the advisorId from the teacher table then get the personalId to validate in the personalInfo table to display the name. Subjects are displayed by validating the studentid then check the year requirement and degreeProgram then display the name, section, semester and credit of the subject.

ลงทะเบียนเรียนปกติ

Registration-432003

Step 1

เลือกวิชาและเลือก Section

Step 2

ยืนยันการลงทะเบียน

Step 3

พบอาจารย์ที่ปรึกษา

Step 4

รับทราบผลการลงทะเบียน

Step 5

ชำระเงิน

รหัสนักศึกษา : 54270022

ชื่อ-สกุล(ท.): นายพญักษ์ จันท์สุขโข

ชื่อ-สกุล(อ.): Mr.PHRUEK CHANSUKHO

คณะ : คณะวิศวกรรมศาสตร์

ภาควิชา : ภาควิชาวิศวกรรมโยธา

สาขาวิชา : วิศวกรรมโยธา

สภาพนักศึกษา : ปกติ

ประเภทนักศึกษา : ปริญญาตรี 4 ปี (หลักสูตรนานาชาติ)

ห้อง : A ชั้นปี : 2

โครงการหลักสูตร : โครงการสหกิจศึกษา สาขาวิชาวิศวกรรมโยธา หลักสูตรนานาชาติ

อาจารย์ที่ปรึกษาชั้นปี : ดร.ธิเบตพงศ์ อธิสกุล

อาจารย์ที่ปรึกษาวิทยา

เกรดเฉลี่ยสะสม 3.72 (GPAX) :

ภาค/ปีการศึกษา : 1/2555

พิเศษ :

สถานะอื่นๆ :

วันที่ลงทะเบียน : 07/06/2555

รายวิชาที่ลงทะเบียน

เพิ่มวิชา

ลบวิชา

ลำดับที่	รหัสวิชา	ชื่อวิชา	หน่วยกิต	กลุ่ม	เงื่อนไขการลงทะเบียน
1	CVE221	SURVEYING	3	1	Credit
2	CVE223	SURVEYING PRACTICES	1	1	Credit
3	CVE233	MECHANICS OF MATERIALS	3	1	Credit
4	CVE236	CIVIL ENGINEERING MATERIALS	2	1	Credit
5	LNG104	CONTENT-BASED LANGUAGE LEARNING I	3	เลือกกลุ่ม	Credit
6	MTH201	LINEAR ALGEBRA AND VECTOR CALCULUS	3	เลือกกลุ่ม	Credit

จำนวนวิชา : 4 วิชา

จำนวนหน่วยกิต : 9 หน่วยกิต

ถัดไป >>

Figure 2: The system creates time table for the student

Related table: TimeTable, Subject, Teacher, Teacherassigned, SubjectRegistration, Student, and PersonalInfo

The system creates a timetable after the student finishes the registration. Timetable is created by validating the studentid then validating the subjectid to get the list of the subjects that the student registered. After that it gets the teacher name from the personalInfo table by getting personalId from the teacherid in the teacher table. Then it gets the day, starttime, and endtime for each subject timetable from the TimeTable table by validating the subjectid. After it gets all the needed information it will display the full student timetable.

สอบถามตารางสอนนักศึกษา

Day	08:00-08:20	08:30-08:50	09:00-09:20	09:30-09:50	10:00-10:20	10:30-10:50	11:00-11:20	11:30-11:50	12:00-12:20	12:30-12:50	13:00-13:20	13:30-13:50	14:00-14:20	14:30-14:50	15:00-15:20	15:30-15:50	16:00-16:20	16:30-16:50	17:00-17:20
Mon	CVE221 S1 CB1103 สุรพงศ์			CVE223 S1 Dummy จักรพันธ์															
Tue										CVE233 S1 Dummy จักรพันธ์			CVE233 S1 Dummy						
Wed	CVE236 S1 Dummy จักรพันธ์																		
Thu												MTH201 S1 SC2216 นิจขวัญ							
Fri																			
Sat																	LNG104 S2 Dummy อุสมาน ,สมบัติ		
Sun																			

m

<< ย้อนกลับ

Figure 3: Student select the section for each subject

Related table: TimeTable, Subject, Teacher, SubjectRegistration, Student, and PersonalInfo

Before the student selects the section. The system will validate the studentid and get the subjectid from the SubjectRegistration table and send the subjectid to the Subject table to validate and get the subjectName and section from the Subject table. Timetable table also validates the subjectid to get the startTime endTime and day of each section of each subject. PersonalInfo table also validates the personalid from the teacher table by getting and validating teacherid from the subject table.

เลือก Section

รหัสวิชา : LNG104:CONTENT-BASED LANGUAGE LEARNING I (3 หน่วยกิต) version 2554
เงื่อนไขการลงทะเบียน : Credit
เวลาสอน :

เลือก Section

เลือก	กลุ่ม	จำนวนที่นั่งคงเหลือ	ห้องเรียน	เวลาเรียน	อาจารย์ผู้สอน
<input type="radio"/>	1	20	อาคาร Dummy Dummy	จ. 08.00-08:50 น.	1. อ.สมบัติ กังกาญจนวงศ์ 2. รศ.ดร.จรัสดาว อินทรทัศน์
<input checked="" type="radio"/>	2	19	อาคาร Dummy Dummy	ส. 16.00-16.50 น.	1. อ.อุสมาน นีรูวาห์ 2. อ.สมบัติ กังกาญจนวงศ์

จำนวน 2 รายการ << >> หน้า 1 / 1

<< ย้อนกลับ บันทึก

Figure 4: Student search the subject

Related table: TimeTable, Subject, Teacher, SubjectRegistration, Student, and PersonalInfo

The system gathers the input from the student to search up for the subject in the form of Subject name and to the subject table to get the subjectid, section, room, yearRequirement and degreeProgram. Then, the system will validate the studentid. Subject table will send the teacherId to the teacher table and send the personalId to personalInfo table to get the firstName and Lastname of the teacher. The subject table also sends subjectid to get the day, startTime,endTime of each section and each subject from the TimeTable table by validating the subjectid from the subject table. Then, all of the information will be displayed.

เลือกวิชา

รหัสวิชา : MTH201|LINEAR ALGEBRA AND VECTOR CALCULUS (3 หน่วยกิต) ค้นหาวิชา

หน่วยกิตลงทะเบียน : 3

เงื่อนไขการลงทะเบียน : Credit

เวลาสอน :

เลือก Section

เลือก	กลุ่ม	จำนวนที่นั่งคงเหลือ	ห้องเรียน	เวลาเรียน	อาจารย์ผู้สอน
<input checked="" type="radio"/>	1	18	อาคารคณะวิทยาศาสตร์ SC2216	พ.อ. 13.30-14.20 น.	ผศ.มิ่งขวัญ เทียบอุประบุรุษ
<input type="radio"/>	2	20	อาคารคณะวิทยาศาสตร์ SC2312(A)	จ. 08.00-08:50 น.	ผศ.ภูษงค์ แพรขาว

จำนวน 2 รายการ ๑๑ ๑๒ ๑๓ ๑๔ ๑๕ ๑๖ ๑๗ ๑๘ ๑๙ ๒๐ ๒๑ ๒๒ ๒๓ ๒๔ ๒๕ ๒๖ ๒๗ ๒๘ ๒๙ ๓๐ ๓๑ ๓๒ ๓๓ ๓๔ ๓๕ ๓๖ ๓๗ ๓๘ ๓๙ ๔๐ ๔๑ ๔๒ ๔๓ ๔๔ ๔๕ ๔๖ ๔๗ ๔๘ ๔๙ ๕๐ ๕๑ ๕๒ ๕๓ ๕๔ ๕๕ ๕๖ ๕๗ ๕๘ ๕๙ ๖๐ ๖๑ ๖๒ ๖๓ ๖๔ ๖๕ ๖๖ ๖๗ ๖๘ ๖๙ ๗๐ ๗๑ ๗๒ ๗๓ ๗๔ ๗๕ ๗๖ ๗๗ ๗๘ ๗๙ ๘๐ ๘๑ ๘๒ ๘๓ ๘๔ ๘๕ ๘๖ ๘๗ ๘๘ ๘๙ ๙๐ ๙๑ ๙๒ ๙๓ ๙๔ ๙๕ ๙๖ ๙๗ ๙๘ ๙๙ ๑๐๐ ๑๐๑ ๑๐๒ ๑๐๓ ๑๐๔ ๑๐๕ ๑๐๖ ๑๐๗ ๑๐๘ ๑๐๙ ๑๑๐ ๑๑๑ ๑๑๒ ๑๑๓ ๑๑๔ ๑๑๕ ๑๑๖ ๑๑๗ ๑๑๘ ๑๑๙ ๑๒๐ ๑๒๑ ๑๒๒ ๑๒๓ ๑๒๔ ๑๒๕ ๑๒๖ ๑๒๗ ๑๒๘ ๑๒๙ ๑๓๐ ๑๓๑ ๑๓๒ ๑๓๓ ๑๓๔ ๑๓๕ ๑๓๖ ๑๓๗ ๑๓๘ ๑๓๙ ๑๔๐ ๑๔๑ ๑๔๒ ๑๔๓ ๑๔๔ ๑๔๕ ๑๔๖ ๑๔๗ ๑๔๘ ๑๔๙ ๑๕๐ ๑๕๑ ๑๕๒ ๑๕๓ ๑๕๔ ๑๕๕ ๑๕๖ ๑๕๗ ๑๕๘ ๑๕๙ ๑๖๐ ๑๖๑ ๑๖๒ ๑๖๓ ๑๖๔ ๑๖๕ ๑๖๖ ๑๖๗ ๑๖๘ ๑๖๙ ๑๗๐ ๑๗๑ ๑๗๒ ๑๗๓ ๑๗๔ ๑๗๕ ๑๗๖ ๑๗๗ ๑๗๘ ๑๗๙ ๑๘๐ ๑๘๑ ๑๘๒ ๑๘๓ ๑๘๔ ๑๘๕ ๑๘๖ ๑๘๗ ๑๘๘ ๑๘๙ ๑๙๐ ๑๙๑ ๑๙๒ ๑๙๓ ๑๙๔ ๑๙๕ ๑๙๖ ๑๙๗ ๑๙๘ ๑๙๙ ๒๐๐ ๒๐๑ ๒๐๒ ๒๐๓ ๒๐๔ ๒๐๕ ๒๐๖ ๒๐๗ ๒๐๘ ๒๐๙ ๒๑๐ ๒๑๑ ๒๑๒ ๒๑๓ ๒๑๔ ๒๑๕ ๒๑๖ ๒๑๗ ๒๑๘ ๒๑๙ ๒๒๐ ๒๒๑ ๒๒๒ ๒๒๓ ๒๒๔ ๒๒๕ ๒๒๖ ๒๒๗ ๒๒๘ ๒๒๙ ๒๓๐ ๒๓๑ ๒๓๒ ๒๓๓ ๒๓๔ ๒๓๕ ๒๓๖ ๒๓๗ ๒๓๘ ๒๓๙ ๒๔๐ ๒๔๑ ๒๔๒ ๒๔๓ ๒๔๔ ๒๔๕ ๒๔๖ ๒๔๗ ๒๔๘ ๒๔๙ ๒๕๐ ๒๕๑ ๒๕๒ ๒๕๓ ๒๕๔ ๒๕๕ ๒๕๖ ๒๕๗ ๒๕๘ ๒๕๙ ๒๖๐ ๒๖๑ ๒๖๒ ๒๖๓ ๒๖๔ ๒๖๕ ๒๖๖ ๒๖๗ ๒๖๘ ๒๖๙ ๒๗๐ ๒๗๑ ๒๗๒ ๒๗๓ ๒๗๔ ๒๗๕ ๒๗๖ ๒๗๗ ๒๗๘ ๒๗๙ ๒๘๐ ๒๘๑ ๒๘๒ ๒๘๓ ๒๘๔ ๒๘๕ ๒๘๖ ๒๘๗ ๒๘๘ ๒๘๙ ๒๙๐ ๒๙๑ ๒๙๒ ๒๙๓ ๒๙๔ ๒๙๕ ๒๙๖ ๒๙๗ ๒๙๘ ๒๙๙ ๓๐๐ ๓๐๑ ๓๐๒ ๓๐๓ ๓๐๔ ๓๐๕ ๓๐๖ ๓๐๗ ๓๐๘ ๓๐๙ ๓๑๐ ๓๑๑ ๓๑๒ ๓๑๓ ๓๑๔ ๓๑๕ ๓๑๖ ๓๑๗ ๓๑๘ ๓๑๙ ๓๒๐ ๓๒๑ ๓๒๒ ๓๒๓ ๓๒๔ ๓๒๕ ๓๒๖ ๓๒๗ ๓๒๘ ๓๒๙ ๓๓๐ ๓๓๑ ๓๓๒ ๓๓๓ ๓๓๔ ๓๓๕ ๓๓๖ ๓๓๗ ๓๓๘ ๓๓๙ ๓๔๐ ๓๔๑ ๓๔๒ ๓๔๓ ๓๔๔ ๓๔๕ ๓๔๖ ๓๔๗ ๓๔๘ ๓๔๙ ๓๕๐ ๓๕๑ ๓๕๒ ๓๕๓ ๓๕๔ ๓๕๕ ๓๕๖ ๓๕๗ ๓๕๘ ๓๕๙ ๓๖๐ ๓๖๑ ๓๖๒ ๓๖๓ ๓๖๔ ๓๖๕ ๓๖๖ ๓๖๗ ๓๖๘ ๓๖๙ ๓๗๐ ๓๗๑ ๓๗๒ ๓๗๓ ๓๗๔ ๓๗๕ ๓๗๖ ๓๗๗ ๓๗๘ ๓๗๙ ๓๘๐ ๓๘๑ ๓๘๒ ๓๘๓ ๓๘๔ ๓๘๕ ๓๘๖ ๓๘๗ ๓๘๘ ๓๘๙ ๓๙๐ ๓๙๑ ๓๙๒ ๓๙๓ ๓๙๔ ๓๙๕ ๓๙๖ ๓๙๗ ๓๙๘ ๓๙๙ ๔๐๐ ๔๐๑ ๔๐๒ ๔๐๓ ๔๐๔ ๔๐๕ ๔๐๖ ๔๐๗ ๔๐๘ ๔๐๙ ๔๑๐ ๔๑๑ ๔๑๒ ๔๑๓ ๔๑๔ ๔๑๕ ๔๑๖ ๔๑๗ ๔๑๘ ๔๑๙ ๔๒๐ ๔๒๑ ๔๒๒ ๔๒๓ ๔๒๔ ๔๒๕ ๔๒๖ ๔๒๗ ๔๒๘ ๔๒๙ ๔๓๐ ๔๓๑ ๔๓๒ ๔๓๓ ๔๓๔ ๔๓๕ ๔๓๖ ๔๓๗ ๔๓๘ ๔๓๙ ๔๔๐ ๔๔๑ ๔๔๒ ๔๔๓ ๔๔๔ ๔๔๕ ๔๔๖ ๔๔๗ ๔๔๘ ๔๔๙ ๔๕๐ ๔๕๑ ๔๕๒ ๔๕๓ ๔๕๔ ๔๕๕ ๔๕๖ ๔๕๗ ๔๕๘ ๔๕๙ ๔๖๐ ๔๖๑ ๔๖๒ ๔๖๓ ๔๖๔ ๔๖๕ ๔๖๖ ๔๖๗ ๔๖๘ ๔๖๙ ๔๗๐ ๔๗๑ ๔๗๒ ๔๗๓ ๔๗๔ ๔๗๕ ๔๗๖ ๔๗๗ ๔๗๘ ๔๗๙ ๔๘๐ ๔๘๑ ๔๘๒ ๔๘๓ ๔๘๔ ๔๘๕ ๔๘๖ ๔๘๗ ๔๘๘ ๔๘๙ ๔๙๐ ๔๙๑ ๔๙๒ ๔๙๓ ๔๙๔ ๔๙๕ ๔๙๖ ๔๙๗ ๔๙๘ ๔๙๙ ๕๐๐ ๕๐๑ ๕๐๒ ๕๐๓ ๕๐๔ ๕๐๕ ๕๐๖ ๕๐๗ ๕๐๘ ๕๐๙ ๕๑๐ ๕๑๑ ๕๑๒ ๕๑๓ ๕๑๔ ๕๑๕ ๕๑๖ ๕๑๗ ๕๑๘ ๕๑๙ ๕๒๐ ๕๒๑ ๕๒๒ ๕๒๓ ๕๒๔ ๕๒๕ ๕๒๖ ๕๒๗ ๕๒๘ ๕๒๙ ๕๓๐ ๕๓๑ ๕๓๒ ๕๓๓ ๕๓๔ ๕๓๕ ๕๓๖ ๕๓๗ ๕๓๘ ๕๓๙ ๕๔๐ ๕๔๑ ๕๔๒ ๕๔๓ ๕๔๔ ๕๔๕ ๕๔๖ ๕๔๗ ๕๔๘ ๕๔๙ ๕๕๐ ๕๕๑ ๕๕๒ ๕๕๓ ๕๕๔ ๕๕๕ ๕๕๖ ๕๕๗ ๕๕๘ ๕๕๙ ๕๖๐ ๕๖๑ ๕๖๒ ๕๖๓ ๕๖๔ ๕๖๕ ๕๖๖ ๕๖๗ ๕๖๘ ๕๖๙ ๕๗๐ ๕๗๑ ๕๗๒ ๕๗๓ ๕๗๔ ๕๗๕ ๕๗๖ ๕๗๗ ๕๗๘ ๕๗๙ ๕๘๐ ๕๘๑ ๕๘๒ ๕๘๓ ๕๘๔ ๕๘๕ ๕๘๖ ๕๘๗ ๕๘๘ ๕๘๙ ๕๙๐ ๕๙๑ ๕๙๒ ๕๙๓ ๕๙๔ ๕๙๕ ๕๙๖ ๕๙๗ ๕๙๘ ๕๙๙ ๖๐๐ ๖๐๑ ๖๐๒ ๖๐๓ ๖๐๔ ๖๐๕ ๖๐๖ ๖๐๗ ๖๐๘ ๖๐๙ ๖๑๐ ๖๑๑ ๖๑๒ ๖๑๓ ๖๑๔ ๖๑๕ ๖๑๖ ๖๑๗ ๖๑๘ ๖๑๙ ๖๒๐ ๖๒๑ ๖๒๒ ๖๒๓ ๖๒๔ ๖๒๕ ๖๒๖ ๖๒๗ ๖๒๘ ๖๒๙ ๖๓๐ ๖๓๑ ๖๓๒ ๖๓๓ ๖๓๔ ๖๓๕ ๖๓๖ ๖๓๗ ๖๓๘ ๖๓๙ ๖๔๐ ๖๔๑ ๖๔๒ ๖๔๓ ๖๔๔ ๖๔๕ ๖๔๖ ๖๔๗ ๖๔๘ ๖๔๙ ๖๕๐ ๖๕๑ ๖๕๒ ๖๕๓ ๖๕๔ ๖๕๕ ๖๕๖ ๖๕๗ ๖๕๘ ๖๕๙ ๖๖๐ ๖๖๑ ๖๖๒ ๖๖๓ ๖๖๔ ๖๖๕ ๖๖๖ ๖๖๗ ๖๖๘ ๖๖๙ ๖๗๐ ๖๗๑ ๖๗๒ ๖๗๓ ๖๗๔ ๖๗๕ ๖๗๖ ๖๗๗ ๖๗๘ ๖๗๙ ๖๘๐ ๖๘๑ ๖๘๒ ๖๘๓ ๖๘๔ ๖๘๕ ๖๘๖ ๖๘๗ ๖๘๘ ๖๘๙ ๖๙๐ ๖๙๑ ๖๙๒ ๖๙๓ ๖๙๔ ๖๙๕ ๖๙๖ ๖๙๗ ๖๙๘ ๖๙๙ ๗๐๐ ๗๐๑ ๗๐๒ ๗๐๓ ๗๐๔ ๗๐๕ ๗๐๖ ๗๐๗ ๗๐๘ ๗๐๙ ๗๑๐ ๗๑๑ ๗๑๒ ๗๑๓ ๗๑๔ ๗๑๕ ๗๑๖ ๗๑๗ ๗๑๘ ๗๑๙ ๗๒๐ ๗๒๑ ๗๒๒ ๗๒๓ ๗๒๔ ๗๒๕ ๗๒๖ ๗๒๗ ๗๒๘ ๗๒๙ ๗๓๐ ๗๓๑ ๗๓๒ ๗๓๓ ๗๓๔ ๗๓๕ ๗๓๖ ๗๓๗ ๗๓๘ ๗๓๙ ๗๔๐ ๗๔๑ ๗๔๒ ๗๔๓ ๗๔๔ ๗๔๕ ๗๔๖ ๗๔๗ ๗๔๘ ๗๔๙ ๗๕๐ ๗๕๑ ๗๕๒ ๗๕๓ ๗๕๔ ๗๕๕ ๗๕๖ ๗๕๗ ๗๕๘ ๗๕๙ ๗๖๐ ๗๖๑ ๗๖๒ ๗๖๓ ๗๖๔ ๗๖๕ ๗๖๖ ๗๖๗ ๗๖๘ ๗๖๙ ๗๗๐ ๗๗๑ ๗๗๒ ๗๗๓ ๗๗๔ ๗๗๕ ๗๗๖ ๗๗๗ ๗๗๘ ๗๗๙ ๗๘๐ ๗๘๑ ๗๘๒ ๗๘๓ ๗๘๔ ๗๘๕ ๗๘๖ ๗๘๗ ๗๘๘ ๗๘๙ ๗๙๐ ๗๙๑ ๗๙๒ ๗๙๓ ๗๙๔ ๗๙๕ ๗๙๖ ๗๙๗ ๗๙๘ ๗๙๙ ๘๐๐ ๘๐๑ ๘๐๒ ๘๐๓ ๘๐๔ ๘๐๕ ๘๐๖ ๘๐๗ ๘๐๘ ๘๐๙ ๘๑๐ ๘๑๑ ๘๑๒ ๘๑๓ ๘๑๔ ๘๑๕ ๘๑๖ ๘๑๗ ๘๑๘ ๘๑๙ ๘๒๐ ๘๒๑ ๘๒๒ ๘๒๓ ๘๒๔ ๘๒๕ ๘๒๖ ๘๒๗ ๘๒๘ ๘๒๙ ๘๓๐ ๘๓๑ ๘๓๒ ๘๓๓ ๘๓๔ ๘๓๕ ๘๓๖ ๘๓๗ ๘๓๘ ๘๓๙ ๘๔๐ ๘๔๑ ๘๔๒ ๘๔๓ ๘๔๔ ๘๔๕ ๘๔๖ ๘๔๗ ๘๔๘ ๘๔๙ ๘๕๐ ๘๕๑ ๘๕๒ ๘๕๓ ๘๕๔ ๘๕๕ ๘๕๖ ๘๕๗ ๘๕๘ ๘๕๙ ๘๖๐ ๘๖๑ ๘๖๒ ๘๖๓ ๘๖๔ ๘๖๕ ๘๖๖ ๘๖๗ ๘๖๘ ๘๖๙ ๘๗๐ ๘๗๑ ๘๗๒ ๘๗๓ ๘๗๔ ๘๗๕ ๘๗๖ ๘๗๗ ๘๗๘ ๘๗๙ ๘๘๐ ๘๘๑ ๘๘๒ ๘๘๓ ๘๘๔ ๘๘๕ ๘๘๖ ๘๘๗ ๘๘๘ ๘๘๙ ๘๙๐ ๘๙๑ ๘๙๒ ๘๙๓ ๘๙๔ ๘๙๕ ๘๙๖ ๘๙๗ ๘๙๘ ๘๙๙ ๙๐๐ ๙๐๑ ๙๐๒ ๙๐๓ ๙๐๔ ๙๐๕ ๙๐๖ ๙๐๗ ๙๐๘ ๙๐๙ ๙๑๐ ๙๑๑ ๙๑๒ ๙๑๓ ๙๑๔ ๙๑๕ ๙๑๖ ๙๑๗ ๙๑๘ ๙๑๙ ๙๒๐ ๙๒๑ ๙๒๒ ๙๒๓ ๙๒๔ ๙๒๕ ๙๒๖ ๙๒๗ ๙๒๘ ๙๒๙ ๙๓๐ ๙๓๑ ๙๓๒ ๙๓๓ ๙๓๔ ๙๓๕ ๙๓๖ ๙๓๗ ๙๓๘ ๙๓๙ ๙๔๐ ๙๔๑ ๙๔๒ ๙๔๓ ๙๔๔ ๙๔๕ ๙๔๖ ๙๔๗ ๙๔๘ ๙๔๙ ๙๕๐ ๙๕๑ ๙๕๒ ๙๕๓ ๙๕๔ ๙๕๕ ๙๕๖ ๙๕๗ ๙๕๘ ๙๕๙ ๙๖๐ ๙๖๑ ๙๖๒ ๙๖๓ ๙๖๔ ๙๖๕ ๙๖๖ ๙๖๗ ๙๖๘ ๙๖๙ ๙๗๐ ๙๗๑ ๙๗๒ ๙๗๓ ๙๗๔ ๙๗๕ ๙๗๖ ๙๗๗ ๙๗๘ ๙๗๙ ๙๘๐ ๙๘๑ ๙๘๒ ๙๘๓ ๙๘๔ ๙๘๕ ๙๘๖ ๙๘๗ ๙๘๘ ๙๘๙ ๙๙๐ ๙๙๑ ๙๙๒ ๙๙๓ ๙๙๔ ๙๙๕ ๙๙๖ ๙๙๗ ๙๙๘ ๙๙๙ ๑๐๐๐

หน้า 1 / 1

<< ย้อนกลับ บันทึก

Figure 5: Student meet with the advisor

Related table: Subject, Teacher, Students, and PersonalInfo

Some subjects require advisor permission before registration. The subjectid is sent to subjectRegistration table and the studentid is sent to Students table. Then, the system gets an advisorid from the Students table and sends it to the teacher table to get the personalid to get the firstName and LastName of advisor teacher in the personalInfo table. Then when the system gathers all the information, it displays the information on the screen.

รหัสโปรแกรม : Registration-432003

ลงทะเบียนเรียนปกติ

Step 1

เลือกวิชาและเลือก Section

Step 2

ยืนยันการลงทะเบียน

Step 3

พบอาจารย์ที่ปรึกษา

Step 4

รับทราบผลการลงทะเบียน

Step 5

ชำระเงิน

รหัสนักศึกษา : 54270007
คณะ : คณะวิศวกรรมศาสตร์
สถานศึกษา : วิทยาเขต

ชื่อ-สกุล(ท.) : นายเกรียง ขยันเรียน
ภาควิชา : ภาควิชาวิศวกรรมโยธา
ประเภทนักศึกษา : ปริญญาตรี 4 ปี (หลักสูตรนานาชาติ)

ชื่อ-สกุล(อ.) : Mr.KANGKAD KAYANLEAN
สาขาวิชา : วิศวกรรมโยธา
ห้อง : A ชั้นปี : 2

โครงการหลักสูตร : วิศวกรรมศาสตรบัณฑิตสาขาวิชาวิศวกรรมโยธา หลักสูตรนานาชาติ
อาจารย์ที่ปรึกษาชั้นปี : ดร.ชัยณรงค์ อธิสกุล

อาจารย์ที่ปรึกษาวิทยา
พิเศษ :

เกรดเฉลี่ยสะสม 1.52
(GPAX) :

ภาค/ปีการศึกษา : 1/2555

วันลงทะเบียน : 07/06/2555

สถานะอื่นๆ :

กรุณาไปพบอาจารย์ที่ปรึกษา ดร.ชัยณรงค์ อธิสกุล
เพื่อให้อาจารย์อนุมัติผลการลงทะเบียน
แล้วจึงกลับมาทำการชำระเงินได้

Analysis Report

Analysis 1: Table showing students information

Student ID	Status	Personal ID	Degree Program	Date Of Birth
3101	Normal	S3101	normal	01/02/2000
3102	Normal	S3102	inter	22/02/2000
3103	Normal	S3103	inter	11/01/2001

*Continuation of student information table

National ID	Faculty	Department	Academic Year	Room
9999988874985	Engineering	Chemical	2	B
8875488005697	Engineering	Chemical	2	A
5988045617702	Engineering	Chemical	2	B

*Continuation of student information table

Advisor ID	GPAX
T123456	NULL
T123456	NULL
T123456	NULL

Analysis 2 : Table showing personal information each individual

Personal ID	First Name	Last Name	Email	Gender
S3101	Jirasak	Chao	ismail@gmail.com	Male
S3102	Sarawut	Kunchai	ewaters@gmail.com	Male
S3103	Sukanda	Souvanatong	donev@gmail.com	Female

Student Registration Database Management System

Analysis 3: Table showing subject registered by student. This data shows the student registered subjects.

Student ID	Subject ID	Semester ID	Section ID
3101	CPE213	2022/1	CPE213/1i
3999	CPE213	2022/1	CPE213/1i
3999	CPE231	2022/1	CPE231/1i

Analysis 4: The table lists information about the subjects that students can register for.

Subject ID	Subject name	SectionID	SemesterID	Credits
CPE213	Data model	CPE213/1i	2022/1	3
CPE213	Data model	CPE213/1n	2022/1	3
CPE231	Database	CPE213/1i	2022/1	3

*Continuation of student information table

Year requirement	Degree program	Room	Seat
1	Bachelor	A	37
1	Bachelor	A	40
1	Bachelor	B	40

Analysis 5: Table showing Teacher information.

Teacher ID	Teacher Department	Teacher Faculty	Personal ID	Advisor ID
1001	Computer	Engineering	T1001	AD1001
1002	Computer	Engineering	T1002	AD1002
1011	Chemical	Engineering	T1011	AD1011

Analysis 6: Table showing Teacher Assigned information.

Student Registration Database Management System

Teacher ID	Subject ID	Semester
9999	CPE213/1i	2022/1
9999	CPE213/1n	2022/1
9999	CPE231/1i	2022/1

Analysis 7: Table showing TA information.

TA ID	TA Department	TA Faculty	Personal ID
TA3101	Chemical	Engineering	S3101

Analysis 8: Table showing TA Assigned information.

TA ID	Subject ID	Semester
TA1048	CPE213/1i	2022/1
TA1048	CPE213/1n	2022/1
TA3999	CPE213/1i	2022/1

Analysis 9: The table shows the role for each personal id.

Personal ID	Role
S3101	Student
S3102	Student
S3103	Student

Analysis 10: The table shows the user information.

Username	Password	Email	personalID	super
1048	*****	jjew@gmail.com	1111	0