蘇鴻章

資科系碩一 G10716008

學生註冊系統（SRS）課程學習

STUDENT REGISTRATION SYSTEM (SRS) CASE STUDY

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要求規範

我們被要求開發自動學生註冊系統（SRS）。 該系統將使學生每學期在線註冊課程，並跟踪學生完成學位的進度。

　　當學生第一次進入大學時，學生使用 SRS 制定學習計劃，以確定他或她計劃參加哪些課程以滿足特定學位課程，並選擇一名教師輔導員。 SRS 將驗證擬議的學習計劃是否滿足學生所尋求的學位要求。 一旦建立了學習計劃，那麼，在每個學期之前的註冊期間，學生可以在線查看課程安排，並選擇他或她希望參加的課程，指出首選課程（一周中的某一天） 如果課程是由一位以上的教授提供的話。 SRS 將通過參考學生完成的課程在線成績單和收到的成績來驗證學生是否滿足每個所要求課程的必要先決條件（學生可以隨時在線查看他或她的成績單）。

　　假設（a）所要求的課程的先決條件得到滿足，（b）課程符合學生的學習計劃要求之一，（c）每個課程都有空間（es） ），學生就讀於課程中。

　　如果滿足（a）和（b），但（c）不滿足，則學生將被安排在先到先得的等候名單上。 如果學生之前等候的課程/部分可用（因為其他學生已經放棄了課程或因為課程的座位容量增加了），學生將自動註冊候補班級和電子郵件 將該消息發送給學生。 如果不再需要，學生有責任放棄課程; 否則，他或她將被收取課程費用。

　　學生可以下課，直到學期開始上學期的第一周結束。

REQUIREMENT SPECIFICATION

We have been asked to develop an automated Student Registration System (SRS). This system will enable students to register online for courses each semester, as well as track a student's progress toward comple-tion of his or her degree.

When a student first enrolls at the university, the student uses the SRS to set forth a plan of study as to which courses he or she plans on taking to satisfy a particular degree program, and chooses a faculty advi-sor. The SRS will verify whether or not the proposed plan of study satisfies the requirements of the degree that the student is seeking. Once a plan of study has been established, then, during the registration period preceding each semester, the student is able to view the schedule of classes online, and choose whichever classes he or she wishes to attend, indicating the preferred section (day of week and time of day) if the class is offered by more than one professor. The SRS will verify whether or not the student has satisfied the neces-sary prerequisites for each requested course by referring to the student's online transcript of courses com-pleted and grades received (the student may review his or her transcript online at any time).

Assuming that (a) the prerequisites for the requested course(s) are satisfied, (b) the course(s) meets one of the student's plan of study requirements, and (c) there is room available in each of the class(es), the stu-dent is enrolled in the class(es).

If (a) and (b) are satisfied, but (c) is not, the student is placed on a first-come, first-served waiting list. If a class/section that the student was previously waitlisted for becomes available (either because some other student has dropped the class or because the seating capacity for the class has been increased), the student is automatically enrolled in the waitlisted class, and an email message to that effect is sent to the student. It is the student's responsibility to drop the class if it is no longer desired; otherwise, he or she will be billed for the course.

Student may drop a class up to the end of first week of the semester in which the class is being taught.

功能性需求

1. 學生註冊系統會提供學生查看系所開課內容
2. 學生註冊系統會提供學生加選課程
3. 學生註冊系統會提供學生退選課程
4. 學生註冊系統會提供學生查看已選課程
5. 學生註冊系統會提供學生查看歷年修課紀錄(含成績)

非功能性需求

1. 學生選課時，需符合該課加選條件，否則無法加選。
2. 學生選課時，該課程需符合學生學位學程課程之一，否則無法加選。
3. 學生選課時，若此課程人數已滿，則學生將被安排在先到先得的等候名單上，等待其他該課程之已入選之學生棄權。
4. 若超過選課時間，則無法進行加退選動作。