

RCS ID: jianr, liaoy3, wangy56

Project Requirements

ID	Requirement	Priority	Stakeholder	Feasibility
1	Search for a course by title, CRN, or keyword.	high	students; advisors	Phase 1
2	Set up maximum seats for each course	high	instructors; registrar staff	Phase 2
3	Register for a course	high	student, registrar staff	Phase 1
4	Drop a course	high	student	phase1
5	Organize courses by majors	medium	registrar staff	phase2
6	Timeout if no operation for a window of time	low	student	phase3
7	Add to a course waitlist	medium	student	Phase 2
8	Close the registry window by the registration deadline	high	instructor; registrar staff	Phase 2
9	Select specific term	high	student	Phase 1
10	Change sections within the same course	low	student	Phase 2
11	Show successfully registered courses	high	student;	Phase 1

			advisor	
12	View weekly schedule	medium	student	Phase 3
13	Upload available courses for a term for students to register for	high	registrar staff	Phase 2
14	Check the Transcript	low	student; advisor	Phase 3
15	Register for a list of courses	medium	student	Phase 2
16	Update course information such as lecture time and lecturer	medium	instructor; registrar staff	Phase 2
17	Calculate current GPA and number of credits completed so far	low	student; advisor	Phase 3
18	Check if the student has exceeded the maximum number of credit allowed	high	student; registrar staff	Phase 1
19	Show rating for available course	low	student; instructor	phase 3
20	Prevent students from adding courses if their holds are not satisfied.	high	registrar staff; instructor	Phase 1
21	Check if the course registered conflict with student's major	high	registrar staff; instructor	Phase 1
22	Approve students in the waitlist when there is free space	medium	registrar staff; instructor	Phase 3
23	Show the number in the waitlist, remaining seats, and capacity	high	student	Phase 2

24	Prevent students from adding courses according to their current semester.(e.g. Junior cannot add freshman courses)	high	registrar staff; instructor	Phase 1
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Project Risks

1. If there is a holiday in a week, the weekly schedule cannot display the correct weekly schedule. (technical risk)
2. The request for workable version deployment is urgent since registration takes place three times a year. (market factor risk)
3. The stakeholders of the product contain different populations of the school and their interests in the system might conflict. (market factor risk)
4. Staff cannot add students from the waitlist to course immediately if there is any free space. (human risk)
5. Staff added a course with incorrect information. (human risk)
6. Lack of concurrency between system and real-time schedule. (technical risk)
7. The reliability of the database is of concern because a large number of edits are made during the registration season. (technical risk)
8. The user interface does not appeal to the interest of the users. (technical risk)
9. An instructor wants to close the course if there are not enough students taking the course. (human risk)
10. Project competition with other open resource projects like YACS. (market factor risk)
11. Requests performed at the same time by different students might be in the way of each other to get handled by the system. (technical risk)
12. Recalculate the GPA and adjust pre-request on degree work if students took retake courses. (technical risk)