

Kwangwoon University  
College of AI Convergence  
Department of Software

# APPLICATION SOFTWARE LABS

Course Registration Program for University

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## Team Project Proposal

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**Prof.** Jae-Han Lim

<b>2022203510</b>	Universe Shrestha	- <b>Team Leader</b>
<b>2022203502</b>	Vadim Choi	- <b>Team Member</b>
<b>2022203033</b>	Hoon-Hui Lee	- <b>Team Member</b>
<b>2022203055</b>	Donghyeok Tak	- <b>Team Member</b>



**Project Duration:** 2024 March - 2024 June

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Kwangwoon University's existing course registration software suffers from several critical deficiencies. The main issue is that the software is inconvenient and has outdated UI/UX.

영문대학교 수강신청 연습 프로그램

수강신청교과목

순번	학정번호	구분	과목명	학점	담당교수	요일1	시간1	강의실1	요일2

과목검색

학과  전체검색  이수 ☐ 전체검색 ☐ 검색

과목  여석 ☐

순번	학정번호	구분	과목명	학점	담당교수	강의시간
수강신청 연습 시작하기 (10초 후 서버 오픈과 함께 시작)						

신청자정보

학번  성명  년도학기

신청정보

타교신청  본교신청  출신청

과목선택

학정번호  과목명

교양군  이수구분  학점 ☐ 담당교수

강의시간  공학인종

분반

재수강 성적하락 삭제대상 과목정보(재수강 여부는 KLAS 에서 반드시 확인하시기 바랍니다.)

재수강대상	년도학기	이수구분	학점	등급	과목명

종류	시작시간	10:00:00	시작시간과 서버시간이 같아지면 자동으로	수강삭제	수강신청
	서버시간	09:59:50	수강신청 가능상태로 전환됩니다.		

• 즐겨찾기 수강신청 : 신청하고자 하는 과목의 조회 버튼(목록) => 수강신청 버튼(목록)

• 프로그램 사용방법 : <https://github.com/yivoon-dev/kw-enrolment-practice>

※ 시스템 과목별 반차수를 위하여 동일 과목조회 버튼 5회 이상 클릭 시 인증번호를 입력해야 합니다.

- The design of the software is antiquated. This results in unintuitive user interfaces and poor user experiences(i.e., When a freshman opens it, they cannot figure out how to register for the lectures).
- Secondly, users cannot find easily where to look for major courses.
- It does not provide enough information about ratings, comments, and syllabus of the courses.
- It's impossible to find prerequisite courses (cannot see the current status of major subjects) or follow the curriculum (i.e., required courses or elective courses)
- It is uncomfortable to press the "registration" button since the distance between the registration button and the "query" button is far.
- The number of favorite items is too small to add all desired courses.
- The order of search results is not suitable for choosing the "correct" lectures should take. This results in the choice of an incorrect lecture, for example, another department's one.

### 3. Data Collection

To implement the course registration software, student and lecture information. There are some methods to get them:

- Everytime's ratings and comments for all lectures for Kwangwoon University are borrowed from [KLAS Helper GitHub repository](#)
- We may request Kwangwoon University to get the in-the-wild database of the entire course; For now, we use the sample database for preview.
- We may need to gather the user's status for additional features.

### 4. Solution

- User-friendly and intuitive user interface



Figure 2: UI prototype for the registration software; Not a target design.

- Let the user effortlessly figure out what courses should take.

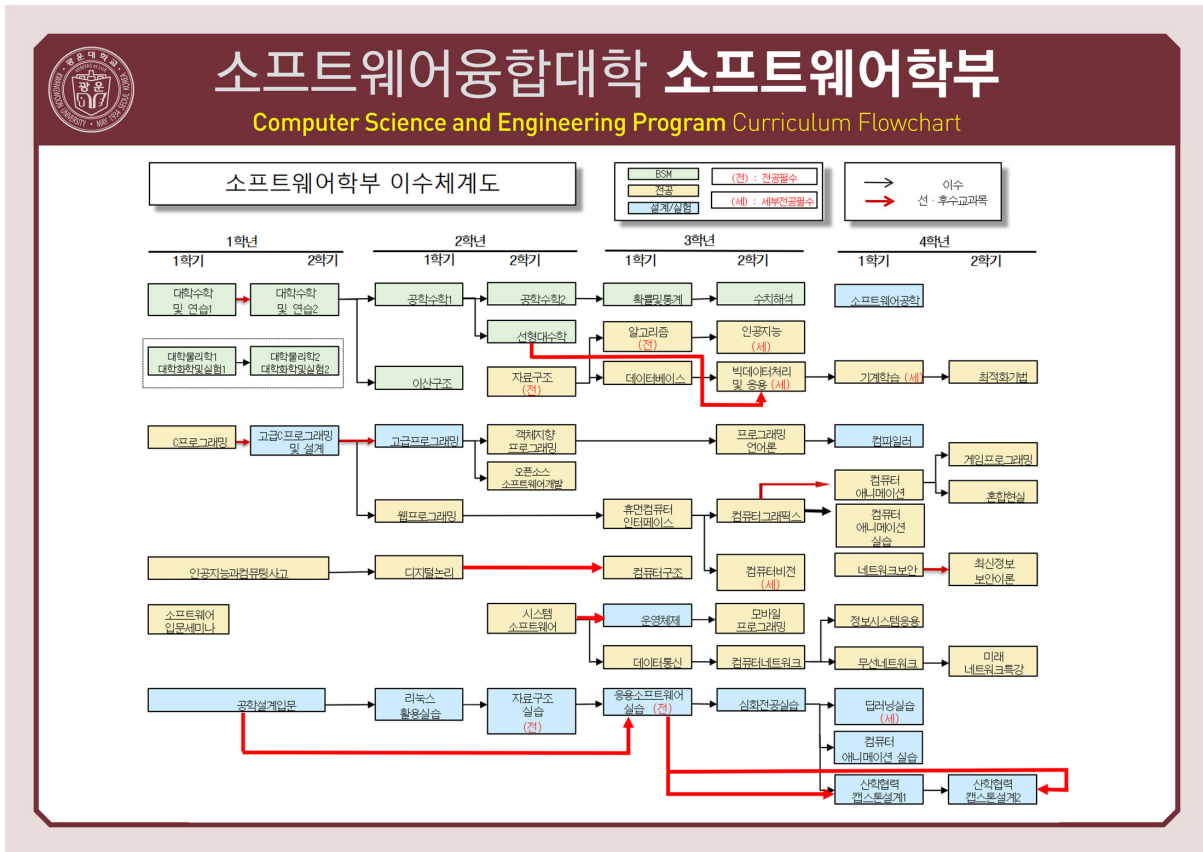


Figure 3: Flowchart for the Major Courses

- For example, it shows Prof. name, time, location, Everytime rating and comment, syllabus, etc. on click. On right-click, add the lecture to favorites. In Fig. 3, the green color indicates courses already taken, and the red colored courses not taken yet (to be implemented). By doing this, users can find efficiently prerequisite courses and the overall curriculum.
- Avoid the need to click the "query" button before pressing the "course registration" button. And place them together.
- Remove the limit on the number of favorite items.
- Show the lectures for a specific department at the top of the search result.

## 5. Role of Each Team Member

- **Universe Shrestha:** Frontend development
- **Vadim Choi:** UI/UX design
- **Hoon-Hui Lee:** Application programming
- **Donghyeok Tak:** Backend programming

## 6. Estimated Resources Needed

- Database server