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| **프로젝트 최종보고서**   |  |  | | --- | --- | | **교과목명** | **소프트웨어 프로젝트** | | **프로젝트 수행기간** | **2022.03.04 ~ 2022.06.02** | | **교과목 담당교수** | **김영종** | |  |  | | **프로젝트 명** | **졸업까지 달려보슝** | | **팀명** | **종민의 시간은 금이다** | | **팀원** | **금종민, 박준형, 이하연, 최예린** | | **프로젝트 지도교수** | **김영종** | | **산업체 멘토 / 소속** | **N/A** | | **제출일** | **2022.06.04** | |

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**1. 프로젝트의 개요**

**1-1. 프로젝트 개발 배경**

해당 프로젝트의 시작은 학교 생활 중 졸업 요건 확인에 대한 불편함을 느낀 것이다. 대부분의 대학들은 입학년도에 따라 졸업요건이 미세하게 차이가 난다. 작은 차이기는 하지만, 다른 학년과 완전히 동일한 것은 아니기 때문에 본인이 입학한 년도의 졸업요건을 정확하게 확인하고 기억해두어야 한다. 그러나 학교 생활을 하다보면 시험 뿐만 아니라 대외 활동, 어학, 개인 포트폴리오 등을 준비하면서 바쁘게 일상을 보내게 된다. 그렇기에 매번 학사 공지사항을 확인하고 졸업요건을 기억하고 있기 어려운 것이 보통이다.

학교에서 졸업사정을 수정할 때도 있는데, 이는 학교 SNS와 학사공지에서 확인이 가능하다. 그러나 바쁘면 이마저도 나중에 몰아서 확인하거나 잊어버릴 때도 생긴다. 이 경우 입학할 때와는 달라진 졸업 사정에 당황하는 사례도 생기고는 한다. 게다가 변동사항을 공지사항에서 글을 찾지 못하거나, 질문사항이 생겨 숭실대학교 커뮤니티를 돌아다니면서 질문을 남기는 학우들도 있다. 학과사무실에 전화하는 것이 제일 정확한 것은 사실이지만 이에 부담감을 느끼는 학우들이 꽤 있어서 커뮤니티 의존률이 생각보다 높은 편으로 파악된다.

우리 팀은 이런 문제점으로부터 해당 프로젝트를 착안하였다. 회의 당시 ‘학우들에게 도움이 되는지?’, ‘우리의 일상 속 불편함을 해결할 수 있는지?’, ‘우리가 완료 가능한 프로젝트인지?’ 라는 세 가지 물음을 던졌다. 그리고 이 세 가지를 충족시키는 것이 숭실대학교 졸업사정과 본인의 달성도를 한 눈에 확인할 수 있는 애플리케이션을 개발하는 것이었다.

숭실대학교의 경우 졸업과 관련된 애플리케이션이나 웹사이트가 개발되어있지 않아서 우리가 만든다면 학우들에게 많은 도움이 될 것이라 기대하였다. 무엇보다 이번 프로젝트가 첫 번째 소프트웨어 프로젝트 경험인 우리 팀원들이 도전하기에 부담이 없는 과제라고 생각하였다.

**1-2. 프로젝트 최종 목표**

**최종 목표** :　소프트웨어학부 20학번의 졸업사정과 자신의 달성률을 파악할 수 있는 애플리케이션을 개발한다.

**세부 목표**

- 안드로이드 스튜디오와 플러터 개발을 익혀 UI와 기능을 구현한다.

- Django 서버 사용법과 웹페이지 크롤링 기술을 접목하여 기능을 구현한다.

- 애플리케이션과 서버를 연결하고 HTTP 통신 기술을 적용하여 유저와 상호작용이 가능한 애플리케이션을 개발한다.

**1-3. 중심어**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **한글** | 프론트엔드 | 백엔드 | 플러터 | 장고 | - |
| **영문** | Front-end | Back-end | Flutter | Django | HTTP |

<표 1: 중심어>

**2. 관련 기술 현황**

**2-1. 국내 외 경쟁기관 현황**

해당 프로젝트는 아직 동일한 프로젝트가 개발된 사례가 발견되지 않기 때문에 경쟁기관이 존재하지 않는다.

**2-2. 본 프로젝트와 기존 제품과의 차별성**

본 프로젝트는 숭실대학교 학우들이 사용할 수 있는 최초 졸업사정표 확인 애플리케이션이다. 이 애플리케이션은 졸업 사정 확인과 자신의 달성 정도를 확인하기 위해 유세인트에 매번 접속해야 하는 학우들의 불편함을 해소시켜줄 수 있다. 그리고 졸업과 관련된 공지사항을 한 곳에 모아 정리하였기에 커뮤니티와 공식 홈페이지에서의 검색 과정을 줄여줄 수 있다. 이 두 가지의 장점이 본 프로젝트의 차별성이자 개발 의의라고 볼 수 있다.

**3. 프로젝트 설계 내용**

**3-1. 주요 기능**

1. 애플리케이션 내부 기능

1) CheckMyGrade(): 현재까지 달성한 자신의 졸업 필수 조건을 확인한다.

2) CheckGraduation(): 자신의 졸업사정을 확인한다.

3) PreAndEndSubject(): 선후수과목 이수 현황과 체계도를 확인한다.

4) ToDoList(): 자신이 목표한 졸업 조건들을 할 일 목록 형식으로 관리할 수 있다.

5) Notify(): 학교에서 제공하는 공식적인 졸업 정보를 확인한다.

6) QuestAndAns(): 질문사항을 개발자에게 전송하고 응답을 받는다.

7) MyPage(): 개인정보와 관련된 기능을 수행한다.

8) NickName(): 사용자의 별명을 설정하고 저장한다.

2. 애플리케이션 개발 기능

1) DisplayData(): 사용자에게 데이터를 송출한다.

2)

3. Back-End 기능

1) CrawlingUsaint(): 유세인트 페이지에서 필요한 정보를 크롤링한다.

2) Save(): 크롤링한 데이터를 DB에 저장한다.

3) Build(): 프로젝트 서버를 배포하기 위해 빌드한다.

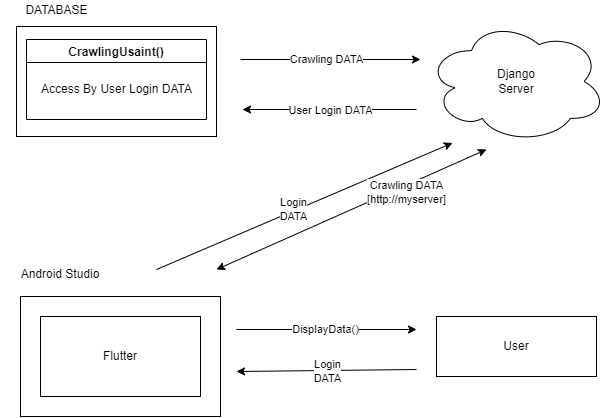
4) Deploy(): 프로젝트 서버를 헤로쿠(Heroku)에 배포한다.

5) GetJSON(): 저장한 정보를 JSON파일로 불러온다.

6) HTTPSend(): 사용자가 입력한 정보를 HTTP로 전송한다.

**3-2. 시스템 구조도**

<그림 5>



<그림 5> 는 본 프로젝트의 구조도를 나타낸다.

**구조도의 주요 모듈의 세부 설명**

1) User: 이 애플리케이션을 사용하는 사람이다.

2) Flutter: 애플리케이션의 UI와 사용자와 Transaction하는 기능을 수행한다.

3) Android Studio: Flutter를 구동하게 하는 애플리케이션 플랫폼이다.

4) Django Server: 애플리케이션과 DATABASE가 정보를 주고받도록 하는 서버이다.

5) DATABASE: 크롤링 데이터와 로그인 정보를 저장한다.

6) CrawlingUsaint(): 유세인트를 크롤링하는 함수이다.

**3-3. 모듈별 기능 명세서**

|  |  |
| --- | --- |
| **모듈명** | **기능** |
| User | - 유세인트에 로그인이 가능한 로그인 데이터를 입력한다.  - 애플리케이션이 제공하는 기능을 사용한다. |
| Flutter | - 애플리케이션의 디자인 정보를 바탕으로 Display가능한 UI로 구현한다.  - 사용자에게 기능과 관련된 정보를 보여준다.  - 사용자와 상호작용하는 기능(버튼 클릭, 스크롤링, 저장 등)을 수행한다.  - 사용자가 입력한 로그인 데이터를 HTTP Send기능을 이용하여 서버로 전송한다. |
| Android Studio | - Flutter를 구동하게 하는 애플리케이션 플랫폼이다. |
| Django Server | - 애플리케이션으로부터 사용자 로그인 데이터를 받아 DATABASE에 전송한다.  - DATABASE로부터 받은 크롤링 데이터를 JSON 파일로 바꾼다.  - 애플리케이션에 크롤링 데이터를 전송한다. (애플리케이션이 서버에 접속하여 크롤링한 데이터에 접근할 수 있도록 한다.) |
| DATABASE | - 서버로부터 받은 로그인 데이터를 데이터베이스에 저장한 뒤, 이를 CrawlingUsaint()로 전송한다.  - CrawlingUsaint()가 수행하여 얻은 결과값(크롤링데이터)을 저장한 뒤 Django Server로 전송한다. |
| CrawlingUsaint() | - DATABASE로부터 받은 로그인 데이터를 이용하여 크롤링 코드를 수행한다.  - 얻은 결과값(크롤링 데이터)을 데이터베이스에 전달한다(저장한다). |

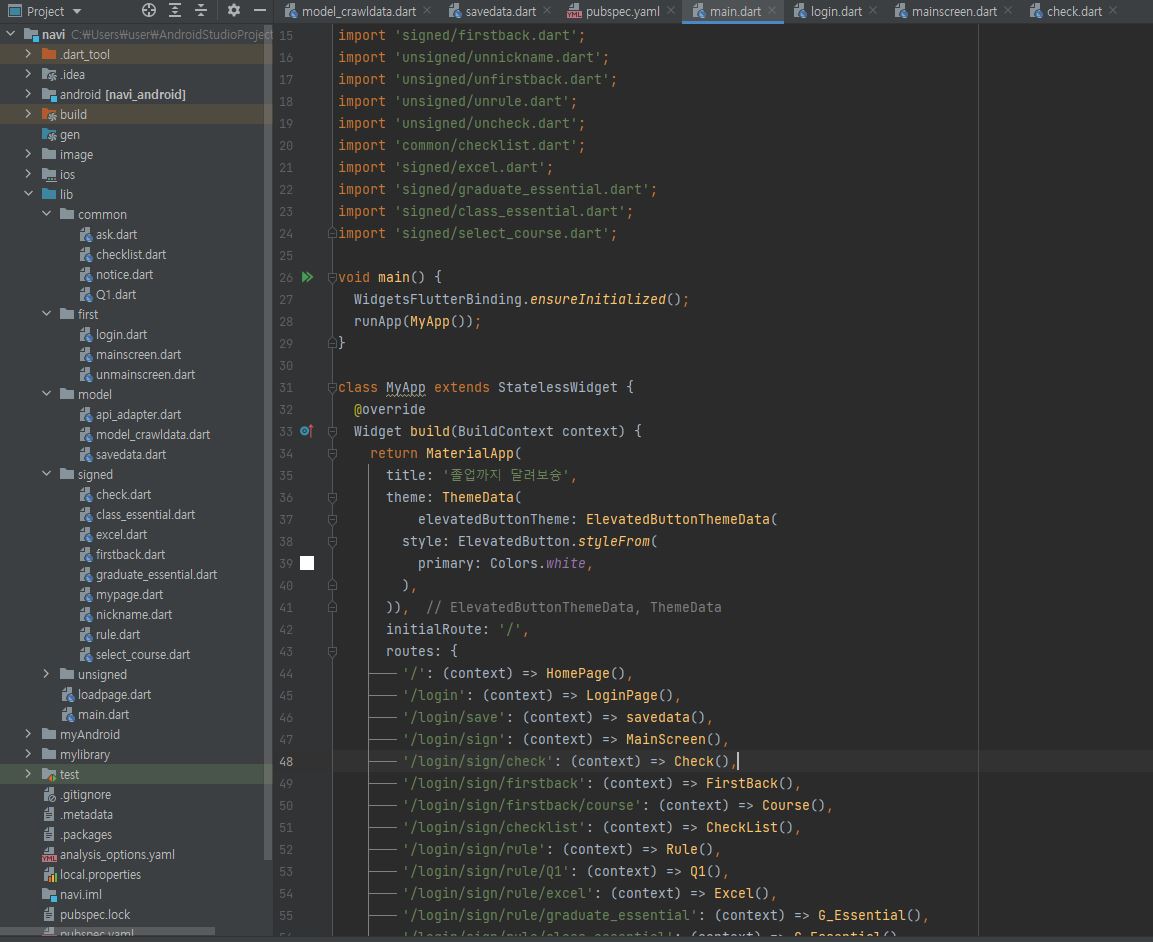
<표 2: 모듈별 기능 명세서>

**4. 프로젝트 수행 결과**

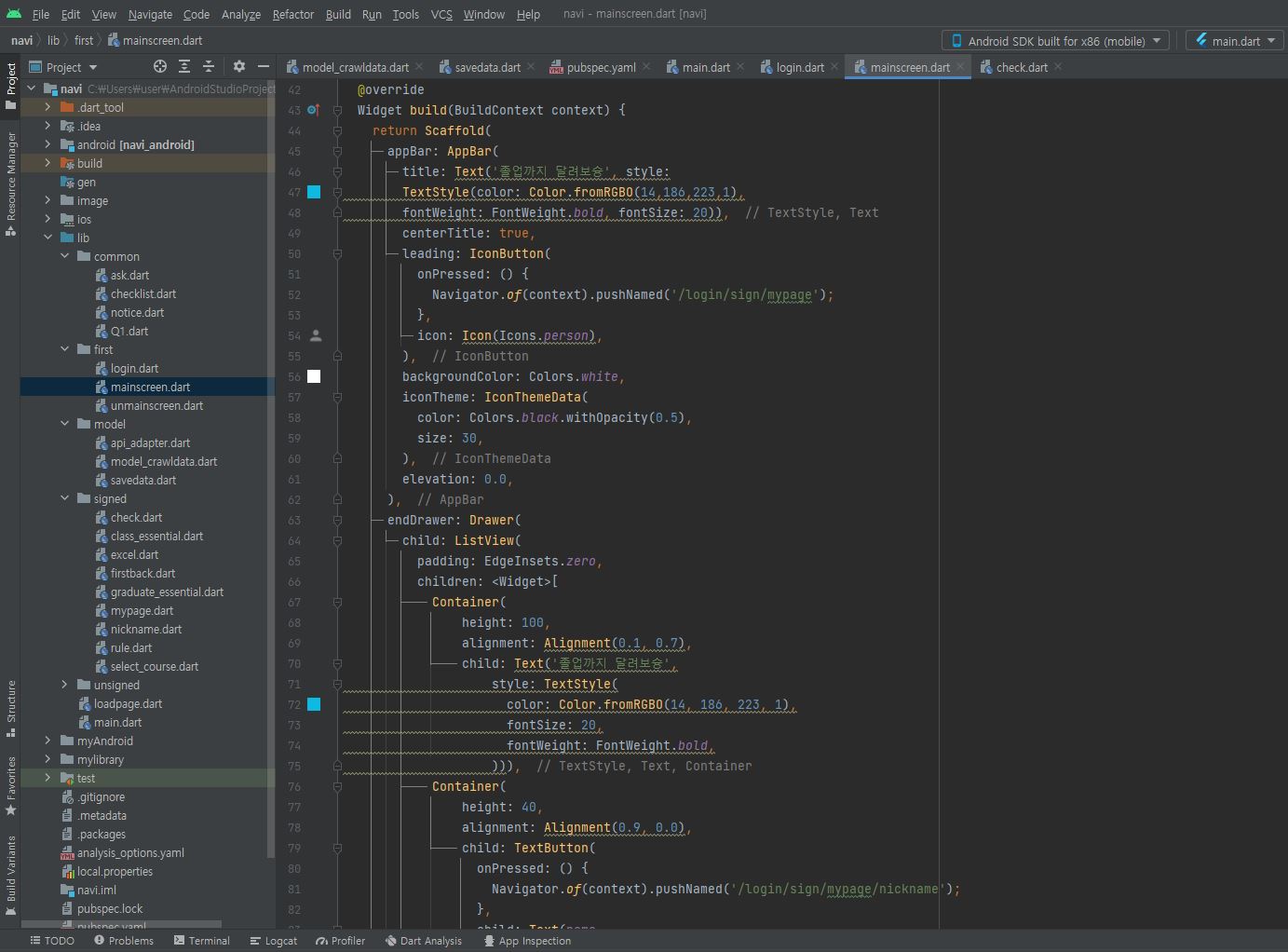
프로젝트 수행 결과는 1-2. 프로젝트 최종목표에 기술된 세부 목표에 기반하여 작성되었다.

**4.1 결과 1**

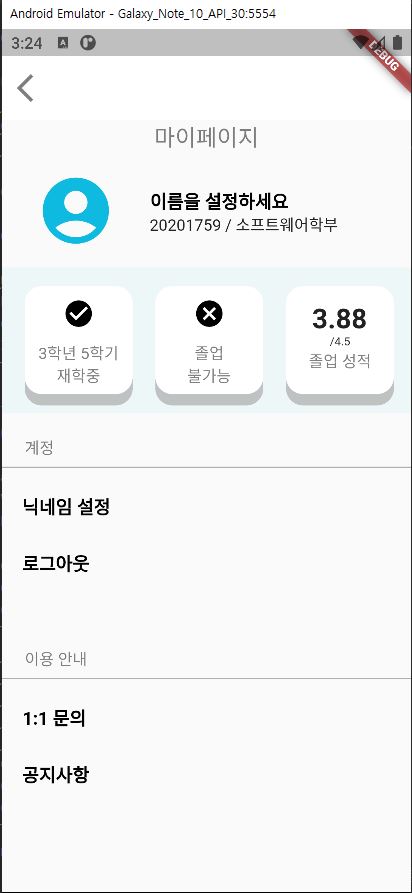
안드로이드 스튜디오와 플러터 개발을 익혀 UI와 기능을 구현하였다. 애플리케이션의 모든 기능과 UI는 플러터 개발팀에서 직접 개발과 디버깅을 진행하며 완성하였다. 애플리케이션에서 Display되는 화면들은 각각 하나 또는 하나 이상의 dart파일들의 상호작용으로 구성된다. 버튼 클릭과 원형 그래프 애니메이션 등 사용자와 상호작용하거나 디스플레이 하는 것들 모두 문제 없이 구동된다. 에뮬레이터 실행 시 프로젝트의 구상대로 애플리케이션이 실행되는 것이 확인되고 치명적인 버그와 오류는 없는 것으로 나타난다.



<참고 그림 1: 코드 일부분>

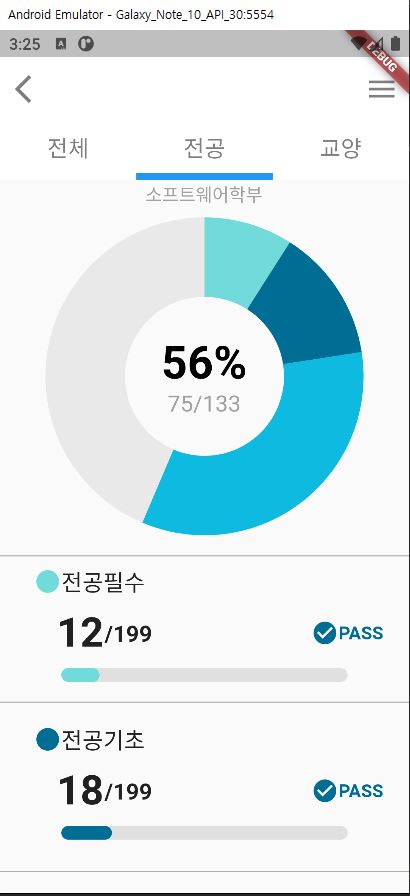
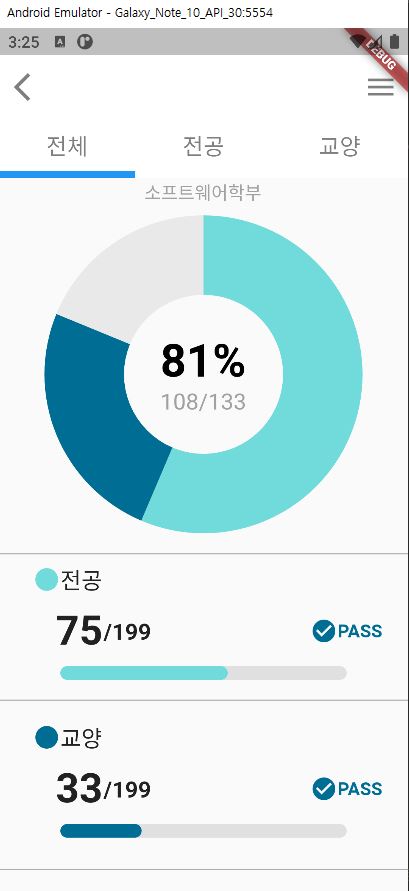


<참고 그림 2: 코드 일부분>



<참고 그림 3: 애플리케이션 메인메뉴 화면>

<참고 그림 4: 애플리케이션 마이페이지 화면>

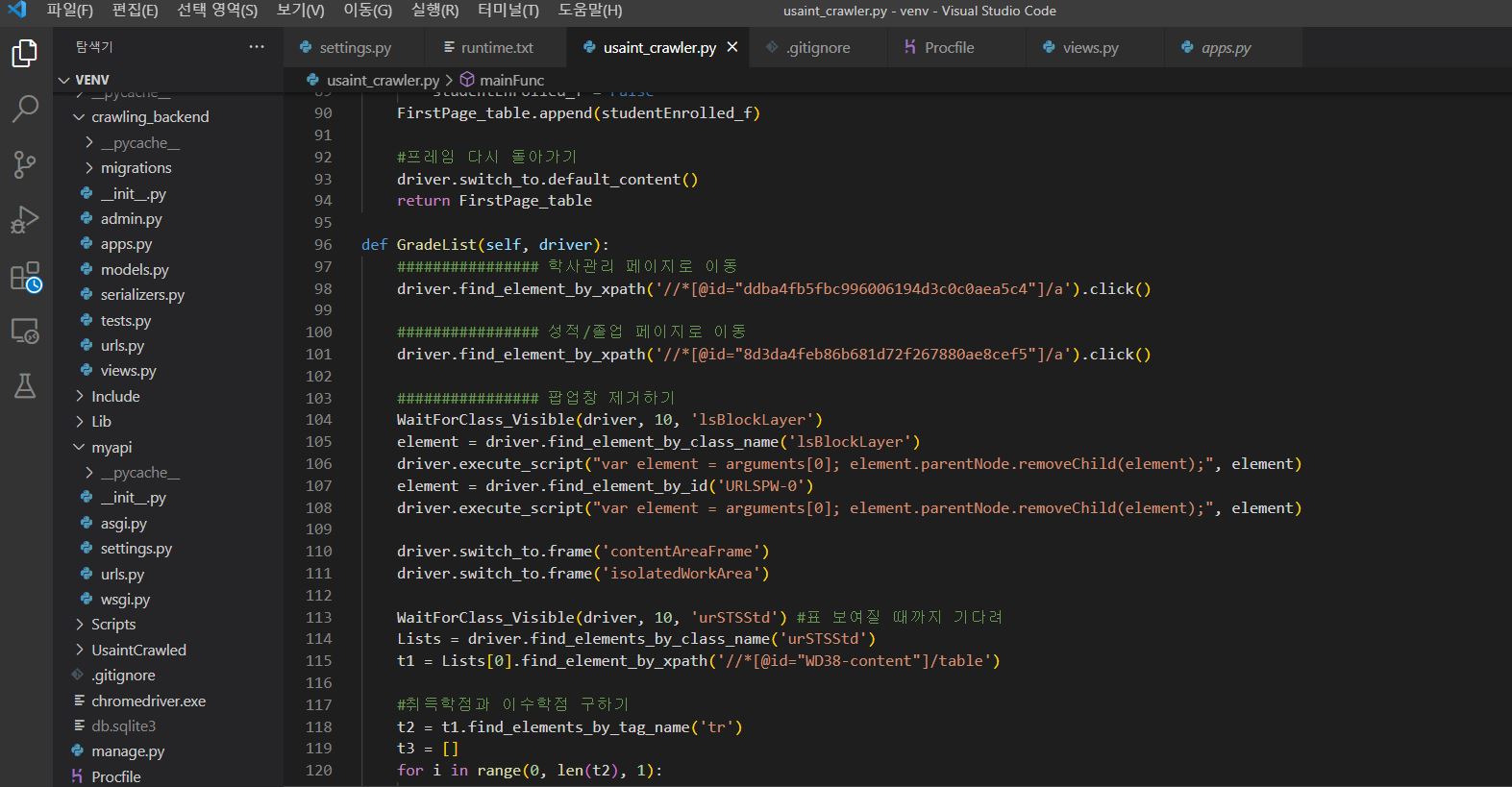


<참고 그림 5: 애플리케이션 학점 확인 화면>

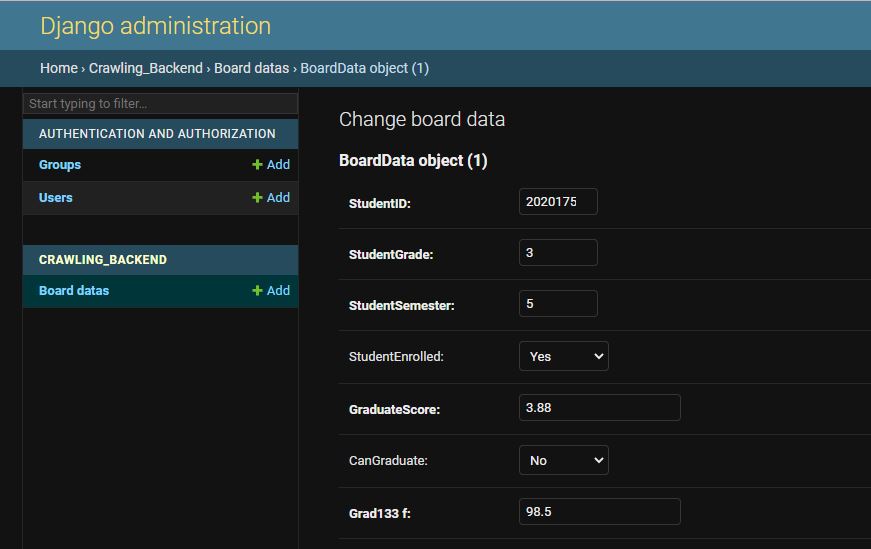
<참고 그림 6: 애플리케이션 전공학점 확인화면>

**4.2 결과 2**

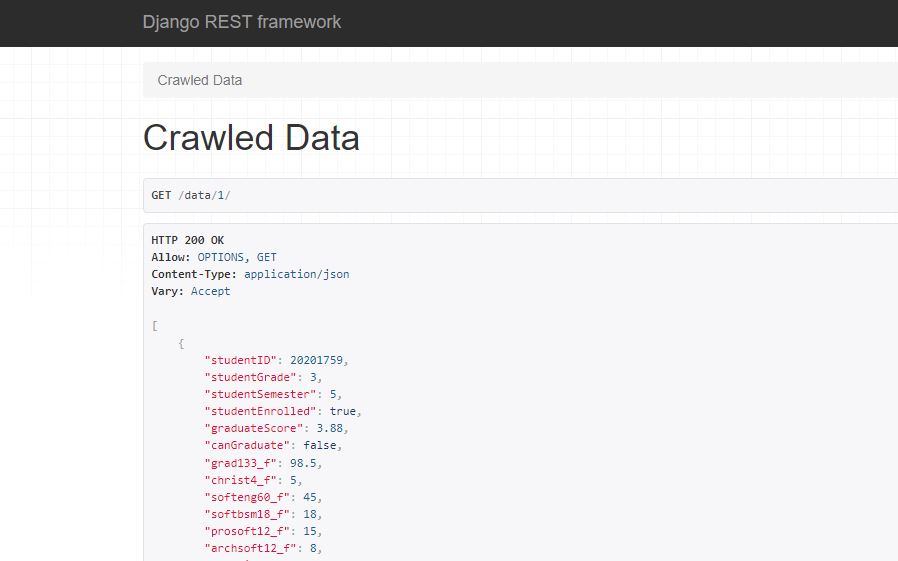
Django 서버 사용법과 웹페이지 크롤링 기술을 접목하여 기능을 구현하였다. 유세인트의 웹사이트 코드를 분석하고 각 HTML 구조체의 ID를 얻어와 크롤링을 수행하였다. 그리고 Django 서버에 이를 전송하고 DATABASE에 저장하여 원할 때마다 데이터를 꺼내서 확인이 가능하도록 구현하였다. 이 과정에서 로컬 서버에 불편함을 느껴 Heroku라는 호스팅 서비스와 DRF(장고 레스트 프레임워크)를 사용하였다. 크롤링 코드와 DATABASE, 서버는 모두 Python 문법과 파일로 이루어져 있으며 20학번 소프트웨어 학부의 데이터를 얻어오는데에 발생하는 문제는 없는 것으로 파악된다. 그러나 다른 학번이나 학과의 경우 유세인트 내 HTML 구조체의 아이디가 다르게 나타나는 부분이 있는 것으로 확인되었다. 이 경우, 원하는 데이터를 얻어올 수 없다. 이 부분은 차차 수정해나갈 예정이다.



<참고 그림 1: 크롤링 코드 일부분>



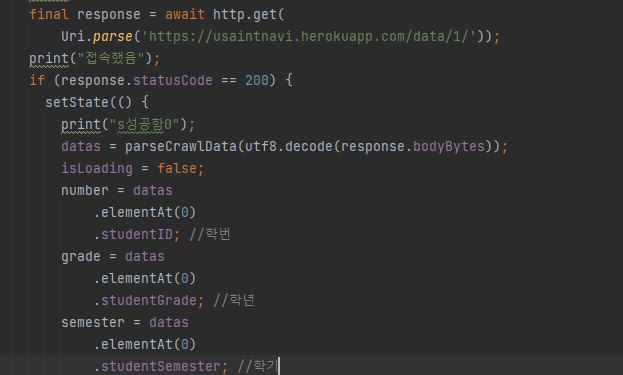
<참고 그림 2: 장고 서버 admin 페이지의 데이터 수정 부분>



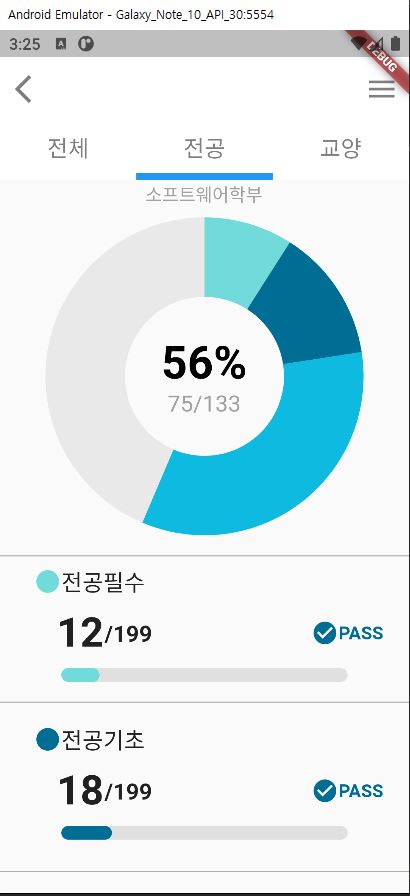
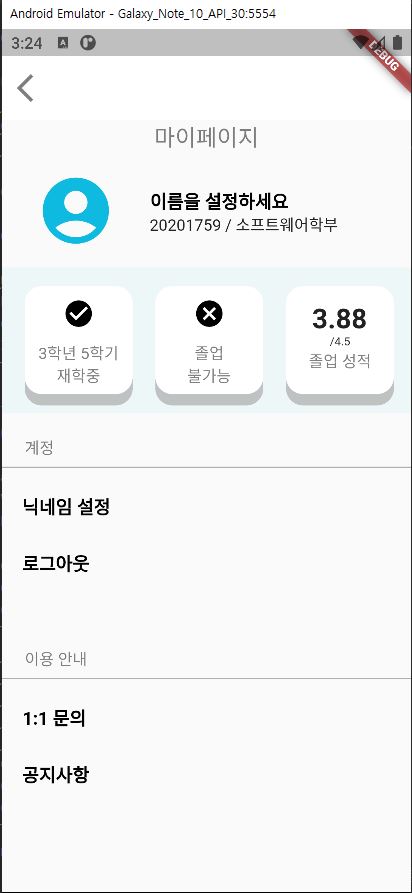
<참고 그림 3> DRF를 사용하여 JSON파일로 송출한 데이터 확인 페이지

**4.2 결과 3**

애플리케이션과 서버를 연결하고 HTTP 통신 기술을 적용하여 유저와 상호작용이 가능한 애플리케이션을 개발하였다. 그러나 이 과제의 수행률은 50%인데, 그 이유는 사용자 데이터를 받아서 서버에 전송하는 과정이 해결되지 않았기 때문이다. 그러나 애플리케이션에서 장고 서버에 접속하여 특정 사용자의 학사 정보를 불러오는 것은 성공하였다. 사용자의 데이터를 받을 때마다 크롤링을 수행하고 DB를 업데이트 하는 기능은 다음 애플리케이션 업데이트에 적용될 예정이다.



<참고 그림 1: 헤로쿠에 배포한 서버에 접속하여 데이터를 얻어오는 코드 (상단)>



<참고 그림 2: 이하연의 정보를 불러온 화면>

<참고 그림 3: 이하연의 전공학점 확인화면>

**5. 기대 효과 및 활용 방안**

1. 기술적 측면

1) 플러터와 안드로이드 스튜디오 개발 기술을 숙지하여 추후 해당 프로젝트를 업데이트 한다. 그리고 이번 프로젝트를 시작으로 Front-end 개발자들의 소프트웨어 개발 이해도가 높아졌기 때문에, 다른 프로젝트에서 그 역량을 발휘할 수 있으리라 기대한다.

2) 장고와 HTTP-애플리케이션 간의 통신 기술을 숙지하여 추후 해당 프로젝트를 업데이트 한다. 마찬가지로 이번 프로젝트를 시작으로 Back-end 개발자들의 소프트웨어 개발 이해도가 높아졌으므로 더 넓은 역량을 발휘할 수 있을 것이라 예상한다.

3) 업데이트가 지속되면서 만약 숭실대학교 공식 애플리케이션으로 지정받을 수 있다면 해당 코드를 깃허브에 배포하여 더 많은 개발자들이 해당 애플리케이션을 개발할 수 있게끔 한다. 일부 코드를 오픈소스로 프로젝트를 전환함으로써 애플리케이션의 발전을 도모하고 우리 팀과 비슷한 관심을 가진 개발자들에게 도움이 될 수 있기 때문이다.

2. 사회 및 문화적 측면

1) 숭실대학교 학우들이 평상시에 느끼던 불편함이 해소되어 질 높은 학교 생활을 누릴 수 있게 한다.

2) 졸업 사정을 바탕으로 미래 계획 또는 진로 계획을 수립하는 학생들에게 도움이 될 수 있다.

3) 숭실대학교에 재학 중인 여러 개발자들에게 숭실대학교 학우들을 위한 애플리케이션 개발의 장점을 알리고, 그들이 더 많은 애플리케이션 또는 소프트웨어 프로그램을 개발할 수 있게 하는 긍정적인 에너지를 주입한다.

**6. 프로젝트 수행 체계**

**6-1. 프로젝트 역할 분담 및 수행 방법**

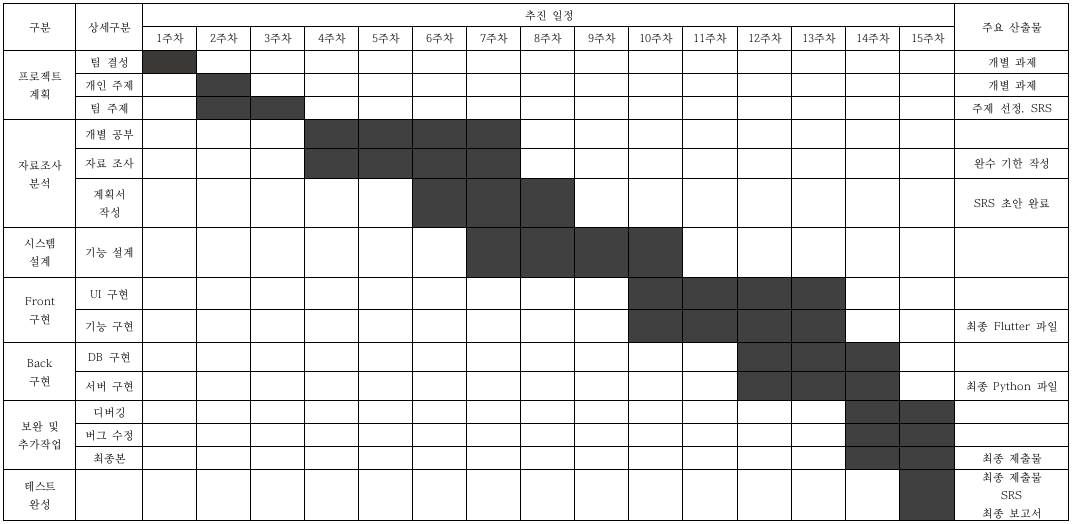
|  |  |  |  |
| --- | --- | --- | --- |
| **분야** | **담당업무** | **담당자** | **기여도** |
| UI | 애플리케이션 디자인  애플리케이션 흐름 구상 | 최예린 | 100% |
| Flutter | 애플리케이션 UI 구현  애플리케이션 기능 구현 | 박준형 | 100% |
| Flutter | 애플리케이션 UI 구현  애플리케이션 기능 구현 | 금종민 | 100% |
| DataBase & Server | DB와 서버 구현  서버 통신 구현 | 이하연 | 100% |

<표 3: 프로젝트 역할 분담 표>

o 김영종 교수님께 질의응답을 진행하여 프로젝트가 진전이 없을 때 도움을 받아가며 진행함.

o 팀원들과는 최소한 일주일에 2번 활동을 같이하여 프로젝트 개발을 함.

**6-2. 프로젝트 수행 일정**



<표 4: 프로젝트 수행 일정>

**6-3. 프로젝트 목표 달성도**

|  |  |  |  |
| --- | --- | --- | --- |
| 평가 항목 | 비중(%) | 달성도(%) | 평가방법 |
| UI 디자인 | 25% | 100% | 사용자에게 송출 가능한 화면인지,  기능으로 구현이 가능한 화면인지,  팀원끼리 피드백을 통해 평가한다. |
| 애플리케이션  내부 기능 구현 | 25% | 100% | 에뮬레이터를 실행하여 각 화면이 매끄럽게 전환되고 애니메이션 기능이 제대로 동작하는지 확인한다. |
| 크롤링 구현 | 25% | 90% | 유세인트 사이트에서 원하는 졸업사정  정보를 가져올 수 있는지 확인한다. |
| DB와 서버 구현 | 25% | 90% | 크롤링 데이터가 DB에 저장이 되었는지, 그리고 서버를 통해 애플리케이션에 제대로 전송되는지 확인한다. |

**6-4. 기술적 장애 요소 및 해결 내역**

o 장애요소 1: 크롤링을 진행하는데 유세인트 페이지의 표가 HTML 코드로 불러와지지 않는 문제가 발생하였음.

해결 내역 1: wait()를 이용하여 일정 시간이 지난 이후에 표를 불러오거나, 해당 표 클래스의 아이디가 화면에 보이는지를 체크하여 보였을 때 데이터를 갖고 오도록 코드를 작성함.

o 장애요소 2: 장고 서버 구현 중 크롤링 데이터가 원하는 형태로 보이지 않는 문제가 발생함.

해결 내역 2: 해당 데이터를 JSON 파일로 파싱하고 애플리케이션에서 파싱한 정보를 받아올 수 있도록 코드를 수정함.

o 장애요소 3: 포트포워딩을 통해 로컬 서버에 접속하도록 해야하는데, 이럴 경우 학교에서 시연할 때는 서버에 접속이 어렵다는 문제가 발생함.

해결 내역 3: 서버를 헤로쿠(Heroku)에 배포하고 DRF를 이용하여 어디서든지 해당 서버에 접근할 수 있도록 코드를 수정함.

o 장애요소 4:

**6-5. 참여 인력 현황**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **학번** | **이름** | **소속/학년** | **프로젝트 경험** | **수상 경력** |
| 20180710 | 금종민 | 융합..?  3학년 |  |  |
| 20180756 | 박준형 | 융합..?  3학년 |  |  |
| 20201759 | 이하연 | 소프트웨어학부  3학년 | 1) 자바 기반 게임제작  2) C#/유니티 기반 게임제작  3) 아두이노-유니티 기반 프로젝트 | 1)코딩테스트수상 2회 이상  2) 창의적공학설계  최우수 |
| 20201771 | 최예린 | 소프트웨어학부  3학년 |  | 0 |

**7. 결론 및 향후 연구**

**7-1. 결론**

**7-1-1. 프로젝트 목표**

해당 프로젝트의 목표는 숭실대학교 학우들의 졸업사정 확인과 관련한 번거로움을 줄이고자 기획되었다. 또한 애플리케이션 프로젝트 경험을 쌓아보고자 기획된 프로젝트이다. 이번 프로젝트의 목표는 팀 내 목표와 대외적 목표 두가지로 나뉜다. 우선 첫 번째인 팀 내 목표는 플러터와 안드로이드 스튜디오, 장고와 네트워크 통신 기술을 공부하고 실제로 적용해보는 것이었다. 그리고 대외적 목표는 숭실대학교로부터 공식 애플리케이션 허가를 받는 것이었다.

**7-1-2. 접근방법**

개발 분야를 디자인, 애플리케이션 개발, 백엔드 개발 총 3가지로 나뉘어 진행하였다. 각자가 맡은 분야를 공부하고 직접 개발을 진행하여 애플리케이션을 완성하였다. 디자인은 Figma 툴을 이용하여 모든 화면을 직접 구상하고 팀원들로부터 피드백을 받아가며 반복적으로 화면을 수정하기로 계획하였다. 최종 구상이 끝나면 플러터 팀에게 전달하여 개발을 이어나간다. 애플리케이션 개발팀은 디자인 팀으로부터 받은 화면을 실제로 구현하기 위해 안드로이드 스튜디오의 플러터를 사용한다. 디자인 팀이 구상한 화면과 최대한 가까운 애플리케이션 구현을 목표로 하였다. 백엔드 개발팀은 애플리케이션에 전송 가능한 학사 정보를 크롤링하고 이를 저장할 수 있는 DB를 제작한다. 그리고 해당 정보를 애플리케이션에 전송하는 통신을 돕는 서버를 개발하기로 하였다. 이 세 가지 분야끼리의 상호작용을 통하여 ‘졸업까지 달려보슝’ 애플리케이션 기능이 정상 동작되도록 기획하였다.

**7-1-3. 개발 내용과 평가결과**

디자인팀은 Figma 툴을 이용하여 모든 화면을 직접 구상하였고 팀원들로부터의 피드백을 적극적으로 수용하여 실시간으로 화면을 수정해 플러터 팀에게 전달해준 덕분에 개발에 차질이 없었다. 초기에 팀원 회의를 통해 전체적인 애플리케이션의 화면 흐름을 구상하고 이를 기반으로 세부적인 화면을 제작하였다. 그 과정에서 개발이 어려운 화면을 제거하거나 수정하여 1차 보완을 완료 하였다. 또한 초기 도안보다 월등하게 발전된 화면을 제작하여 세련된 애플리케이션 디자인을 완성하였다.

애플리케이션 개발팀은 디자인 팀으로부터 받은 화면들을 실제로 모두 구현하였다. 반복적인 디버깅과 코드 수정을 진행하여 매끄러운 화면 전환과 애니메이팅 기술을 접목시켰다. 마찬가지로 유저와 상호작용하는 모든 기능이 문제 없이 구동될 수 있도록 하였다. 그 외에도 디자인팀과 활발하게 토의하여 애플리케이션 기능의 방향성을 수립 및 점검하여 구동하기 편리한 애플리케이션을 완성하였다.

백엔드 개발팀은 애플리케이션에 전송 가능한 학사 정보를 크롤링하고 이를 저장할 수 있는 DB와 통신을 돕는 서버를 성공적으로 개발하였다. 유세인트로부터 필요한 정보를 성공적으로 크롤링 하여 원하는 정보를 가져올 수 있게끔 하였고 통신은 HTTP를 기반으로 진행하였다. 사용자로부터 받은 정보를 이용하여 그때 그때 다른 크롤링을 수행할 수 있도록 계획하였지만 실패했다.

**7-2. 향후 연구**

**7-2-1. 추후 개선 사항 및 방안**

1) 사용자로부터 받은 데이터를 토대로 크롤링을 진행하고 크롤링을 할 때마다 DB가 업데이트 되는 코드를 추가한다.

2) 숭실대학교에서 보유하고 있는 모든 학번의 학사 정보를 애플리케이션에서 지원할 수 있도록 업데이트 한다.

3) 개인 정보 보호를 위하여 유세인트 로그인 정보를 암호화하는 코드와 복호화하는 코드를 작성하여 추가한다.

4) 구글 플레이스토어에 실제로 앱을 배포하고 숭실대학교에 기획서를 제출하여 공식 애플리케이션으로 인증받는다.

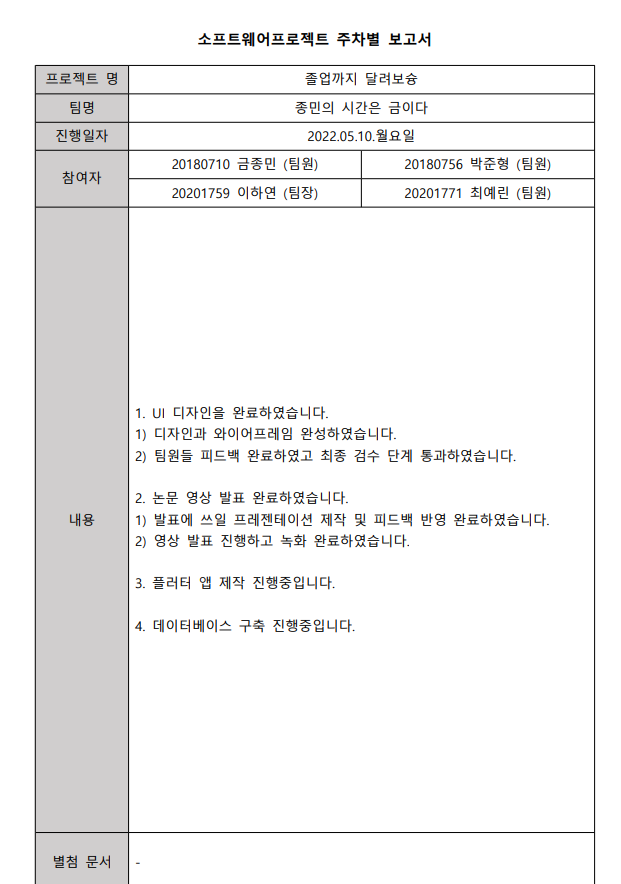
**7-2-2. 타 기술 또는 도메인으로의 파급**

1) 시간이 된다면 플러터 외에 더 친숙한 애플리케이션 환경으로 프로그램을 이식할 예정이다.

2) Heroku 호스팅 서비스 외에 더 상용화 되어있는 호스팅 서비스로 서버를 이식할 예정이다.

3) 숭실대학교 학생들 내 커뮤니티에 애플리케이션이 홍보될 수 있도록 노력할 예정이다.

**첨부 A. 회의록**



<회의록: 회의록이 10개가 넘는 관계로 10주차 회의록 한 부를 첨부합니다.>

**첨부 B. Source Code**

1) 애플리케이션 개발 코드

1-1) 로그인, 비로그인 공통기능

|  |
| --- |
| ask.dart // 문의사항 기능 |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:flutter\_email\_sender/flutter\_email\_sender.dart';  final titleController = TextEditingController();  final textController = TextEditingController();  class Ask extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_Ask();  }  class \_Ask extends State<Ask> with SingleTickerProviderStateMixin {  double opacity = 0;  Color \_color = Colors.pink;  void \_sendEmail() async {  final Email email = Email(  body: textController.text,  subject: titleController.text,  recipients: ['dbapjh@gmail.com'],  cc: [],  bcc: [],  attachmentPaths: [],  isHTML: false,  );  try {  await FlutterEmailSender.send(email);  } catch (error) {  String title = "기본 메일 앱을 사용할 수 없기 때문에 앱에서 바로 문의를 전송하기 어려운 상황입니다.\n\n아래 이메일로 연락주시면 친절하게 답변해드릴게요 :)\n\nonionfamily.official@gmail.com";  String message = "";  }  }  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  \_color = Colors.black.withOpacity(0.3);  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  actions: [SizedBox(width: 30, height: 30)],  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  body: SingleChildScrollView(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '1:1 문의',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  SizedBox(  height: 15,  ),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  SizedBox(  height: 50,  width: 350,  child: TextField(  controller: titleController,  maxLines: 1,  decoration: InputDecoration(  labelText: '제목', border: OutlineInputBorder()),  ),  ),  SizedBox(  height: 200,  width: 350,  child: TextField(  controller: textController,  maxLines: 10,  decoration: InputDecoration(  labelText: '내용을 입력하세요',  border: OutlineInputBorder(),  ),  ),  ),  ElevatedButton(  onPressed: () {  \_sendEmail();  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 2), () {  Navigator.pop(context);  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(children: <Widget>[  SizedBox(  height: 20,  ),  Icon(  Icons.mail,  size: 30,  ),  Text('전송 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  ]))),  );  },  );  titleController.text = '';  textController.text = '';  },  child: Text('전송', style: TextStyle(fontSize: 16)),  style: ButtonStyle(  backgroundColor: MaterialStateProperty.all(  Color.fromRGBO(14, 186, 223, 1)),  fixedSize:  MaterialStateProperty.all(Size.fromWidth(340)))),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| checklist.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  Color \_color1 = Colors.black.withOpacity(0.3); //전공 자격요건  Color \_color2 = Colors.black.withOpacity(0.3);  Color \_color3 = Colors.black.withOpacity(0.3);  Color \_color4 = Colors.black.withOpacity(0.3);  Color \_color5 = Colors.black.withOpacity(0.3);  Color \_color6 = Colors.black.withOpacity(0.3);  Color \_color7 = Colors.black.withOpacity(0.3);  Color \_color8 = Colors.black.withOpacity(0.3);  Color \_color9 = Colors.black.withOpacity(0.3);  Color \_color10 = Colors.black.withOpacity(0.3);  Color \_color11 = Colors.black.withOpacity(0.3);  Color \_color12 = Colors.black.withOpacity(0.3);  Color \_color13 = Colors.black.withOpacity(0.3);  Color \_color14 = Colors.black.withOpacity(0.3); //영어 요건  Color \_medal = Colors.white;  String \_str = '0/2';  class CheckList extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_CheckList();  }  class \_CheckList extends State<CheckList> with SingleTickerProviderStateMixin {  double opacity = 0;  final ruleController = TextEditingController();  String name = nameController.text;  String one = '';  String two = '';  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  one = '전공 자격요건';  two = '영어 요건';  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(children: <Widget>[  SizedBox(  height: 10,  ),  Icon(  Icons.task\_alt,  size: 30,  ),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]))),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: SingleChildScrollView(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '졸업 요건 확인 ',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  SizedBox(height: 16),  Container(  height: 80,  alignment: Alignment.center,  color: Color(0x0EBADF).withOpacity(1.0),  child: Column(children: <Widget>[  SizedBox(height: 6),  SizedBox(  child: Icon(Icons.workspace\_premium,  size: 65, color: \_medal),  ),  ]),  ),  Container(  height: 160,  color: Color(0x0EBADF).withOpacity(1.0),  alignment: Alignment.center,  child: Container(  height: 120,  width: 300,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  ),  child: Column(children: <Widget>[  SizedBox(height: 11),  SizedBox(  child: Text(\_str,  style: TextStyle(  fontSize: 46, fontWeight: FontWeight.bold))),  SizedBox(  child: Text('숭실대학교 소프트웨어학부',  style: TextStyle(  fontSize: 12,  color: Colors.black.withOpacity(0.5),  ))),  SizedBox(  child: Text('2023년도 졸업 예정',  style: TextStyle(  fontSize: 12,  color: Colors.black.withOpacity(0.5),  ))),  ]),  )),  ExpansionTile(  leading: Icon(Icons.check\_circle,  color: \_color1),  title: Text(  one,  style: TextStyle(  fontWeight: FontWeight.bold,  fontSize: 18,  color: Colors.black),  ),  initiallyExpanded: true,  backgroundColor: Color.fromRGBO(245,245,245,1),  children: <Widget>[  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color2 == Colors.black.withOpacity(0.3)){  setState((){  \_color2 = Color.fromRGBO(14, 186, 223, 1);  \_color1 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color2 = Colors.black.withOpacity(0.3);  if(\_color2==Colors.black.withOpacity(0.3)&&\_color3==Colors.black.withOpacity(0.3)&&\_color4==Colors.black.withOpacity(0.3)&&\_color5==Colors.black.withOpacity(0.3)&&\_color6==Colors.black.withOpacity(0.3)&&\_color7==Colors.black.withOpacity(0.3)&&\_color8==Colors.black.withOpacity(0.3)){  \_color1 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color2, )  ),  Container(  child: Text(  '졸업 논문',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color3 == Colors.black.withOpacity(0.3)){  setState((){  \_color3 = Color.fromRGBO(14, 186, 223, 1);  \_color1 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color3 = Colors.black.withOpacity(0.3);  if(\_color2==Colors.black.withOpacity(0.3)&&\_color3==Colors.black.withOpacity(0.3)&&\_color4==Colors.black.withOpacity(0.3)&&\_color5==Colors.black.withOpacity(0.3)&&\_color6==Colors.black.withOpacity(0.3)&&\_color7==Colors.black.withOpacity(0.3)&&\_color8==Colors.black.withOpacity(0.3)){  \_color1 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color3, )  ),  Container(  child: Text(  'TOPCIT 수준 2 이상 획득',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color4 == Colors.black.withOpacity(0.3)){  setState((){  \_color4 = Color.fromRGBO(14, 186, 223, 1);  \_color1 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color4 = Colors.black.withOpacity(0.3);  if(\_color2==Colors.black.withOpacity(0.3)&&\_color3==Colors.black.withOpacity(0.3)&&\_color4==Colors.black.withOpacity(0.3)&&\_color5==Colors.black.withOpacity(0.3)&&\_color6==Colors.black.withOpacity(0.3)&&\_color7==Colors.black.withOpacity(0.3)&&\_color8==Colors.black.withOpacity(0.3)){  \_color1 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color4, )  ),  Container(  child: Text(  '정보처리기사 1급 자격증',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color5 == Colors.black.withOpacity(0.3)){  setState((){  \_color5 = Color.fromRGBO(14, 186, 223, 1);  \_color1 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color5 = Colors.black.withOpacity(0.3);  if(\_color2==Colors.black.withOpacity(0.3)&&\_color3==Colors.black.withOpacity(0.3)&&\_color4==Colors.black.withOpacity(0.3)&&\_color5==Colors.black.withOpacity(0.3)&&\_color6==Colors.black.withOpacity(0.3)&&\_color7==Colors.black.withOpacity(0.3)&&\_color8==Colors.black.withOpacity(0.3)){  \_color1 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color5, )  ),  Container(  child: Text(  'ACM-ICPC Asia Regional 본선 진출',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color6 == Colors.black.withOpacity(0.3)){  setState((){  \_color6 = Color.fromRGBO(14, 186, 223, 1);  \_color1 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color6 = Colors.black.withOpacity(0.3);  if(\_color2==Colors.black.withOpacity(0.3)&&\_color3==Colors.black.withOpacity(0.3)&&\_color4==Colors.black.withOpacity(0.3)&&\_color5==Colors.black.withOpacity(0.3)&&\_color6==Colors.black.withOpacity(0.3)&&\_color7==Colors.black.withOpacity(0.3)&&\_color8==Colors.black.withOpacity(0.3)){  \_color1 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color6, )  ),  Container(  child: Text(  '학부 주관 S/W 공모전 동상 이상',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color7 == Colors.black.withOpacity(0.3)){  setState((){  \_color7 = Color.fromRGBO(14, 186, 223, 1);  \_color1 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color7 = Colors.black.withOpacity(0.3);  if(\_color2==Colors.black.withOpacity(0.3)&&\_color3==Colors.black.withOpacity(0.3)&&\_color4==Colors.black.withOpacity(0.3)&&\_color5==Colors.black.withOpacity(0.3)&&\_color6==Colors.black.withOpacity(0.3)&&\_color7==Colors.black.withOpacity(0.3)&&\_color8==Colors.black.withOpacity(0.3)){  \_color1 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color7, )  ),  Container(  child: Text(  '2020년 이후 학부 주관 S/W 공모전 은상 이상',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color8 == Colors.black.withOpacity(0.3)){  setState((){  \_color8 = Color.fromRGBO(14, 186, 223, 1);  \_color1 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color8 = Colors.black.withOpacity(0.3);  if(\_color2==Colors.black.withOpacity(0.3)&&\_color3==Colors.black.withOpacity(0.3)&&\_color4==Colors.black.withOpacity(0.3)&&\_color5==Colors.black.withOpacity(0.3)&&\_color6==Colors.black.withOpacity(0.3)&&\_color7==Colors.black.withOpacity(0.3)&&\_color8==Colors.black.withOpacity(0.3)){  \_color1 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color8, )  ),  Container(  child: Text(  '전공설계과목 중 2과목이상 이수',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  ]),  ExpansionTile(  leading: Icon(Icons.check\_circle,  color: \_color14),  title: Text(  two,  style: TextStyle(  fontWeight: FontWeight.bold,  fontSize: 18,  color: Colors.black),  ),  initiallyExpanded: true,  backgroundColor: Color.fromRGBO(245,245,245,1),  children: <Widget>[  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color9 == Colors.black.withOpacity(0.3)){  setState((){  \_color9 = Color.fromRGBO(14, 186, 223, 1);  \_color14 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color9 = Colors.black.withOpacity(0.3);  if(\_color9==Colors.black.withOpacity(0.3)&&\_color10==Colors.black.withOpacity(0.3)&&\_color11==Colors.black.withOpacity(0.3)&&\_color12==Colors.black.withOpacity(0.3)&&\_color13==Colors.black.withOpacity(0.3)){  \_color14 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color9, )  ),  Container(  child: Text(  'TOEIC 600점 이상',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color10 == Colors.black.withOpacity(0.3)){  setState((){  \_color10 = Color.fromRGBO(14, 186, 223, 1);  \_color14 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color10 = Colors.black.withOpacity(0.3);  if(\_color9==Colors.black.withOpacity(0.3)&&\_color10==Colors.black.withOpacity(0.3)&&\_color11==Colors.black.withOpacity(0.3)&&\_color12==Colors.black.withOpacity(0.3)&&\_color13==Colors.black.withOpacity(0.3)){  \_color14 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color10, )  ),  Container(  child: Text(  'TOEFL iBT 64점 이상',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color11 == Colors.black.withOpacity(0.3)){  setState((){  \_color11 = Color.fromRGBO(14, 186, 223, 1);  \_color14 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color11 = Colors.black.withOpacity(0.3);  if(\_color9==Colors.black.withOpacity(0.3)&&\_color10==Colors.black.withOpacity(0.3)&&\_color11==Colors.black.withOpacity(0.3)&&\_color12==Colors.black.withOpacity(0.3)&&\_color13==Colors.black.withOpacity(0.3)){  \_color14 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color11, )  ),  Container(  child: Text(  'TEPS 502점 이상',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color12 == Colors.black.withOpacity(0.3)){  setState((){  \_color12 = Color.fromRGBO(14, 186, 223, 1);  \_color14 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color12 = Colors.black.withOpacity(0.3);  if(\_color9==Colors.black.withOpacity(0.3)&&\_color10==Colors.black.withOpacity(0.3)&&\_color11==Colors.black.withOpacity(0.3)&&\_color12==Colors.black.withOpacity(0.3)&&\_color13==Colors.black.withOpacity(0.3)){  \_color14 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color12, )  ),  Container(  child: Text(  'OPIc iM2 이상',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  Divider(  height: 3,  color: Colors.black.withOpacity(0.5),  ),  Container(  height: 40,  child: Row(  children: [  ElevatedButton(  style: ElevatedButton.styleFrom(  primary: Color.fromRGBO(245,245,245,1),  elevation: 0,  ),  onPressed: () {  if(\_color13 == Colors.black.withOpacity(0.3)){  setState((){  \_color13 = Color.fromRGBO(14, 186, 223, 1);  \_color14 = Color.fromRGBO(0, 110, 148, 1);  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  else{  setState((){  \_color13 = Colors.black.withOpacity(0.3);  if(\_color9==Colors.black.withOpacity(0.3)&&\_color10==Colors.black.withOpacity(0.3)&&\_color11==Colors.black.withOpacity(0.3)&&\_color12==Colors.black.withOpacity(0.3)&&\_color13==Colors.black.withOpacity(0.3)){  \_color14 = Colors.black.withOpacity(0.3);  }  if(\_color1==Color.fromRGBO(0, 110, 148, 1)&&\_color14==Color.fromRGBO(0, 110, 148, 1)){  \_str = '2/2';  }  else if(\_color1==Colors.black.withOpacity(0.3)&&\_color14==Colors.black.withOpacity(0.3)){  \_str = '0/2';  }  else{  \_str = '1/2';  }  if(\_str == '2/2'){  \_medal = Colors.yellow;  }  else{  \_medal = Colors.white;  }  });  }  },  child: Icon(Icons.check\_circle, size: 18, color: \_color13, )  ),  Container(  child: Text(  'TOEIC Speaking Level 5(110점) 이상',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16,  ),  ),  ),  ],  ),  ),  ]),  ],  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| notice.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  class Notice extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_Notice();  }  class \_Notice extends State<Notice> with SingleTickerProviderStateMixin {  double opacity = 0;  final myController = TextEditingController();  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  actions: [  SizedBox(  width: 30,  height: 30  )  ],  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '공지사항',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {},  child: Text(  '오류 수정v1.0',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {},  child: Text(  '서비스 장애 공지',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {},  child: Text(  '유세인트 인증에 관한 안내',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| Q1.dart, Q2.dart, Q3.dart, Q4.dart, Q5.dart, Q6.dart, Q7.dart, Q8.dart  // 질문과 답변 항목 내용만 다르기 때문에 묶어서 같이 첨부 |
| import 'dart:async';  import 'package:flutter/material.dart';  class Q1 extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_Q1();  }  class \_Q1 extends State<Q1> with SingleTickerProviderStateMixin {  double opacity = 0;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  actions: [  SizedBox(  width: 30,  height: 30  )  ],  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '졸업 관련 교칙 확인',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {},  child: Text(  'Q. 재수강은 과목 이름만 같으면 되나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Container(  width: 350,  height: 250,  color: Color.fromRGBO(113, 219, 219, 0.1),  child: Center(  child: Container(  width: 300,  height: 220,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  boxShadow: [  BoxShadow(  color: Colors.grey.withOpacity(0.6),  offset: Offset(0, 7))  ],  ),  child: Column(children: <Widget>[  Container(  height: 110,  alignment: Alignment(0.7, 0.5),  child: Icon(Icons.task\_alt, size: 48)),  Text(  '재수강은 학수 번호와 과목명이 동일하면\n수강 가능합니다. 재수강을 통해\n얻을 수 있는 최대 학점은 A- 입니다. ',  style: TextStyle(fontSize: 16)),  ])))),  Row(children: <Widget>[  Container(  height:50,  width:350,  alignment: Alignment(1,-0.4),  child: TextButton(  onPressed: () {  Navigator.of(context).pop();  },  child: Text(  '목록으로 돌아가기',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18  )  )  )  )]),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

2-1) 첫 화면

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| login.dart |
| import 'dart:async';  import 'dart:math';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/unsigned/unnickname.dart';  import 'package:url\_launcher/url\_launcher.dart';  class LoginPage extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_LoginPage();  }  class \_LoginPage extends State<LoginPage> with SingleTickerProviderStateMixin {  double opacity = 0;  AnimationController? \_animationController;  Animation? \_animation;  TextEditingController? \_idTextController;  TextEditingController? \_pwTextController;  Color \_color = Colors.black.withOpacity(0.3);  urlRun() async {  String url = "https://class.ssu.ac.kr/";  if (await canLaunch(url)) {  await launch(url);  }  else {  throw 'Could not launch $url';  }  }  @override  void initState() {  super.initState();  \_idTextController = TextEditingController();  \_pwTextController = TextEditingController();  \_animationController =  AnimationController(duration: Duration(seconds: 3), vsync: this);  \_animation =  Tween<double>(begin: 0, end: pi \* 2).animate(\_animationController!);  \_animationController!.repeat();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  nameController.text = '이하연';  unnameController.text = '로그인 하세요';  }  @override  void dispose() {  \_animationController!.dispose();  super.dispose();  }  @override  Widget build(BuildContext context) {  return Scaffold(  body: Container(  color: Colors.white,  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 150,  child: Center(  child: Text(  '졸업까지\n달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontWeight: FontWeight.bold,  fontSize: 48),  ),  ),  ),  SizedBox(  height: 50,  child: Center(  child: Text(  'LOG IN',  style: TextStyle(fontWeight: FontWeight.bold, fontSize: 40),  ),  ),  ),  AnimatedOpacity(  opacity: opacity,  duration: Duration(seconds: 1),  child: Column(  children: <Widget>[  Container(  height: 40,  width: 300,  color: Color.fromRGBO(233, 233, 233, 1),  child: TextField(  controller: \_idTextController,  maxLines: 1,  decoration: InputDecoration(  labelText: '아이디', border: OutlineInputBorder()),  ),  ),  SizedBox(  height: 15,  ),  Container(  height: 40,  width: 300,  color: Color.fromRGBO(233, 233, 233, 1),  child: TextField(  controller: \_pwTextController,  obscureText: true,  maxLines: 1,  decoration: InputDecoration(  labelText: '비밀번호', border: OutlineInputBorder()),  ),  ),  Container(  height: 60,  width: 300,  child: Row(  children: <Widget>[  Container(  width: 120,  ),  Container(  width: 180,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  urlRun();  },  child: Text(  '아이디/비밀번호 찾기',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 14,  ),  ),  ))  ],  ),  ),  ElevatedButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/save');  },  child: Text('LOG IN'),  style: ButtonStyle(  backgroundColor: MaterialStateProperty.all(  Color.fromRGBO(14, 186, 223, 1)),  fixedSize: MaterialStateProperty.all(  Size.fromWidth(300)))),  TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign');  },  child: Text(  '로그인 하지 않고 사용',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  decoration: TextDecoration.underline),  ))  ],  ),  )  ],  mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| mainscreen.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/signed/excel.dart';  import 'package:navi/model/savedata.dart' as sd;  int grade = sd.grade;  int semester = sd.semester;  bool possible = sd.possible;  final int number = sd.number;  int numberfour = 0;  class MainScreen extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_MainScreen();  }  class \_MainScreen extends State<MainScreen>  with SingleTickerProviderStateMixin {  double opacity = 0;  final mainController = TextEditingController();  String name = nameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  numberfour = number~/10000;  totalsemester = grade\*2-3+semester;  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  title: Text('졸업까지 달려보슝', style:  TextStyle(color: Color.fromRGBO(14,186,223,1),  fontWeight: FontWeight.bold, fontSize: 20)),  centerTitle: true,  leading: IconButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  icon: Icon(Icons.person),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)  ),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(  children: <Widget>[  SizedBox(  height: 10,  ),  Icon(Icons.task\_alt,size: 30,),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]  )  )  ),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: SingleChildScrollView(  child: Center(  child: Column(  children: <Widget>[  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 130,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('본인의 학점 이수 현황을\n그래프로 쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 157,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/firstback');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/firstback');  },  child: Text('선후수 과목과 본인의 이수 현황을\n쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 169,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('학부의 졸업 요건과 본인의 달성 현황을\n쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 127,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('학부의 졸업 요건과 본인의 달성 현황을\n쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/excel');  },  child: Text('졸업사정표 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 155,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/excel');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/excel');  },  child: Text('학부의 졸업 요건과 본인의 달성 현황을\n쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| unmainscreen.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/unsigned/unnickname.dart';  class unMainScreen extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_unMainScreen();  }  class \_unMainScreen extends State<unMainScreen>  with SingleTickerProviderStateMixin {  double opacity = 0;  final unmainController = TextEditingController();  String name = unnameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  title: Text('졸업까지 달려보슝', style:  TextStyle(color: Color.fromRGBO(14,186,223,1),  fontWeight: FontWeight.bold, fontSize: 20)),  centerTitle: true,  leading: IconButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unmypage');  },  icon: Icon(Icons.person),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('상세정보 로그인 필요 ',  style: TextStyle(  fontSize: 14,  color: Colors.black.withOpacity(0.5),  )),  ),  ElevatedButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text('LOG IN', style: TextStyle(fontSize: 16)),  style: ButtonStyle(  backgroundColor: MaterialStateProperty.all(  Color.fromRGBO(14, 186, 223, 1)),  fixedSize: MaterialStateProperty.all(Size.fromWidth(30)))),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: Container(  height: 100,  width: 200,  alignment: Alignment.bottomCenter,  child: Container(  width: 200,  height: 90,  alignment: Alignment.bottomCenter,  child: Column(children: <Widget>[  Icon(  Icons.error,  size: 30,  ),  Text('로그인 필요',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Container(  alignment: Alignment.center,  height: 30,  child: Row(children: <Widget>[  TextButton(  onPressed: () {  Navigator.pop(context);  Navigator.of(context).pushNamed(  '/login/unsign/unnuminput');  },  child: Text('로그인하지 않고 사용',  style: TextStyle(  fontSize: 12,  color: Colors.black  .withOpacity(0.5),  ))),  TextButton(  onPressed: () {  Navigator.pop(context);  },  child: Text('돌아가기',  style: TextStyle(  fontSize: 12,  color: Colors.black  .withOpacity(0.5),  )))  ])),  ]))),  );  },  );  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/unsign/unfirstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unrule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unmypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: SingleChildScrollView(  child: Center(  child: Column(  children: <Widget>[  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed(  '/login/unsign/uncheck');  },  child: Text('이수 학점 현황 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 130,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context).pushNamed(  '/login/unsign/uncheck');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed(  '/login/unsign/uncheck');  },  child: Text('본인의 학점 이수 현황을\n그래프로 쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/unsign/unfirstback');  },  child: Text('선후수과목 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 157,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/unsign/unfirstback');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/unsign/unfirstback');  },  child: Text('선후수 과목과 본인의 이수 현황을\n쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/checklist');  },  child: Text('졸업 요건 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 169,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/checklist');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/checklist');  },  child: Text('학부의 졸업 요건과 본인의 달성 현황을\n쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unrule');  },  child: Text('졸업 관련 교칙 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 127,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unrule');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unrule');  },  child: Text('학부의 졸업 요건과 본인의 달성 현황을\n쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 2), () {  Navigator.pop(context);  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(children: <Widget>[  SizedBox(  height: 20,  ),  Icon(  Icons.error,  size: 30,  ),  Text('로그인 필요',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  ]))),  );  },  );  },  child: Text('졸업사정표 확인',  style: TextStyle(  fontSize: 20,  color: Colors.black,  fontWeight: FontWeight.bold,  )),  ),  ),  SizedBox(  width: 155,  ),  SizedBox(  height: 30,  child: IconButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 2), () {  Navigator.pop(context);  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(children: <Widget>[  SizedBox(  height: 20,  ),  Icon(  Icons.error,  size: 30,  ),  Text('로그인 필요',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  ]))),  );  },  );  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 2), () {  Navigator.pop(context);  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(children: <Widget>[  SizedBox(  height: 20,  ),  Icon(  Icons.error,  size: 30,  ),  Text('로그인 필요',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  ]))),  );  },  );  },  child: Text('학부의 졸업 요건과 본인의 달성 현황을\n쉽게 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 16)))),  ]),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

1-3) 데이터 관련 코드

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| --- |
| api\_adapter.dart |
| import 'dart:convert';  import 'model\_crawldata.dart';  List<CrawlData> parseCrawlData(String responseBody){  final parsed = json.decode(responseBody).cast<Map<String, dynamic>>();  return parsed.map<CrawlData>((json)=>CrawlData.fromJson(json)).toList();  } |

|  |
| --- |
| model\_crawldata.dart |
| class CrawlData{  int studentID = 0;  int studentGrade = 0;  int studentSemester = 0;  bool studentEnrolled = false;  double graduateScore = 0.0;  bool canGraduate = false;  double grad133\_f = 0.0;  int christ4\_f = 0;  int softeng60\_f = 0;  int softbsm18\_f = 0;  int prosoft12\_f = 0;  int archsoft12\_f = 0;  bool pyeonip\_f = false;  bool gradtest\_f = false;  bool elementsci\_f = false;  bool allarch\_f = false;  bool engarchelem\_f = false;  bool matheng\_f = false;  bool gradnotice\_f = false;  int libartess\_f = 0;  int libartselect\_f = 0;  int leadership\_f = 0;  int comglobal\_f = 0;  int majorelemsoft\_f = 0;  int majoresssoft\_f = 0;  int majorsoft\_f = 0;  bool libertyart\_f = false;  bool chaple = false;  CrawlData({  required this.studentID, required this.studentGrade, required this.studentSemester, required this.studentEnrolled,  required this.graduateScore,  required this.canGraduate,  required this.grad133\_f,  required this.christ4\_f, required this.softeng60\_f, required this.softbsm18\_f, required this.prosoft12\_f, required this.archsoft12\_f,  required this.pyeonip\_f, required this.gradtest\_f, required this.elementsci\_f, required this.allarch\_f, required this.engarchelem\_f, required this.matheng\_f, required this.gradnotice\_f,  required this.libartess\_f, required this.libartselect\_f, required this.leadership\_f, required this.comglobal\_f, required this.majorelemsoft\_f, required this.majoresssoft\_f, required this.majorsoft\_f,  required this.libertyart\_f, required this.chaple  });  CrawlData.fromMap(Map<String, dynamic> map)  : studentID = map['studentID'],  studentGrade = map['studentGrade'],  studentSemester = map['studentSemester'],  studentEnrolled = map['studentEnrolled'],  graduateScore = map['graduateScore'],  canGraduate = map['canGraduate'],  grad133\_f = map['grad133\_f'],  softeng60\_f = map['softeng60\_f'],  softbsm18\_f = map['softbsm18\_f'],  prosoft12\_f = map['prosoft12\_f'],  archsoft12\_f = map['archsoft12\_f'],  pyeonip\_f = map['pyeonip\_f'],  gradtest\_f = map['gradtest\_f'],  elementsci\_f = map['elementsci\_f'],  allarch\_f = map['allarch\_f'],  engarchelem\_f = map['engarchelem\_f'],  matheng\_f = map['matheng\_f'],  gradnotice\_f = map['gradnotice\_f'],  libartess\_f = map['libartess\_f'],  libartselect\_f = map['libartselect\_f'],  leadership\_f = map['leadership\_f'],  comglobal\_f = map['comglobal\_f'],  majorelemsoft\_f = map['majorelemsoft\_f'],  majoresssoft\_f = map['majoresssoft\_f'],  majorsoft\_f = map['majorsoft\_f'],  libertyart\_f = map['libertyart\_f'],  chaple = map['libertyart\_f'];  CrawlData.fromJson(Map<String, dynamic> json)  : studentID = json['studentID'],  studentGrade = json['studentGrade'],  studentSemester = json['studentSemester'],  studentEnrolled = json['studentEnrolled'],  graduateScore = json['graduateScore'],  canGraduate = json['canGraduate'],  grad133\_f = json['grad133\_f'],  softeng60\_f = json['softeng60\_f'],  softbsm18\_f = json['softbsm18\_f'],  prosoft12\_f = json['prosoft12\_f'],  archsoft12\_f = json['archsoft12\_f'],  pyeonip\_f = json['pyeonip\_f'],  gradtest\_f = json['gradtest\_f'],  elementsci\_f = json['elementsci\_f'],  allarch\_f = json['allarch\_f'],  engarchelem\_f = json['engarchelem\_f'],  matheng\_f = json['matheng\_f'],  gradnotice\_f = json['gradnotice\_f'],  libartess\_f = json['libartess\_f'],  libartselect\_f = json['libartselect\_f'],  leadership\_f = json['leadership\_f'],  comglobal\_f = json['comglobal\_f'],  majorelemsoft\_f = json['majorelemsoft\_f'],  majoresssoft\_f = json['majoresssoft\_f'],  majorsoft\_f = json['majorsoft\_f'],  libertyart\_f = json['libertyart\_f'],  chaple = json['libertyart\_f'];  } |

|  |
| --- |
| savedata.dart |
| import 'package:flutter/material.dart';  import 'package:http/http.dart' as http;  import 'dart:convert';  import 'package:navi/model/model\_crawldata.dart';  import 'package:navi/model/api\_adapter.dart';  import 'dart:async';  import 'package:navi/first/mainscreen.dart';  int number = 0; //학번  int grade = 0; //학년  int semester = 0; //학기  bool ing = false; //재학 중인지  double result = 0.0; //졸업 성적(학점)  bool possible = false; //졸업 가능한지  double first = 0.0; //졸업학점 133  int forth = 0; //기독교과목 4학점 이상  int fifth = 0; //주제-소프트공인증 60  int sixth = 0; //BSM-소프트공인증 18  int seventh = 0; //전문교양 - 소프트공인증 12  int eighth = 0; //설계-소프트공인증 12  bool gcheck7 = false; //편입 요이수 지정과목  bool gcheck8 = false; //졸업논문/졸업시험 이수  bool gcheck9 = false; //기초과학(실험)  bool gcheck10 = false; //종합설계  bool gcheck11 = false; //공학설계입문  bool gcheck12 = false; //수학  bool gcheck13 = false; //졸업확정신고 여부  int one = 0; //교양필수 16  int two = 0; //교양선택 12  int three = 0; //교선 공동체/리더십  int four = 0; //교선 의사소통/글로벌  int five = 0; //전기 소프트 18  int six = 0; //전필 소프트15  int seven = 0; //전공 소프트 66  bool ccheck8 = false; //교선 창의융합 2개 영역  bool ccheck9 = false; //채플 6회  int a1 = 0;  int a2 = 0;  int b1 = 0;  int b2 = 0;  int b3 = 0;  int c1 = 0;  int c2 = 0;  int c3 = 0;  class savedata extends StatefulWidget{  @override  \_savedataState createState()=> \_savedataState();  }  class \_savedataState extends State<savedata> {  List<CrawlData> datas = [];  bool isLoading = false;  \_fetchDatas() async {  setState(() {  isLoading = true;  });  final response = await http.get(  Uri.parse('https://usaintnavi.herokuapp.com/data/1/'));  if (response.statusCode == 200) {  setState(() {  datas = parseCrawlData(utf8.decode(response.bodyBytes));  isLoading = false;  number = datas  .elementAt(0)  .studentID; //학번  grade = datas  .elementAt(0)  .studentGrade; //학년  semester = datas  .elementAt(0)  .studentSemester; //학기  ing = datas  .elementAt(0)  .studentEnrolled; //재학 중인지  result = datas  .elementAt(0)  .graduateScore; //졸업 성적(학점)  possible = datas  .elementAt(0)  .canGraduate; //졸업 가능한지  first = datas  .elementAt(0)  .grad133\_f; //졸업학점 133  forth = datas  .elementAt(0)  .christ4\_f; //기독교과목 4학점 이상  fifth = datas  .elementAt(0)  .softeng60\_f; //주제-소프트공인증 60  sixth = datas  .elementAt(0)  .softbsm18\_f; //BSM-소프트공인증 18  seventh = datas  .elementAt(0)  .prosoft12\_f; //전문교양 - 소프트공인증 12  eighth = datas  .elementAt(0)  .archsoft12\_f; //설계-소프트공인증 12  gcheck7 = datas  .elementAt(0)  .pyeonip\_f; //편입 요이수 지정과목  gcheck8 = datas  .elementAt(0)  .gradtest\_f; //졸업논문/졸업시험 이수  gcheck9 = datas  .elementAt(0)  .elementsci\_f; //기초과학(실험)  gcheck10 = datas  .elementAt(0)  .allarch\_f; //종합설계  gcheck11 = datas  .elementAt(0)  .engarchelem\_f; //공학설계입문  gcheck12 = datas  .elementAt(0)  .matheng\_f; //수학  gcheck13 = datas  .elementAt(0)  .gradnotice\_f; //졸업확정신고 여부  one = datas  .elementAt(0)  .libartess\_f; //교양필수 16  two = datas  .elementAt(0)  .libartselect\_f; //교양선택 12  three = datas  .elementAt(0)  .leadership\_f; //교선 공동체/리더십  four = datas  .elementAt(0)  .comglobal\_f; //교선 의사소통/글로벌  five = datas  .elementAt(0)  .majorelemsoft\_f; //전기 소프트 18  six = datas  .elementAt(0)  .majoresssoft\_f; //전필 소프트15  seven = datas  .elementAt(0)  .majorsoft\_f; //전공 소프트 66  ccheck8 = datas  .elementAt(0)  .libertyart\_f; //교선 창의융합 2개 영역  ccheck9 = datas  .elementAt(0)  .chaple; //채플 6회  a1 = (five+six+seven); //총 전공 학점  a2 = (one+two); //총 교양 학점  b1 = six; //전공필수 학점  b2 = five; //전공기초 학점  b3 = seven; //전공선택 학점  c1 = one; //교양필수 학점  c2 = two; //교양선택 학점  c3 = forth; //기독교과목 학점  });  } else {  throw Exception('failed to load data');  }  }  @override  void initState(){  \_fetchDatas();  Timer(  Duration(seconds: 15),  () => Navigator.push(  context,  MaterialPageRoute(builder: (context) => MainScreen()),  ),  );  }  @override  Widget build(BuildContext context) {  double width = MediaQuery.of(context).size.width;  double height = MediaQuery.of(context).size.height;  return Container(  decoration: BoxDecoration(  image: DecorationImage(  image: AssetImage('image/dataloading.png'), fit: BoxFit.contain),  ),  child: Stack(  children: <Widget>[  Positioned(  top: 0.0,  left: 0.0,  child: Container(  width: width,  height: height,  child: Scaffold(  backgroundColor: Colors.transparent,  body: Padding(  padding: EdgeInsets.all(8.0),  child: Center(),  ),  ),  ),  ),  ],  ),  );  }  } |

1-4) 로그인 했을 경우 기능 구현

|  |
| --- |
| check.dart // |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:syncfusion\_flutter\_charts/charts.dart';  import 'package:percent\_indicator/percent\_indicator.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  import 'package:navi/model/savedata.dart' as sd;  class Check extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_Check();  }  class \_Check extends State<Check> with SingleTickerProviderStateMixin {  double opacity = 0;  Color \_color = Color.fromRGBO(0, 110, 148, 1);  int a1 = sd.a1;  int a2 = sd.a2;  int b1 = sd.b1;  int b2 = sd.b2;  int b3 = sd.b3;  int c1 = sd.c1;  int c2 = sd.c2;  int c3 = sd.c3;  int lefta = 0;  int pera = 0;  int leftb = 0;  int perb = 0;  int leftc = 0;  int perc = 0;  int totala = 0;  int totalb = 0;  int totalc = 0;  double a11 = 0;  double a22 = 0;  double b11 = 0;  double b22 = 0;  double b33 = 0;  double c11 = 0;  double c22 = 0;  double c33 = 0;  late List<Data> \_AchartData;  late List<Data> \_BchartData;  late List<Data> \_CchartData;  String name = nameController.text;  @override  void initState() {  super.initState();  \_color = Color.fromRGBO(0, 110, 148, 1);  \_AchartData = getAChartData();  \_BchartData = getBChartData();  \_CchartData = getCChartData();  lefta = getCalcAData(a1, a2);  pera = getPerAData(lefta);  leftb = getCalcBData(b1, b2, b3);  perb = getPerBData(leftb);  leftc = getCalcCData(c1, c2, c3);  perc = getPerCData(leftc);  totala = a1 + a2;  totalb = b1 + b2 + b3;  totalc = c1 + c2 + c3;  if(a1 / 99 >= 1){  a11 = 1;  }  else{  a11 = a1 / 99;  }  if(a2 / 32 >= 1.0){  a22 = 1;  }  else{  a22 = a2 / 32;  }  if(b1 / 15 >= 1.0){  b11 = 1;  }  else{  b11 = b1 / 15;  }  if(b2 / 18 >= 1.0){  b22 = 1;  }  else{  b22 = b2 / 18;  }  if(b3 / 66 >= 1.0){  b33 = 1;  }  else{  b33 = b3 / 66;  }  if(c1 / 16 >= 1.0){  c11 = 1;  }  else{  c11 = c1 / 16;  }  if(c2 / 12 >= 1.0){  c22 = 1;  }  else{  c22 = c2 / 12;  }  if(c3 / 4 >= 1.0){  c33 = 1;  }  else{  c33 = c3 / 4;  }  }  @override  Widget build(BuildContext context) {  return DefaultTabController(  length: 3,  child: Scaffold(  appBar: AppBar(  bottom: TabBar(  indicatorWeight: 6,  tabs: [  Tab(  child: Text('전체',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ))),  Tab(  child: Text('전공',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ))),  Tab(  child: Text('교양',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ))),  ],  ),  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(children: <Widget>[  SizedBox(  height: 10,  ),  Icon(  Icons.task\_alt,  size: 30,  ),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black  .withOpacity(0.5),  )),  ]))),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: TabBarView(children: <Widget>[  SingleChildScrollView(  child: Column(  children: <Widget>[  Text('소프트웨어학부',  style: TextStyle(  color: Color.fromRGBO(161, 161, 161, 1),  fontSize: 16)),  SfCircularChart(annotations: <CircularChartAnnotation>[  CircularChartAnnotation(  widget: Container(  child: PhysicalModel(  child: Container(),  shape: BoxShape.circle,  elevation: 10,  shadowColor: Colors.black,  color:  const Color.fromRGBO(230, 230, 230, 1)))),  CircularChartAnnotation(  widget: Container(  child: Column(children: <Widget>[  Text('$pera%',  style: TextStyle(  color: Colors.black,  fontSize: 40,  fontWeight: FontWeight.bold)),  Text('$totala/133',  style: TextStyle(  color: Color.fromRGBO(161, 161, 161, 1),  fontSize: 20))  ])))  ], series: <CircularSeries>[  DoughnutSeries<Data, String>(  dataSource: \_AchartData,  pointColorMapper: (Data data, \_) => data.color,  xValueMapper: (Data data, \_) => data.x,  yValueMapper: (Data data, \_) => data.y,  radius: '100%')  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 30,  ),  Icon(Icons.circle, color: Color.fromRGBO(113, 219, 219, 1)),  Text('전공',  style: TextStyle(  fontSize: 20,  ))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 50),  Text('$a1',  style: TextStyle(  fontSize: 36, fontWeight: FontWeight.bold)),  Text('/99',  style: TextStyle(  fontSize: 20, fontWeight: FontWeight.bold)),  SizedBox(width: 140),  if (a1 >= 99) Icon(Icons.check\_circle, color: \_color),  if (a1 >= 99)  Text('PASS',  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold,  color: \_color))  ]),  SizedBox(height: 10),  Container(  margin: EdgeInsets.only(left: 50, right: 50),  alignment: Alignment.center,  child: LinearPercentIndicator(  //leaner progress bar  animation: true,  animationDuration: 1000,  lineHeight: 12.0,  percent: a11,  linearStrokeCap: LinearStrokeCap.roundAll,  progressColor: Color.fromRGBO(  113,  219,  219,  1,  ),  backgroundColor: Colors.grey[300],  ),  ),  SizedBox(height: 10),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(  width: 30,  ),  Icon(Icons.circle, color: Color.fromRGBO(0, 110, 148, 1)),  Text('교양',  style: TextStyle(  fontSize: 20,  ))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 50),  Text('$a2',  style: TextStyle(  fontSize: 36, fontWeight: FontWeight.bold)),  Text('/32',  style: TextStyle(  fontSize: 20, fontWeight: FontWeight.bold)),  SizedBox(width: 140),  if (a2 >= 32) Icon(Icons.check\_circle, color: \_color),  if (a2 >= 32)  Text('PASS',  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold,  color: \_color))  ]),  SizedBox(height: 10),  Container(  margin: EdgeInsets.only(left: 50, right: 50),  alignment: Alignment.center,  child: LinearPercentIndicator(  //leaner progress bar  animation: true,  animationDuration: 1000,  lineHeight: 12.0,  percent: a22,  linearStrokeCap: LinearStrokeCap.roundAll,  progressColor: Color.fromRGBO(0, 110, 148, 1),  backgroundColor: Colors.grey[300],  ),  ),  SizedBox(height: 20),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  ],  )),  SingleChildScrollView(  child: Column(  children: <Widget>[  Text('소프트웨어학부',  style: TextStyle(  color: Color.fromRGBO(161, 161, 161, 1),  fontSize: 16)),  SfCircularChart(annotations: <CircularChartAnnotation>[  CircularChartAnnotation(  widget: Container(  child: PhysicalModel(  child: Container(),  shape: BoxShape.circle,  elevation: 10,  shadowColor: Colors.black,  color:  const Color.fromRGBO(230, 230, 230, 1)))),  CircularChartAnnotation(  widget: Container(  child: Column(children: <Widget>[  Text('$perb%',  style: TextStyle(  color: Colors.black,  fontSize: 40,  fontWeight: FontWeight.bold)),  Text('$totalb/99',  style: TextStyle(  color: Color.fromRGBO(161, 161, 161, 1),  fontSize: 20))  ])))  ], series: <CircularSeries>[  DoughnutSeries<Data, String>(  dataSource: \_BchartData,  pointColorMapper: (Data data, \_) => data.color,  xValueMapper: (Data data, \_) => data.x,  yValueMapper: (Data data, \_) => data.y,  radius: '100%')  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 30,  ),  Icon(Icons.circle, color: Color.fromRGBO(113, 219, 219, 1)),  Text('전공필수',  style: TextStyle(  fontSize: 20,  ))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 50),  Text('$b1',  style: TextStyle(  fontSize: 36, fontWeight: FontWeight.bold)),  Text('/15',  style: TextStyle(  fontSize: 20, fontWeight: FontWeight.bold)),  SizedBox(width: 140),  if (b1 >= 15) Icon(Icons.check\_circle, color: \_color),  if (b1 >= 15)  Text('PASS',  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold,  color: \_color))  ]),  SizedBox(height: 10),  Container(  margin: EdgeInsets.only(left: 50, right: 50),  alignment: Alignment.center,  child: LinearPercentIndicator(  //leaner progress bar  animation: true,  animationDuration: 1000,  lineHeight: 12.0,  percent: b11,  linearStrokeCap: LinearStrokeCap.roundAll,  progressColor: Color.fromRGBO(  113,  219,  219,  1,  ),  backgroundColor: Colors.grey[300],  ),  ),  SizedBox(height: 10),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(  width: 30,  ),  Icon(Icons.circle, color: Color.fromRGBO(0, 110, 148, 1)),  Text('전공기초',  style: TextStyle(  fontSize: 20,  ))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 50),  Text('$b2',  style: TextStyle(  fontSize: 36, fontWeight: FontWeight.bold)),  Text('/18',  style: TextStyle(  fontSize: 20, fontWeight: FontWeight.bold)),  SizedBox(width: 140),  if (b2 >= 18) Icon(Icons.check\_circle, color: \_color),  if (b2 >= 18)  Text('PASS',  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold,  color: \_color))  ]),  SizedBox(height: 10),  Container(  margin: EdgeInsets.only(left: 50, right: 50),  alignment: Alignment.center,  child: LinearPercentIndicator(  //leaner progress bar  animation: true,  animationDuration: 1000,  lineHeight: 12.0,  percent: b22,  linearStrokeCap: LinearStrokeCap.roundAll,  progressColor: Color.fromRGBO(0, 110, 148, 1),  backgroundColor: Colors.grey[300],  ),  ),  SizedBox(height: 20),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(  width: 30,  ),  Icon(Icons.circle, color: Color.fromRGBO(14, 186, 223, 1)),  Text('전공선택',  style: TextStyle(  fontSize: 20,  ))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 50),  Text('$b3',  style: TextStyle(  fontSize: 36, fontWeight: FontWeight.bold)),  Text('/66',  style: TextStyle(  fontSize: 20, fontWeight: FontWeight.bold)),  SizedBox(width: 140),  if (b3 >= 66) Icon(Icons.check\_circle, color: \_color),  if (b3 >= 66)  Text('PASS',  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold,  color: \_color))  ]),  SizedBox(height: 10),  Container(  margin: EdgeInsets.only(left: 50, right: 50),  alignment: Alignment.center,  child: LinearPercentIndicator(  //leaner progress bar  animation: true,  animationDuration: 1000,  lineHeight: 12.0,  percent: b33,  linearStrokeCap: LinearStrokeCap.roundAll,  progressColor: Color.fromRGBO(14, 186, 223, 1),  backgroundColor: Colors.grey[300],  ),  ),  SizedBox(height: 20),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  ],  )),  SingleChildScrollView(  child: Column(  children: <Widget>[  Text('소프트웨어학부',  style: TextStyle(  color: Color.fromRGBO(161, 161, 161, 1),  fontSize: 16)),  SfCircularChart(annotations: <CircularChartAnnotation>[  CircularChartAnnotation(  widget: Container(  child: PhysicalModel(  child: Container(),  shape: BoxShape.circle,  elevation: 10,  shadowColor: Colors.black,  color:  const Color.fromRGBO(230, 230, 230, 1)))),  CircularChartAnnotation(  widget: Container(  child: Column(children: <Widget>[  Text('$perc%',  style: TextStyle(  color: Colors.black,  fontSize: 40,  fontWeight: FontWeight.bold)),  Text('$totalc/32',  style: TextStyle(  color: Color.fromRGBO(161, 161, 161, 1),  fontSize: 20))  ])))  ], series: <CircularSeries>[  DoughnutSeries<Data, String>(  dataSource: \_CchartData,  pointColorMapper: (Data data, \_) => data.color,  xValueMapper: (Data data, \_) => data.x,  yValueMapper: (Data data, \_) => data.y,  radius: '100%')  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 30,  ),  Icon(Icons.circle, color: Color.fromRGBO(113, 219, 219, 1)),  Text('교양필수',  style: TextStyle(  fontSize: 20,  ))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 50),  Text('$c1',  style: TextStyle(  fontSize: 36, fontWeight: FontWeight.bold)),  Text('/16',  style: TextStyle(  fontSize: 20, fontWeight: FontWeight.bold)),  SizedBox(width: 140),  if (c1 >= 16) Icon(Icons.check\_circle, color: \_color),  if (c1 >= 16)  Text('PASS',  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold,  color: \_color))  ]),  SizedBox(height: 10),  Container(  margin: EdgeInsets.only(left: 50, right: 50),  alignment: Alignment.center,  child: LinearPercentIndicator(  //leaner progress bar  animation: true,  animationDuration: 1000,  lineHeight: 12.0,  percent: c11,  linearStrokeCap: LinearStrokeCap.roundAll,  progressColor: Color.fromRGBO(  113,  219,  219,  1,  ),  backgroundColor: Colors.grey[300],  ),  ),  SizedBox(height: 10),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(  width: 30,  ),  Icon(Icons.circle, color: Color.fromRGBO(0, 110, 148, 1)),  Text('교양선택',  style: TextStyle(  fontSize: 20,  ))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 50),  Text('$c2',  style: TextStyle(  fontSize: 36, fontWeight: FontWeight.bold)),  Text('/12',  style: TextStyle(  fontSize: 20, fontWeight: FontWeight.bold)),  SizedBox(width: 140),  if (c2 >= 12) Icon(Icons.check\_circle, color: \_color),  if (c2 >= 12)  Text('PASS',  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold,  color: \_color))  ]),  SizedBox(height: 10),  Container(  margin: EdgeInsets.only(left: 50, right: 50),  alignment: Alignment.center,  child: LinearPercentIndicator(  //leaner progress bar  animation: true,  animationDuration: 1000,  lineHeight: 12.0,  percent: c22,  linearStrokeCap: LinearStrokeCap.roundAll,  progressColor: Color.fromRGBO(0, 110, 148, 1),  backgroundColor: Colors.grey[300],  ),  ),  SizedBox(height: 20),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(  width: 30,  ),  Icon(Icons.circle, color: Color.fromRGBO(14, 186, 223, 1)),  Text('기독교과목',  style: TextStyle(  fontSize: 20,  ))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 50),  Text('$c3',  style: TextStyle(  fontSize: 36, fontWeight: FontWeight.bold)),  Text('/4',  style: TextStyle(  fontSize: 20, fontWeight: FontWeight.bold)),  SizedBox(width: 140),  if (c3 >= 4) Icon(Icons.check\_circle, color: \_color),  if (c3 >= 4)  Text('PASS',  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold,  color: \_color))  ]),  SizedBox(height: 10),  Container(  margin: EdgeInsets.only(left: 50, right: 50),  alignment: Alignment.center,  child: LinearPercentIndicator(  //leaner progress bar  animation: true,  animationDuration: 1000,  lineHeight: 12.0,  percent: c33,  linearStrokeCap: LinearStrokeCap.roundAll,  progressColor: Color.fromRGBO(14, 186, 223, 1),  backgroundColor: Colors.grey[300],  ),  ),  SizedBox(height: 20),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  ],  )),  ])));  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  List<Data> getAChartData() {  int l = getCalcAData(a1, a2);  final List<Data> achartData = [  Data('A', a1, Color.fromRGBO(113, 219, 219, 1)),  Data('b', a2, Color.fromRGBO(0, 110, 148, 1)),  Data('d', l, Color.fromRGBO(233, 233, 233, 1)),  ];  return achartData;  }  List<Data> getBChartData() {  int l = getCalcBData(b1, b2, b3);  final List<Data> bchartData = [  Data('A', b1, Color.fromRGBO(113, 219, 219, 1)),  Data('b', b2, Color.fromRGBO(0, 110, 148, 1)),  Data('c', b3, Color.fromRGBO(14, 186, 223, 1)),  Data('d', l, Color.fromRGBO(233, 233, 233, 1)),  ];  return bchartData;  }  List<Data> getCChartData() {  int l = getCalcCData(c1, c2, c3);  final List<Data> cchartData = [  Data('A', c1, Color.fromRGBO(113, 219, 219, 1)),  Data('b', c2, Color.fromRGBO(0, 110, 148, 1)),  Data('c', c3, Color.fromRGBO(14, 186, 223, 1)),  Data('d', l, Color.fromRGBO(233, 233, 233, 1)),  ];  return cchartData;  }  int getCalcAData(int x, int y) {  return 133 - (x + y);  }  int getCalcBData(int x, int y, int z) {  return 99 - (x + y + z);  }  int getCalcCData(int x, int y, int z) {  return 32 - (x + y + z);  }  int getPerAData(int x) {  int k = ((133 - x) / 133 \* 100).round();  return k;  }  int getPerBData(int x) {  int k = ((99 - x) / 99 \* 100).round();  return k;  }  int getPerCData(int x) {  int k = ((32 - x) / 32 \* 100).round();  return k;  }  }  class Data {  Data(this.x, this.y, this.color);  final String x;  final int y;  final Color color;  } |

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| --- |
| excel.dart // 졸업사정표 확인 |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  import 'package:navi/signed/graduate\_essential.dart';  import 'package:navi/signed/class\_essential.dart';  Icon imoji =  Icon(Icons.foggy, size: 70, color: Color(0x006E94).withOpacity(1.0));  Color checColor1 = Colors.black.withOpacity(0.3);  Color checColor2 = Colors.black.withOpacity(0.3);  bool check1 = false;  bool check2 = false;  String success = '불가능';  int totalsemester = 0;  var grad = [3.2, 3.5, 3.7, 3.9, 3.8, 4.1, 3.2, 3.9];  var listen = [12.5, 13.5, 18.5, 16.5, 17.5, 12.5, 13.5, 16.5];  class Excel extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_Excel();  }  class \_Excel extends State<Excel> with SingleTickerProviderStateMixin {  double opacity = 0;  final ruleController = TextEditingController();  String name = nameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  if (first >= 133) {  checkColor1 = Color(0x006E94).withOpacity(1.0);  gcheck1 = true;  }  if (forth >= 4) {  checkColor2 = Color(0x006E94).withOpacity(1.0);  gcheck2 = true;  }  if (fifth >= 60) {  checkColor3 = Color(0x006E94).withOpacity(1.0);  gcheck3 = true;  }  if (sixth >= 18) {  checkColor4 = Color(0x006E94).withOpacity(1.0);  gcheck4 = true;  }  if (seventh >= 12) {  checkColor5 = Color(0x006E94).withOpacity(1.0);  gcheck5 = true;  }  if (eighth >= 12) {  checkColor6 = Color(0x006E94).withOpacity(1.0);  gcheck6 = true;  }  if (gcheck7 == true) {  NocheckColor1 = Color(0x006E94).withOpacity(1.0);  }  if (gcheck8 == true) {  NocheckColor2 = Color(0x006E94).withOpacity(1.0);  }  if (gcheck9 == true) {  NocheckColor3 = Color(0x006E94).withOpacity(1.0);  }  if (gcheck10 == true) {  NocheckColor4 = Color(0x006E94).withOpacity(1.0);  }  if (gcheck11 == true) {  NocheckColor5 = Color(0x006E94).withOpacity(1.0);  }  if (gcheck12 == true) {  NocheckColor6 = Color(0x006E94).withOpacity(1.0);  }  if (gcheck13 == true) {  NocheckColor7 = Color(0x006E94).withOpacity(1.0);  }  if (one >= 16) {  cheColor1 = Color(0x006E94).withOpacity(1.0);  ccheck1 = true;  }  if (two >= 12) {  cheColor2 = Color(0x006E94).withOpacity(1.0);  ccheck2 = true;  }  if (three >= 1) {  cheColor3 = Color(0x006E94).withOpacity(1.0);  ccheck3 = true;  }  if (four >= 1) {  cheColor4 = Color(0x006E94).withOpacity(1.0);  ccheck4 = true;  }  if (five >= 18) {  cheColor5 = Color(0x006E94).withOpacity(1.0);  ccheck5 = true;  }  if (six >= 15) {  cheColor6 = Color(0x006E94).withOpacity(1.0);  ccheck6 = true;  }  if (seven >= 66) {  cheColor7 = Color(0x006E94).withOpacity(1.0);  ccheck7 = true;  }  if (ccheck8 == true) {  NocheColor1 = Color(0x006E94).withOpacity(1.0);  }  if (ccheck9 == true) {  NocheColor2 = Color(0x006E94).withOpacity(1.0);  }  if ((gcheck1 == true) &&  (gcheck2 == true) &&  (gcheck3 == true) &&  (gcheck4 == true) &&  (gcheck5 == true) &&  (gcheck6 == true) &&  (gcheck7 == true) &&  (gcheck8 == true) &&  (gcheck9 == true) &&  (gcheck10 == true) &&  (gcheck11 == true) &&  (gcheck12 == true) &&  (gcheck13 == true)) {  checColor1 = Color(0x006E94).withOpacity(1.0);  check1 = true;  }  if ((ccheck1 == true) &&  (ccheck2 == true) &&  (ccheck3 == true) &&  (ccheck4 == true) &&  (ccheck5 == true) &&  (ccheck6 == true) &&  (ccheck7 == true)) {  checColor2 = Color(0x006E94).withOpacity(1.0);  check2 = true;  }  if ((check1 == true) && (check2 == true)) {  imoji =  Icon(Icons.sunny, size: 70, color: Color(0x006E94).withOpacity(1.0));  possible = true;  success = '가능';  }  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(children: <Widget>[  SizedBox(  height: 10,  ),  Icon(  Icons.task\_alt,  size: 30,  ),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]))),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: SingleChildScrollView(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '졸업 사정표',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  SizedBox(height: 15),  Row(  mainAxisAlignment: MainAxisAlignment.center,  children: <Widget>[  SizedBox(  child: IconButton(onPressed: () {}, icon: imoji),  ),  SizedBox(width: 36),  ]),  SizedBox(height: 40),  SizedBox(  child: Text('$success',  style: TextStyle(  fontSize: 24,  fontWeight: FontWeight.bold,  color: Color(0x006E94).withOpacity(1.0))),  ),  /\*Row(children: <Widget>[  SizedBox(width: 10),  SizedBox(  child: Text('학기별 성적 조회',  style: TextStyle(  fontSize: 14,  color: Colors.black.withOpacity(0.5))))  ]),  SizedBox(  height: 5,  ),  Container(  height: 150,  color: Color(0x71DBDB).withOpacity(0.1),  alignment: Alignment.center,  child: Container(  height: 110,  child: ListView.builder(  itemCount: totalsemester,  scrollDirection: Axis.horizontal,  itemBuilder:(BuildContext context, int index){  return Container(  width: 110,  height: 110,  alignment: Alignment.centerRight,  child: Container(  height: 95,  width: 95,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  boxShadow: [  BoxShadow(  color: Colors.grey.withOpacity(0.6),  offset: Offset(0, 10))  ],  ),  child: Column(  children: <Widget>[  SizedBox(height: 15),  SizedBox(  child: RichText(  text: TextSpan(children: [  TextSpan(  text: '${grad[index]}',  style: TextStyle(  color: Colors.black,  fontSize: 26,  fontWeight: FontWeight.bold)),  TextSpan(  text: '/4.5',  style: TextStyle(  color: Colors.black, fontSize: 12)),  ]))),  SizedBox(  child: Text("${numberfour+(index)~/2}-${index%2+1}학기",  style: TextStyle(  color: Colors.black.withOpacity(0.5))),  ),  SizedBox(  child: RichText(  text: TextSpan(children: [  TextSpan(  text: '${listen[index]}',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 14,  fontWeight: FontWeight.bold)),  TextSpan(  text: '/19.5',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 12)),  ])))  ],  ),  )  );  }  ),  ),),\*/  SizedBox(height: 12),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle, size: 30, color: checColor1),  ),  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/rule/graduate\_essential');  },  child: Text('졸업 필수 요건 ',  style: TextStyle(  fontSize: 20,  color: Colors.black,  )),  ),  ),  SizedBox(  width: 120,  ),  SizedBox(  height: 50,  child: IconButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/rule/graduate\_essential');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 120,  width: 340,  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/rule/graduate\_essential');  },  child: Text(  '졸업학점, 공학인증과 관련된\nBSM, 설계, 종합설계, 수학 등의\n다양한 정보와 '  '현황을 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18)))),  ]),  SizedBox(height: 14),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  SizedBox(height: 12),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle, size: 30, color: checColor2),  ),  ),  SizedBox(  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/rule/class\_essential');  },  child: Text('과목 필수 요건 ',  style: TextStyle(  fontSize: 20,  color: Colors.black,  )),  ),  ),  SizedBox(  width: 120,  ),  SizedBox(  height: 50,  child: IconButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/rule/class\_essential');  },  icon: Icon(Icons.arrow\_forward,  size: 30, color: Colors.black.withOpacity(0.5)),  )),  ]),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 110,  width: 360,  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/rule/class\_essential');  },  child: Text(  '교양필수, 교양선택, 채플,\n전공, 전공기초 등과 관련된\n'  '과목 필수 요건과 현황을 확인할 수 있습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18)))),  ]),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| class\_essential.dart // 과목 필수 요건 |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  import 'package:navi/model/savedata.dart' as sd;  int one = sd.one;  int two = sd.two;  int three = sd.three;  int four = sd.four;  int five = sd.five;  int six = sd.six;  int seven = sd.seven;  Color cheColor1 = Colors.white;  bool ccheck1= false;  Color cheColor2 = Colors.white;  bool ccheck2= false;  Color cheColor3 = Colors.white;  bool ccheck3= false;  Color cheColor4 = Colors.white;  bool ccheck4= false;  Color cheColor5 = Colors.white;  bool ccheck5= false;  Color cheColor6 = Colors.white;  bool ccheck6= false;  Color cheColor7 = Colors.white;  bool ccheck7= false;  Color NocheColor1 = Colors.white;  bool ccheck8= sd.ccheck8;  Color NocheColor2 = Colors.white;  bool ccheck9 = sd.ccheck9;  class C\_Essential extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_C\_Essential();  }  class \_C\_Essential extends State<C\_Essential>  with SingleTickerProviderStateMixin {  double opacity = 0;  final ruleController = TextEditingController();  String name = nameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)  ),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(  children: <Widget>[  SizedBox(  height: 10,  ),  Icon(Icons.task\_alt,size: 30,),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]  )  )  ),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: SingleChildScrollView(  child: Center(  child: Column(children: <Widget>[  SizedBox(  height: 30,  child: Text(  '과목 필수 요건',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  SizedBox(height: 30),  Container(  height: 645,  width: 392,  color: Color(0x0EBADF).withOpacity(1.0),  child:  Row(mainAxisAlignment: MainAxisAlignment.center, children: <  Widget>[  Container(  height: 578,  width: 340,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  ),  child: Column(children: <Widget>[  SizedBox(height: 35),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor1),  )),  SizedBox(width: 12),  SizedBox(  width: 210,  height: 25,  child: Text('교양필수 16',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('16',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$one',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor2),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('교양선택 최소 12',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('12',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$two',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor3),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('20-교선 공동체/리더십 1과목',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('1',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$three',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor4),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('20-교선 의사소통/글로벌 1과목',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('1',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$four',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: NocheColor1),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('20-교선 창의융합 2개 영역',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor5),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('전기-소프트 18',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('18',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$five',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor6),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('전필-소프트 15',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('15',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$six',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor6),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('전공-소프트 66',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('66',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$seven',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: NocheColor2),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('채플 6회(편입 2회)',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  ]),  SizedBox(height: 30),  Container(  width: 340,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 22),  Row(children: <Widget>[  SizedBox(width: 26),  SizedBox(  child: RichText(  text: TextSpan(children: [  TextSpan(  text: 'IT대학 소프트웨어학부',  style:  TextStyle(fontSize: 18, color: Colors.black)),  TextSpan(  text: '\n\n$numberfour년도 입학\n$grade학년 $semester학기',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5))),  ]))),  ]),  ]),  )  ]))  ]  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| graduate\_essential.dart // 과목 필수 요건 화면 |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  import 'package:navi/model/savedata.dart' as sd;  int one = sd.one;  int two = sd.two;  int three = sd.three;  int four = sd.four;  int five = sd.five;  int six = sd.six;  int seven = sd.seven;  Color cheColor1 = Colors.white;  bool ccheck1= false;  Color cheColor2 = Colors.white;  bool ccheck2= false;  Color cheColor3 = Colors.white;  bool ccheck3= false;  Color cheColor4 = Colors.white;  bool ccheck4= false;  Color cheColor5 = Colors.white;  bool ccheck5= false;  Color cheColor6 = Colors.white;  bool ccheck6= false;  Color cheColor7 = Colors.white;  bool ccheck7= false;  Color NocheColor1 = Colors.white;  bool ccheck8= sd.ccheck8;  Color NocheColor2 = Colors.white;  bool ccheck9 = sd.ccheck9;  class C\_Essential extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_C\_Essential();  }  class \_C\_Essential extends State<C\_Essential>  with SingleTickerProviderStateMixin {  double opacity = 0;  final ruleController = TextEditingController();  String name = nameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)  ),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(  children: <Widget>[  SizedBox(  height: 10,  ),  Icon(Icons.task\_alt,size: 30,),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]  )  )  ),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: SingleChildScrollView(  child: Center(  child: Column(children: <Widget>[  SizedBox(  height: 30,  child: Text(  '과목 필수 요건',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  SizedBox(height: 30),  Container(  height: 645,  width: 392,  color: Color(0x0EBADF).withOpacity(1.0),  child:  Row(mainAxisAlignment: MainAxisAlignment.center, children: <  Widget>[  Container(  height: 578,  width: 340,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  ),  child: Column(children: <Widget>[  SizedBox(height: 35),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor1),  )),  SizedBox(width: 12),  SizedBox(  width: 210,  height: 25,  child: Text('교양필수 16',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('16',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$one',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor2),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('교양선택 최소 12',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('12',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$two',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor3),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('20-교선 공동체/리더십 1과목',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('1',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$three',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor4),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('20-교선 의사소통/글로벌 1과목',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('1',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$four',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: NocheColor1),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('20-교선 창의융합 2개 영역',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor5),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('전기-소프트 18',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('18',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$five',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor6),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('전필-소프트 15',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('15',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$six',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: cheColor6),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('전공-소프트 66',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  SizedBox(  height: 20,  width: 28,  child: Text('66',  style: TextStyle(  fontSize: 16,  color: Colors.black,  ))),  SizedBox(width: 10),  SizedBox(  height: 20,  width: 28,  child: Text('$seven',  style: TextStyle(  fontSize: 16,  color: Color(0x006E94).withOpacity(1.0))))  ]),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 12),  SizedBox(  height: 30,  width: 20,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.check\_circle,  size: 18,  color: NocheColor2),  )),  SizedBox(width: 15),  SizedBox(  width: 210,  height: 25,  child: Text('채플 6회(편입 2회)',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5)))),  ]),  SizedBox(height: 30),  Container(  width: 340,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 22),  Row(children: <Widget>[  SizedBox(width: 26),  SizedBox(  child: RichText(  text: TextSpan(children: [  TextSpan(  text: 'IT대학 소프트웨어학부',  style:  TextStyle(fontSize: 18, color: Colors.black)),  TextSpan(  text: '\n\n$numberfour년도 입학\n$grade학년 $semester학기',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5))),  ]))),  ]),  ]),  )  ]))  ]  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| firstback.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  class FirstBack extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_FirstBack();  }  class \_FirstBack extends State<FirstBack> with SingleTickerProviderStateMixin {  double opacity = 0;  String name = nameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)  ),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(  children: <Widget>[  SizedBox(  height: 10,  ),  Icon(Icons.task\_alt,size: 30,),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]  )  )  ),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '선후수 과목 확인',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  fontWeight: FontWeight.bold,  ),  )),  SizedBox(  height: 500,  width: 500,  child: Image.asset('image/firstback.jpg')),  SizedBox(  child: Container(  alignment: Alignment(1.0, -0.3),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback/course');  },  child: Text("이수 가능 과목 확인하기",  style: TextStyle(  color: Colors.grey.withOpacity(0.8),  fontSize: 18,  fontWeight: FontWeight.bold,  ),  )  ),  ),  ),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| mypage.dart // 마이페이지 화면 |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  import 'package:navi/model/savedata.dart' as sd;  class MyPage extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_MyPage();  }  class \_MyPage extends State<MyPage> with SingleTickerProviderStateMixin {  double opacity = 0;  String name = nameController.text;  bool ing = sd.ing;  Icon ingicon = Icon(Icons.check\_circle,  size: 28, color: Colors.black);  Icon \_icon = Icon(Icons.cancel,  size: 28, color: Colors.black);  String possiblestr = '불가능';  String ingstr = '재학중';  double result = sd.result;  Color \_color = Colors.blue;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  if(ing == false) {  ingicon = Icon(Icons.cancel,  size: 28, color: Colors.black);  ingstr = '휴학중';  }  if(possible == true){  \_icon = Icon(Icons.check\_circle,  size: 28, color: Colors.black);  possiblestr = '가능';  }  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  actions: [  SizedBox(  width: 30,  height: 30  )  ],  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '마이페이지',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  Row(children: <Widget>[  SizedBox(  height: 100,  width: 130,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.account\_circle,  size: 70, color: Color(0xff0EBADF)),  )),  Column(children: <Widget>[  Row(children: <Widget>[  SizedBox(  width: 165,  child: Text(  name,  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )),  ]),  Row(children: <Widget>[  SizedBox(child: Text('$number / 소프트웨어학부'))  ])  ])  ]),  Container(  height: 128,  width: 363,  color: Color(0x71DBDB).withOpacity(0.1),  child: Row(children: <Widget>[  Container(height: 128, width: 20),  Container(  height: 95,  width: 95,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  boxShadow: [  BoxShadow(  color: Colors.grey.withOpacity(0.6),  offset: Offset(0, 10))  ],  ),  child: Column(  children: <Widget>[  SizedBox(  child: IconButton(  onPressed: () {},  icon: ingicon)),  SizedBox(  child: Text("$grade학년 $semester학기",  style: TextStyle(  color: Colors.black.withOpacity(0.5))),  ),  SizedBox(  child: Text(ingstr,  style: TextStyle(  color: Colors.black.withOpacity(0.5)))),  ],  ),  ),  Container(height: 128, width: 20),  Container(  height: 95,  width: 95,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  boxShadow: [  BoxShadow(  color: Colors.grey.withOpacity(0.6),  offset: Offset(0, 10))  ],  ),  child: Column(  children: <Widget>[  SizedBox(  child: IconButton(  onPressed: () {},  icon: \_icon)),  SizedBox(  child: Text("졸업",  style: TextStyle(  color: Colors.black.withOpacity(0.5)))),  SizedBox(  child: Text(possiblestr,  style: TextStyle(  color: Colors.black.withOpacity(0.5)))),  ],  ),  ),  Container(height: 128, width: 20),  Container(  height: 95,  width: 95,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  boxShadow: [  BoxShadow(  color: Colors.grey.withOpacity(0.6),  offset: Offset(0, 10))  ],  ),  child: Column(  children: <Widget>[  SizedBox(height: 15),  SizedBox(  child: Text("$result",  style: TextStyle(  fontSize: 24,  fontWeight: FontWeight.bold))),  SizedBox(  child:  Text("/4.5", style: TextStyle(fontSize: 10))),  SizedBox(  child: Text("졸업 성적",  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 14,  ))),  ],  ),  ),  ])),  SizedBox(height: 20),  Row(children: <Widget>[  SizedBox(  width: 20,  ),  SizedBox(  height: 20,  width: 100,  child: Text(  '계정',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 14,  ),  ))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)  ),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage/nickname');  },  child: Text(  '닉네임 설정',  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)  ),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(  children: <Widget>[  SizedBox(  height: 10,  ),  Icon(Icons.task\_alt,size: 30,),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]  )  )  ),  );  },  );  },  child: Text(  '로그아웃',  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )  )),  ]),  SizedBox(  height: 50,  ),  Row(children: <Widget>[  SizedBox(  width: 20,  ),  SizedBox(  height: 20,  width: 100,  child: Text(  '이용 안내',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 14,  ),  ))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)  ),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage/ask');  },  child: Text(  '1:1 문의',  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage/notice');  },  child: Text(  '공지사항',  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )  )),  ]),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| nickname.dart // 닉네임 설정 |
| import 'dart:async';  import 'package:flutter/material.dart';  final nameController = TextEditingController();  class Nickname extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_Nickname();  }  class \_Nickname extends State<Nickname> with SingleTickerProviderStateMixin {  double opacity = 0;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  actions: [  SizedBox(  width: 30,  height: 30  )  ],  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '닉네임 설정',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  SizedBox(  height: 15,  ),  Row(  children: <Widget>[  SizedBox(  width: 40,  ),  Text(  '닉네임 입력',  style: TextStyle(  color: Colors.black,  fontSize: 14,  fontWeight: FontWeight.bold,  )  )  ]  ),  SizedBox(  height: 5,  ),  SizedBox(  height: 50,  width: 350,  child: TextField(  controller: nameController,  maxLines: 1,  decoration: InputDecoration(  border: OutlineInputBorder(),  fillColor: Color.fromRGBO(233, 233, 233, 1),  icon: Padding(  padding: EdgeInsets.only(right: 0),  )),  ),  ),  Row(  children: <Widget>[  SizedBox(  width: 40,  ),  Icon(  Icons.block,  size: 12  ),  Text(  '특수문자, 띄어쓰기는 사용할 수 없습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 12,  )  )  ]  ),  Container(  height: 50,  alignment: Alignment(0.2,0.0),  child: ElevatedButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign');  },  child: Text('설정',  style: TextStyle(fontSize: 16)),  style: ButtonStyle(  backgroundColor: MaterialStateProperty.all(  Color.fromRGBO(14, 186, 223, 1)),  fixedSize: MaterialStateProperty.all(  Size.fromWidth(330)))),  )  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| rule.dart // 공지사항 화면 |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  class Rule extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_Rule();  }  class \_Rule extends State<Rule> with SingleTickerProviderStateMixin {  double opacity = 0;  final ruleController = TextEditingController();  String name = nameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)  ),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(  children: <Widget>[  SizedBox(  height: 10,  ),  Icon(Icons.task\_alt,size: 30,),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]  )  )  ),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '졸업 관련 교칙 확인',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q1');  },  child: Text(  'Q1. 재수강은 과목 이름만 같으면 되나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q2');  },  child: Text(  'Q2. 졸업 예정자란?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q3');  },  child: Text(  'Q3. 이수 구분 변경 신청 기간이란?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q4');  },  child: Text(  'Q4. 다전공 포기 신청 기간이란?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q5');  },  child: Text(  'Q5. 졸업 확정 신고 기간은 어떻게 되나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q6');  },  child: Text(  'Q6. 학위수여식은 어떻게 되나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q7');  },  child: Text(  'Q7. 수료의 경우, 따로 신청을 해야하나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q8');  },  child: Text(  'Q8. 이수구분변경 신청의 경우, 어떻게 신청을 하나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| select\_course.dart //선수후수과목 화면 |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/signed/nickname.dart';  import 'package:navi/first/mainscreen.dart';  class Course extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_Course();  }  class \_Course extends State<Course> with SingleTickerProviderStateMixin {  double opacity = 0;  final ruleController = TextEditingController();  String name = nameController.text;  //확인할 과목 리스트  List todos = ['서울', '인천', '수원', '대전', '대구', '광주', '부산'];  // list 데이터에 선수 과목에 대한 데이터를 넣고 todos 과목의 순서에 맞게 based\_object를 입력하면 됨.  List based\_object = [['1', '2'],['3', '4', '5'],['6', '7', '8', '9'],['10', '11'],['12', '13', '14'],['15', '16', '17'],['18', '19', '20']];  List complete\_object = [['1'],['3', '4', '5'],['6', '8', '9'],['10', '11'],['12', '13', '14'],['15', '16', '17'],['18', '19', '20']];  Icon A\_complete = Icon(  Icons.check\_circle,  color: Color.fromRGBO(14, 186, 223, 1),  );  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  backgroundColor: Color.fromRGBO(14, 186, 223, 1),  appBar: AppBar(  title: Text('후수과목 이수가 확인', style: TextStyle(color: Colors.black.withOpacity(0.5), fontWeight: FontWeight.bold)),  centerTitle: true,  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage/nickname');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('$number / 소프트웨어학부 ',  style: TextStyle(  fontSize: 14,  )),  ),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/check');  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/firstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/mypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 3), () {  Navigator.of(context).pushNamed('/login');  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)  ),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(  children: <Widget>[  SizedBox(  height: 10,  ),  Icon(Icons.task\_alt,size: 30,),  Text('로그아웃 완료',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Text('감사합니다',  style: TextStyle(  fontSize: 16,  color: Colors.black.withOpacity(0.5),  )),  ]  )  )  ),  );  },  );  },  child: Text('로그아웃 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: ListView.builder(  itemCount: todos.length,  itemBuilder: (context, index){  // based\_가 이수해야될 과목, complete\_가 이수한 과목  // 수강할 수 있는지는 based\_랑 complete\_의 길이로 판단.  if (based\_object[index].length == complete\_object[index].length){  A\_complete = Icon(  Icons.check\_circle,  color: Color.fromRGBO(14, 186, 223, 1),  );}  else  A\_complete = Icon(  Icons.check\_circle,  color: Colors.grey  );  return Card(  elevation: 4,  margin: EdgeInsets.fromLTRB(15, 10, 15, 10),  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(10),  //side: BorderSide(width: 1.0) 원 테두리  ),  child: Column(  children: [  ExpansionTile(  key: PageStorageKey(todos[index]),  backgroundColor: Colors.white,  title: Text(todos[index],  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  color: Colors.black  ),  ),  leading: A\_complete,  children: <Widget>[  Column(  children: [  for (String set\_key in based\_object[index])  Column(  children: <Widget>[  Divider(  height: 5,  color: Colors.black.withOpacity(1),  ),  //Divider 안보이게 하려면 여기에 삽입  //for (String set\_key in based\_object[index])  Row(  children: [  SizedBox(  width: 17,  ),  if (complete\_object[index].contains(set\_key))//complete == false)  Icon(  Icons.check\_circle,  color: Color.fromRGBO(0, 110, 148, 1),  )  else  Icon(  Icons.check\_circle,  color: Colors.grey,  ),  SizedBox(  width: 12,  ),  SizedBox(  child: Text(set\_key,  style: TextStyle(  fontSize: 16,  fontWeight: FontWeight.bold  ),  ),  )  ],  )  ],  )  ],  )  ],  ),  ],  ),  );  },  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

1-5) 로그인 하지 않았을 경우 기능 구현

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| uncheck.dart |
| import 'package:flutter/material.dart';  import 'package:navi/unsigned/unnickname.dart';  class unCheck extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_unCheck();  }  class \_unCheck extends State<unCheck> with SingleTickerProviderStateMixin {  double opacity = 0;  Color \_color = Color.fromRGBO(0, 110, 148, 1);  String name = unnameController.text;  @override  void initState() {  super.initState();  \_color = Color.fromRGBO(0, 110, 148, 1);  }  @override  Widget build(BuildContext context) {  return DefaultTabController(  length: 2,  child: Scaffold(  appBar: AppBar(  bottom: TabBar(  indicatorWeight: 4,  tabs: [  Tab(  child: Text('전체',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ))),  Tab(  child: Text('교양',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ))),  ],  ),  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('상세정보 로그인 필요 ',  style: TextStyle(  fontSize: 14,  color: Colors.black.withOpacity(0.5),  )),  ),  ElevatedButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text('LOG IN', style: TextStyle(fontSize: 16)),  style: ButtonStyle(  backgroundColor: MaterialStateProperty.all(  Color.fromRGBO(14, 186, 223, 1)),  fixedSize: MaterialStateProperty.all(Size.fromWidth(30)))),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: Container(  height: 100,  width: 200,  alignment: Alignment.bottomCenter,  child: Container(  width: 200,  height: 90,  alignment: Alignment.bottomCenter,  child: Column(children: <Widget>[  Icon(  Icons.error,  size: 30,  ),  Text('로그인 필요',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Container(  alignment: Alignment.center,  height: 30,  child: Row(children: <Widget>[  TextButton(  onPressed: () {  Navigator.pop(context);  Navigator.of(context).pushNamed(  '/login/unsign/unnuminput');  },  child: Text('로그인하지 않고 사용',  style: TextStyle(  fontSize: 12,  color: Colors.black  .withOpacity(0.5),  ))),  TextButton(  onPressed: () {  Navigator.pop(context);  },  child: Text('돌아가기',  style: TextStyle(  fontSize: 12,  color: Colors.black  .withOpacity(0.5),  )))  ])),  ]))),  );  },  );  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/unsign/unfirstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unrule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unmypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: TabBarView(children: <Widget>[  Container(  height: 645,  //width: 392,  color: Color(0x0EBADF).withOpacity(1.0),  child: Row(mainAxisAlignment: MainAxisAlignment.center, children: <  Widget>[  Container(  height: 578,  width: 340,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  ),  child: Column(children: <Widget>[  SizedBox(height: 22),  Row(children: <Widget>[  SizedBox(width: 22),  SizedBox(  width: 210,  height: 60,  child: Text('133',  style: TextStyle(  fontSize: 50,  color: Colors.black,  fontWeight: FontWeight.bold))),  ]),  SizedBox(height: 17),  Container(  width: 340,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 22),  SizedBox(child: Text('전공', style: TextStyle(fontSize: 16))),  ]),  SizedBox(height: 15),  Row(  children: <Widget>[  SizedBox(width: 22),  SizedBox(  child: Text('전공기초',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18))),  SizedBox(width: 12),  SizedBox(  child: Text('18', style: TextStyle(fontSize: 18)))  ],  ),  SizedBox(height: 10),  Row(  children: <Widget>[  SizedBox(width: 22),  SizedBox(  child: Text('전공필수',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18))),  SizedBox(width: 12),  SizedBox(  child: Text('15', style: TextStyle(fontSize: 18)))  ],  ),  SizedBox(height: 10),  Row(  children: <Widget>[  SizedBox(width: 22),  SizedBox(  child: Text('전공선택',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18))),  SizedBox(width: 12),  SizedBox(  child: Text('66', style: TextStyle(fontSize: 18)))  ],  ),  SizedBox(height: 20),  Container(  width: 340,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children: <Widget>[  SizedBox(width: 22),  SizedBox(child: Text('교양', style: TextStyle(fontSize: 16))),  ]),  SizedBox(height: 15),  Row(  children: <Widget>[  SizedBox(width: 22),  SizedBox(  child: Text('교양필수',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18))),  SizedBox(width: 12),  SizedBox(  child: Text('16', style: TextStyle(fontSize: 18)))  ],  ),  SizedBox(height: 10),  Row(  children: <Widget>[  SizedBox(width: 22),  SizedBox(  child: Text('교양선택',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18))),  SizedBox(width: 12),  SizedBox(  child: Text('12', style: TextStyle(fontSize: 18)))  ],  ),  SizedBox(height: 10),  Row(  children: <Widget>[  SizedBox(width: 22),  SizedBox(  child: Text('기독교',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 18))),  SizedBox(width: 12),  SizedBox(child: Text('4', style: TextStyle(fontSize: 18)))  ],  ),  SizedBox(height: 20),  Container(  width: 340,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 15),  Row(children: <Widget>[  SizedBox(width: 22),  SizedBox(  child: Text("소프트웨어학부", style: TextStyle(fontSize: 18)))  ]),  ]),  )  ]),  ),  Container(  height: 645,  width: 392,  color: Color(0x0EBADF).withOpacity(1.0),  child: Row(  mainAxisAlignment: MainAxisAlignment.center,  children: <Widget>[  Container(  height: 578,  width: 340,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  ),  child: Column(children: <Widget>[  SizedBox(height: 22),  Row(children: <Widget>[  SizedBox(width: 22),  SizedBox(  width:210,  height:60,  child : Text('32', style:TextStyle(  fontSize: 50,  color : Colors.black,  fontWeight: FontWeight.bold  ))  ),  ]),  SizedBox(height:17),  Container(  width: 340,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children:<Widget>[  SizedBox(width:22),  SizedBox(  child: Text('교양', style: TextStyle(fontSize: 16))  ),]),  SizedBox(height: 15),  Row(children: <Widget>[  SizedBox(width:22),  SizedBox(  child: Text('교양필수',style:TextStyle(  color: Colors.black.withOpacity(0.5),fontSize:18)  )),  SizedBox(width: 12),  SizedBox(  child: Text('16', style:TextStyle(fontSize: 18))  )  ],),  SizedBox(height:10),  Row(children: <Widget>[  SizedBox(width:22),  SizedBox(  child: Text('교양선택',style:TextStyle(  color: Colors.black.withOpacity(0.5),fontSize:18)  )),  SizedBox(width: 12),  SizedBox(  child: Text('12', style:TextStyle(fontSize: 18))  )  ],),  SizedBox(height:10),  Row(children: <Widget>[  SizedBox(width:22),  SizedBox(  child: Text('기독교',style:TextStyle(  color: Colors.black.withOpacity(0.5),fontSize:18)  )),  SizedBox(width: 12),  SizedBox(  child: Text('4', style:TextStyle(fontSize: 18))  )  ],),  SizedBox(height:20),  Container(  width: 340,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 10),  Row(children:<Widget>[  SizedBox(width:22),  SizedBox(  child: Text('교양', style: TextStyle(fontSize: 16))  ),]),  SizedBox(height:15),  Row(children: <Widget>[  SizedBox(width:22),  SizedBox(  child: Text('공동체/리더십 분야',style:TextStyle(  color: Colors.black.withOpacity(0.5),fontSize:18)  )),  SizedBox(width: 12),  SizedBox(  child: Text('1과목', style:TextStyle(fontSize: 18))  )  ],),  SizedBox(height:10),  Row(children: <Widget>[  SizedBox(width:22),  SizedBox(  child: Text('의사소통/글로벌 분야 ',style:TextStyle(  color: Colors.black.withOpacity(0.5),fontSize:18)  )),  SizedBox(width: 12),  SizedBox(  child: Text('1과목', style:TextStyle(fontSize: 18))  )  ],),  SizedBox(height:10),  Row(children: <Widget>[  SizedBox(width:22),  SizedBox(  child: Text('창의융합 영역',style:TextStyle(  color: Colors.black.withOpacity(0.5),fontSize:18)  )),  SizedBox(width: 12),  SizedBox(  child: Text('2과목', style:TextStyle(fontSize: 18))  )  ],),  SizedBox(height:20),  Container(  width: 340,  child: Divider(  color: Colors.black.withOpacity(0.3),  thickness: 1.0)),  SizedBox(height: 15),  Row(children:<Widget>[  SizedBox(width:22),  SizedBox(child:Text("소프트웨어학부",  style:TextStyle(fontSize:18)))  ]),  ]),  )]),  )  ])));  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| unfirstback.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/unsigned/unnickname.dart';  class unFirstBack extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_unFirstBack();  }  class \_unFirstBack extends State<unFirstBack>  with SingleTickerProviderStateMixin {  double opacity = 0;  String name = unnameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('상세정보 로그인 필요 ',  style: TextStyle(  fontSize: 14,  color: Colors.black.withOpacity(0.5),  )),  ),  ElevatedButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text('LOG IN', style: TextStyle(fontSize: 16)),  style: ButtonStyle(  backgroundColor: MaterialStateProperty.all(  Color.fromRGBO(14, 186, 223, 1)),  fixedSize: MaterialStateProperty.all(Size.fromWidth(30)))),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: Container(  height: 100,  width: 200,  alignment: Alignment.bottomCenter,  child: Container(  width: 200,  height: 90,  alignment: Alignment.bottomCenter,  child: Column(children: <Widget>[  Icon(  Icons.error,  size: 30,  ),  Text('로그인 필요',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Container(  alignment: Alignment.center,  height: 30,  child: Row(children: <Widget>[  TextButton(  onPressed: () {  Navigator.pop(context);  Navigator.of(context).pushNamed(  '/login/unsign/unnuminput');  },  child: Text('로그인하지 않고 사용',  style: TextStyle(  fontSize: 12,  color: Colors.black  .withOpacity(0.5),  ))),  TextButton(  onPressed: () {  Navigator.pop(context);  },  child: Text('돌아가기',  style: TextStyle(  fontSize: 12,  color: Colors.black  .withOpacity(0.5),  )))  ])),  ]))),  );  },  );  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/unsign/unfirstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unrule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unmypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '선후수 과목 확인',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  fontWeight: FontWeight.bold,  ),  )),  SizedBox(  height: 500,  width: 500,  child: Image.asset('image/firstback.jpg')),  SizedBox(  child: Container(  alignment: Alignment(1.0, 0.0),  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  Future.delayed(Duration(seconds: 2), () {  Navigator.pop(context);  });  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)  ),  content: SizedBox(  height: 100,  child: Container(  width: 100,  height: 100,  alignment: Alignment.center,  child: Column(  children: <Widget>[  SizedBox(  height: 20,  ),  Icon(Icons.error,size: 30,),  Text('로그인 필요',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  ]  )  )  ),  );  },  );  },  child: Text(  "이수 가능 과목 확인하기",  style: TextStyle(  color: Colors.grey.withOpacity(0.8),  fontSize: 18,  fontWeight: FontWeight.bold,  ),  )),  ),  ),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| unmypage.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/unsigned/unnickname.dart';  class unMyPage extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_unMyPage();  }  class \_unMyPage extends State<unMyPage> with SingleTickerProviderStateMixin {  double opacity = 0;  String name = unnameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  actions: [  SizedBox(  width: 30,  height: 30  )  ],  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '마이페이지',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  Row(children: <Widget>[  SizedBox(  height: 100,  width: 130,  child: IconButton(  onPressed: () {},  icon: Icon(Icons.account\_circle,  size: 70, color: Color(0xff0EBADF)),  )),  Column(children: <Widget>[  Row(children: <Widget>[  SizedBox(  width: 165,  child: Text(  name,  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )),  ]),  Row(children: <Widget>[  SizedBox(child: Text('상세정보 로그인 필요')),  SizedBox(width: 40)  ])  ])  ]),  Container(  height: 128,  width: 363,  color: Color(0x71DBDB).withOpacity(0.1),  child: Row(children: <Widget>[  Container(height: 128, width: 20),  Container(  height: 95,  width: 95,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  boxShadow: [  BoxShadow(  color: Colors.grey.withOpacity(0.6),  offset: Offset(0, 10))  ],  ),  child: Column(  children: <Widget>[  SizedBox(  child: IconButton(  onPressed: () {},  icon: Icon(Icons.error,  size: 28, color: Colors.black))),  SizedBox(  child: Text("로그인 필요",  style: TextStyle(  color: Colors.black.withOpacity(0.5))),  ),  ],  ),  ),  Container(height: 128, width: 20),  Container(  height: 95,  width: 95,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  boxShadow: [  BoxShadow(  color: Colors.grey.withOpacity(0.6),  offset: Offset(0, 10))  ],  ),  child: Column(  children: <Widget>[  SizedBox(  child: IconButton(  onPressed: () {},  icon: Icon(Icons.error,  size: 28, color: Colors.black))),  SizedBox(  child: Text("로그인 필요",  style: TextStyle(  color: Colors.black.withOpacity(0.5)))),  ],  ),  ),  Container(height: 128, width: 20),  Container(  height: 95,  width: 95,  decoration: BoxDecoration(  color: Colors.white,  borderRadius: BorderRadius.circular(15),  boxShadow: [  BoxShadow(  color: Colors.grey.withOpacity(0.6),  offset: Offset(0, 10))  ],  ),  child: Column(  children: <Widget>[  SizedBox(  child: IconButton(  onPressed: () {},  icon: Icon(Icons.error,  size: 28, color: Colors.black))),  SizedBox(  child: Text("로그인 필요",  style: TextStyle(  color: Colors.black.withOpacity(0.5)))),  ],  ),  ),  ])),  SizedBox(height: 20),  Row(children: <Widget>[  SizedBox(  width: 20,  ),  SizedBox(  height: 20,  width: 100,  child: Text(  '계정',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 14,  ),  ))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)  ),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unmypage/unnickname');  },  child: Text(  '닉네임 설정',  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text(  '로그인',  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )  )),  ]),  SizedBox(  height: 50,  ),  Row(children: <Widget>[  SizedBox(  width: 20,  ),  SizedBox(  height: 20,  width: 100,  child: Text(  '이용 안내',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 14,  ),  ))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)  ),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unmypage/ask');  },  child: Text(  '1:1 문의',  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )  )),  ]),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unmypage/unnotice');  },  child: Text(  '공지사항',  style: TextStyle(  color: Colors.black,  fontSize: 16,  fontWeight: FontWeight.bold,  ),  )  )),  ]),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| unnickname.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  final unnameController = TextEditingController();  class unNickname extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_unNickname();  }  class \_unNickname extends State<unNickname> with SingleTickerProviderStateMixin {  double opacity = 0;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  actions: [  SizedBox(  width: 30,  height: 30  )  ],  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '닉네임 설정',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  SizedBox(  height: 15,  ),  Row(  children: <Widget>[  SizedBox(  width: 40,  ),  Text(  '닉네임 입력',  style: TextStyle(  color: Colors.black,  fontSize: 14,  fontWeight: FontWeight.bold,  )  )  ]  ),  SizedBox(  height: 5,  ),  SizedBox(  height: 50,  width: 350,  child: TextField(  controller: unnameController,  maxLines: 1,  decoration: InputDecoration(  border: OutlineInputBorder(),  fillColor: Color.fromRGBO(233, 233, 233, 1),  icon: Padding(  padding: EdgeInsets.only(right: 0),  )),  ),  ),  Row(  children: <Widget>[  SizedBox(  width: 40,  ),  Icon(  Icons.block,  size: 12  ),  Text(  '특수문자, 띄어쓰기는 사용할 수 없습니다.',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 12,  )  )  ]  ),  Container(  height: 50,  alignment: Alignment(0.2,0.0),  child: ElevatedButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign');  },  child: Text('설정',  style: TextStyle(fontSize: 16)),  style: ButtonStyle(  backgroundColor: MaterialStateProperty.all(  Color.fromRGBO(14, 186, 223, 1)),  fixedSize: MaterialStateProperty.all(  Size.fromWidth(330)))),  )  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| unrule.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'package:navi/unsigned/unnickname.dart';  class unRule extends StatefulWidget {  @override  State<StatefulWidget> createState() => \_unRule();  }  class \_unRule extends State<unRule> with SingleTickerProviderStateMixin {  double opacity = 0;  final ruleController = TextEditingController();  String name = unnameController.text;  @override  void initState() {  super.initState();  Timer(Duration(seconds: 2), () {  setState(() {  opacity = 1;  });  });  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(  leading: IconButton(  onPressed: () {  Navigator.of(context).pop();  },  icon: Icon(Icons.arrow\_back\_ios),  ),  backgroundColor: Colors.white,  iconTheme: IconThemeData(  color: Colors.black.withOpacity(0.5),  size: 30,  ),  elevation: 0.0,  ),  endDrawer: Drawer(  child: ListView(  padding: EdgeInsets.zero,  children: <Widget>[  Container(  height: 100,  alignment: Alignment(0.1, 0.7),  child: Text('졸업까지 달려보슝',  style: TextStyle(  color: Color.fromRGBO(14, 186, 223, 1),  fontSize: 20,  fontWeight: FontWeight.bold,  ))),  Container(  height: 40,  alignment: Alignment(0.9, 0.0),  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text(name,  style: TextStyle(  decoration: TextDecoration.underline,  fontSize: 18,  fontWeight: FontWeight.bold,  color: Colors.black,  )),  )),  Container(  height: 30,  alignment: Alignment(0.9, 0.0),  child: Text('상세정보 로그인 필요 ',  style: TextStyle(  fontSize: 14,  color: Colors.black.withOpacity(0.5),  )),  ),  ElevatedButton(  onPressed: () {  Navigator.of(context).pushNamed('/login');  },  child: Text('LOG IN', style: TextStyle(fontSize: 16)),  style: ButtonStyle(  backgroundColor: MaterialStateProperty.all(  Color.fromRGBO(14, 186, 223, 1)),  fixedSize: MaterialStateProperty.all(Size.fromWidth(30)))),  SizedBox(height: 30),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  showDialog(  context: context,  builder: (BuildContext context) {  return AlertDialog(  shape: RoundedRectangleBorder(  borderRadius: BorderRadius.circular(8.0)),  content: Container(  height: 100,  width: 200,  alignment: Alignment.bottomCenter,  child: Container(  width: 200,  height: 90,  alignment: Alignment.bottomCenter,  child: Column(children: <Widget>[  Icon(  Icons.error,  size: 30,  ),  Text('로그인 필요',  style: TextStyle(  fontSize: 20,  fontWeight: FontWeight.bold,  )),  Container(  alignment: Alignment.center,  height: 30,  child: Row(children: <Widget>[  TextButton(  onPressed: () {  Navigator.pop(context);  Navigator.of(context).pushNamed(  '/login/unsign/unnuminput');  },  child: Text('로그인하지 않고 사용',  style: TextStyle(  fontSize: 12,  color: Colors.black  .withOpacity(0.5),  ))),  TextButton(  onPressed: () {  Navigator.pop(context);  },  child: Text('돌아가기',  style: TextStyle(  fontSize: 12,  color: Colors.black  .withOpacity(0.5),  )))  ])),  ]))),  );  },  );  },  child: Text('이수 학점 현황 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context)  .pushNamed('/login/unsign/unfirstback');  },  child: Text('선후수과목 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/checklist');  },  child: Text('졸업 요건 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unrule');  },  child: Text('졸업 관련 교칙 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  SizedBox(  height: 100,  ),  Container(  height: 35,  alignment: Alignment.centerRight,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/unsign/unmypage');  },  child: Text('마이페이지 ',  style: TextStyle(  color: Colors.black,  fontSize: 14,  ))),  ),  ],  ),  ),  body: Container(  child: Center(  child: Column(  children: <Widget>[  SizedBox(  height: 30,  child: Text(  '졸업 관련 교칙 확인',  style: TextStyle(  color: Colors.black.withOpacity(0.5),  fontSize: 20,  ),  )),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q1');  },  child: Text(  'Q1. 재수강은 과목 이름만 같으면 되나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q2');  },  child: Text(  'Q2. 졸업 예정자란?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q3');  },  child: Text(  'Q3. 이수 구분 변경 신청 기간이란?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q4');  },  child: Text(  'Q4. 다전공 포기 신청 기간이란?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q5');  },  child: Text(  'Q5. 졸업 확정 신고 기간은 어떻게 되나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q6');  },  child: Text(  'Q6. 학위수여식은 어떻게 되나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q7');  },  child: Text(  'Q7. 수료의 경우, 따로 신청을 해야하나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  Row(children: <Widget>[  SizedBox(  width: 10,  ),  SizedBox(  height: 50,  child: TextButton(  onPressed: () {  Navigator.of(context).pushNamed('/login/sign/rule/Q8');  },  child: Text(  'Q8. 이수구분변경 신청의 경우, 어떻게 신청을 하나요?',  style: TextStyle(  color: Colors.black,  fontWeight: FontWeight.bold,  fontSize: 16,  ),  )))  ]),  Container(  width: 500,  child: Divider(  color: Colors.black.withOpacity(0.3), thickness: 1.0)),  ],  //mainAxisAlignment: MainAxisAlignment.center,  ),  ),  ),  );  }  void makeDialog(String text) {  showDialog(  context: context,  builder: (context) {  return AlertDialog(  content: Text(text),  );  });  }  } |

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| main.dart |
| import 'package:flutter/material.dart';  import 'first/login.dart';  import 'loadpage.dart';  import 'first/mainscreen.dart';  import 'first/unmainscreen.dart';  import 'common/notice.dart';  import 'signed/rule.dart';  import 'common/Q1.dart';  import 'common/Q2.dart';  import 'common/Q3.dart';  import 'common/Q4.dart';  import 'common/Q5.dart';  import 'common/Q6.dart';  import 'common/Q7.dart';  import 'common/Q8.dart';  import 'signed/mypage.dart';  import 'unsigned/unmypage.dart';  import 'signed/nickname.dart';  import 'common/ask.dart';  import 'signed/check.dart';  import 'signed/firstback.dart';  import 'unsigned/unnickname.dart';  import 'unsigned/unfirstback.dart';  import 'unsigned/unrule.dart';  import 'unsigned/uncheck.dart';  import 'common/checklist.dart';  import 'signed/excel.dart';  import 'signed/graduate\_essential.dart';  import 'signed/class\_essential.dart';  import 'signed/select\_course.dart';  import 'model/savedata.dart';  void main() {  WidgetsFlutterBinding.ensureInitialized();  runApp(MyApp());  }  class MyApp extends StatelessWidget {  @override  Widget build(BuildContext context) {  return MaterialApp(  title: '졸업까지 달려보슝',  theme: ThemeData(  elevatedButtonTheme: ElevatedButtonThemeData(  style: ElevatedButton.styleFrom(  primary: Colors.white,  ),  )),  initialRoute: '/',  routes: {  '/': (context) => HomePage(),  '/login': (context) => LoginPage(),  '/login/save': (context) => savedata(),  '/login/sign': (context) => MainScreen(),  '/login/sign/check': (context) => Check(),  '/login/sign/firstback': (context) => FirstBack(),  '/login/sign/firstback/course': (context) => Course(),  '/login/sign/checklist': (context) => CheckList(),  '/login/sign/rule': (context) => Rule(),  '/login/sign/rule/Q1': (context) => Q1(),  '/login/sign/rule/Q2': (context) => Q2(),  '/login/sign/rule/Q3': (context) => Q3(),  '/login/sign/rule/Q4': (context) => Q4(),  '/login/sign/rule/Q5': (context) => Q5(),  '/login/sign/rule/Q6': (context) => Q6(),  '/login/sign/rule/Q7': (context) => Q7(),  '/login/sign/rule/Q8': (context) => Q8(),  '/login/sign/rule/excel': (context) => Excel(),  '/login/sign/rule/graduate\_essential': (context) => G\_Essential(),  '/login/sign/rule/class\_essential': (context) => C\_Essential(),  '/login/sign/mypage': (context) => MyPage(),  '/login/sign/mypage/nickname': (context) => Nickname(),  '/login/sign/mypage/notice': (context) => Notice(),  '/login/sign/mypage/ask': (context) => Ask(),  '/login/unsign': (context) => unMainScreen(),  '/login/unsign/uncheck': (context) => unCheck(),  '/login/unsign/unfirstback': (context) => unFirstBack(),  '/login/unsign/checklist': (context) => CheckList(),  '/login/unsign/unrule': (context) => unRule(),  '/login/unsign/unmypage': (context) => unMyPage(),  '/login/unsign/unmypage/unnickname': (context) => unNickname(),  '/login/unsign/unmypage/ask': (context) => Ask(),  '/login/unsign/unmypage/unnotice': (context) => Notice(),  },  );  }  }  class HomePage extends StatelessWidget {  @override  Widget build(BuildContext context) {  return SplashScreen();  }  } |

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| loadpage.dart |
| import 'dart:async';  import 'package:flutter/material.dart';  import 'first/login.dart';  class SplashScreen extends StatefulWidget {  @override  \_SplashScreenState createState() => \_SplashScreenState();  }  class \_SplashScreenState extends State<SplashScreen> {  @override  void initState() {  super.initState();  Timer(  Duration(seconds: 4),  () => Navigator.push(  context,  MaterialPageRoute(builder: (context) => LoginPage()),  ),  );  }  @override  Widget build(BuildContext context) {  double width = MediaQuery.of(context).size.width;  double height = MediaQuery.of(context).size.height;  return Container(  decoration: BoxDecoration(  image: DecorationImage(  image: AssetImage('image/loading.png'), fit: BoxFit.contain),  ),  child: Stack(  children: <Widget>[  Positioned(  top: 0.0,  left: 0.0,  child: Container(  width: width,  height: height,  child: Scaffold(  backgroundColor: Colors.transparent,  body: Padding(  padding: EdgeInsets.all(8.0),  child: Center(),  ),  ),  ),  ),  ],  ),  );  }  } |

2) 크롤링 코드

importos

fromssl importCHANNEL\_BINDING\_TYPES

importtime

fromxmlrpc.client importFastParser

fromselenium importwebdriver

fromselenium.webdriver.common.keys importKeys

fromselenium.webdriver.common.by importBy

fromselenium.webdriver.support.ui importWebDriverWait

fromselenium.webdriver.support importexpected\_conditions asEC

fromselenium.common.exceptions importTimeoutException

def Shutdown(\_time):

os.system("shutdown -s -t "+ str(\_time))

def WaitForClass\_CanBeClicked(driver, delaySec, class\_name):

wait = WebDriverWait(driver, delaySec)

element = wait.until(EC.element\_to\_be\_clickable((By.CLASS\_NAME, class\_name)))

def WaitForClass\_Visible(driver, delaySec, class\_name):

wait = WebDriverWait(driver, delaySec)

wait.until(EC.visibility\_of\_element\_located((By.CLASS\_NAME, class\_name)))

def WaitForID\_Visible(driver, delaySec, id\_name):

wait = WebDriverWait(driver, delaySec)

wait.until(EC.visibility\_of\_element\_located((By.ID, id\_name)))

def WaitForTag\_Visible(driver, delaySec, tag\_name):

wait = WebDriverWait(driver, delaySec)

wait.until(EC.visibility\_of\_element\_located((By.TAG\_NAME, tag\_name)))

def Login(self, driver, id, password):

driver.get('https://saint.ssu.ac.kr/irj/portal')

WaitForClass\_CanBeClicked(driver, 10, "btn\_login")

driver.find\_element\_by\_class\_name('btn\_login').click()

#id = '20201759'

#password = 'dlstod!26'

id= "20201759"

pw = "dlstod!26"

driver.find\_element\_by\_xpath('//\*[@id="userid"]').send\_keys(id)

driver.find\_element\_by\_xpath('//\*[@id="pwd"]').send\_keys(password)

driver.find\_element\_by\_xpath('//\*[@id="sLogin"]/div/div[1]/form/div/div[2]/a').click()

#print("로그인 됨")

def FirstPage(self, driver):

time.sleep(10)

driver.switch\_to.frame('contentAreaFrame')

driver.switch\_to.frame('isolatedWorkArea')

tmp1 = driver.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]')

tmp2 = driver.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]')

tmp3 = driver.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]/div[2]')

tmp4 = driver.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]/div[2]/ul')

FirstPage\_table = []

#학번

studentID\_1 = tmp4.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]/div[2]/ul/li[1]')

studentID\_2 = studentID\_1.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]/div[2]/ul/li[1]/dl/dd/a/strong')

studentID\_f = int(float(studentID\_2.text))

FirstPage\_table.append(studentID\_f)

#학년과 학기

studentGrade\_1 = tmp4.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]/div[2]/ul/li[4]')

studentGrade\_2 = studentGrade\_1.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]/div[2]/ul/li[4]/dl/dd/a/strong')

studentGrade\_3 = studentGrade\_2.text

studentGrade\_4 = studentGrade\_3.split(':')

studentGrade\_5 = studentGrade\_4[0]

studentGrade\_f = studentGrade\_5[0]

FirstPage\_table.append(int(float(studentGrade\_f)))

studentSemester\_1 = studentGrade\_4[1]

studentSemester\_f = studentSemester\_1[0]

FirstPage\_table.append(int(float(studentSemester\_f)))

#재학 중인지

studentEnrolled\_1 = tmp4. find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]/div[2]/ul/li[3]')

studentEnrolled\_2 = studentEnrolled\_1.find\_element\_by\_xpath('/html/body/div/div[1]/div[1]/div[1]/div[2]/ul/li[3]/dl/dd/a/strong')

studentEnrolled\_3 = studentEnrolled\_2.text

studentEnrolled\_f = False

if "재학" instudentEnrolled\_3 :

studentEnrolled\_f = True

else:

studentEnrolled\_f = False

FirstPage\_table.append(studentEnrolled\_f)

#프레임 다시 돌아가기

driver.switch\_to.default\_content()

returnFirstPage\_table

def GradeList(self, driver):

################ 학사관리 페이지로 이동

driver.find\_element\_by\_xpath('//\*[@id="ddba4fb5fbc996006194d3c0c0aea5c4"]/a').click()

################ 성적/졸업 페이지로 이동

driver.find\_element\_by\_xpath('//\*[@id="8d3da4feb86b681d72f267880ae8cef5"]/a').click()

################ 팝업창 제거하기

WaitForClass\_Visible(driver, 10, 'lsBlockLayer')

element = driver.find\_element\_by\_class\_name('lsBlockLayer')

driver.execute\_script("var element = arguments[0]; element.parentNode.removeChild(element);", element)

element = driver.find\_element\_by\_id('URLSPW-0')

driver.execute\_script("var element = arguments[0]; element.parentNode.removeChild(element);", element)

driver.switch\_to.frame('contentAreaFrame')

driver.switch\_to.frame('isolatedWorkArea')

WaitForClass\_Visible(driver, 10, 'urSTSStd') #표 보여질 때까지 기다려

Lists = driver.find\_elements\_by\_class\_name('urSTSStd')

t1 = Lists[0].find\_element\_by\_xpath('//\*[@id="WD38-content"]/table')

#취득학점과 이수학점 구하기

t2 = t1.find\_elements\_by\_tag\_name('tr')

t3 = []

fori in range(0, len(t2), 1):

tmp = t2[i].get\_attribute('class')

if(tmp!=''):

n = int(t2[i].get\_attribute('rr')) #성적이 들어있는 줄만

if(n>0):

t3.append(t2[i])

listenList = []

scoreList = []

fori in range(0, len(t3), 1):

tmp = t3[i].find\_elements\_by\_tag\_name('td') #한 요소씩 넣기

if "여름" not intmp[2].text and "겨울" not intmp[2].text:

listenList.append(float(tmp[4].text))

scoreList.append(float(tmp[6].text))

listenList = list(reversed(listenList))#1학년 1학기부터

scoreList = list(reversed(scoreList))#1학년 1학기부터

GradeList\_table = [] #반환값

GradeList\_table.append(listenList)

GradeList\_table.append(scoreList)

#학적부 평점평균 구하기

tmp1 = driver.find\_element\_by\_xpath('//\*[@id="WD11"]/tbody/tr[6]')

tmp2 = tmp1.find\_element\_by\_xpath('//\*[@id="WD0129"]/tbody/tr[2]')

tmp3 = tmp2.find\_element\_by\_xpath('//\*[@id="WD011A"]')

graduateScore\_1 = tmp3.get\_attribute('lsdata') #인풋데이터라 이렇게 얻어와야함

graduateScore\_2 = graduateScore\_1.split("\'")

graduateScore\_f = float(graduateScore\_2[1])

GradeList\_table.append(graduateScore\_f)

#프레임 다시 돌아가기

driver.switch\_to.default\_content()

returnGradeList\_table

def CheckGrade(self, driver):

################ 졸업사정표 페이지로 이동

driver.find\_element\_by\_xpath('//\*[@id="30f2303171c98bdf57db799d0b834646"]/a/span/em').click()

driver.switch\_to.frame('contentAreaFrame')

driver.switch\_to.frame('isolatedWorkArea')

#print("프레임 바뀜")

time.sleep(7)

table = driver.find\_element\_by\_xpath('/html/body/table')

tr = table.find\_element\_by\_tag\_name('tbody')

tr\_1 = tr.find\_element\_by\_tag\_name('tr')

tr\_2 = tr\_1.find\_element\_by\_tag\_name('td')

tr\_3 = tr\_2.find\_element\_by\_xpath('//\*[@id="sapwd\_main\_window\_root\_"]')

tr\_4 = tr\_3.find\_element\_by\_tag\_name('tbody')

tr\_5 = tr\_4.find\_element\_by\_tag\_name('tr')

tr\_6 = tr\_5.find\_element\_by\_tag\_name('td')

tr\_7 = tr\_6.find\_element\_by\_tag\_name('div')

tr\_8 = tr\_7.find\_element\_by\_tag\_name('table')

tr\_9 = tr\_8.find\_element\_by\_tag\_name('tbody')

tr\_10 = tr\_9.find\_element\_by\_xpath('//\*[@id="WD11"]/tbody/tr[3]')

tr\_11 = tr\_10.find\_element\_by\_xpath('//\*[@id="WD65"]')

tr\_12 = tr\_11.find\_element\_by\_xpath('//\*[@id="WD66"]')

tr\_13 = tr\_12.find\_element\_by\_xpath('//\*[@id="WD66-tbd"]')

tr\_14 = tr\_13.find\_element\_by\_xpath('//\*[@id="WD66-tbd"]/tr')

tr\_15 = tr\_14.find\_element\_by\_xpath('//\*[@id="WD66-tbd"]/tr/td')

tr\_16 = tr\_15.find\_element\_by\_xpath('//\*[@id="WD68-r"]')

tr\_17 = tr\_16.find\_element\_by\_xpath('//\*[@id="WD68"]')

tr\_18 = tr\_17.find\_element\_by\_xpath('//\*[@id="WD68"]/tbody') #졸업사정 결과

grad\_table = tr\_18.find\_element\_by\_xpath('//\*[@id="WD68"]/tbody/tr[2]')

gt1 = grad\_table.find\_element\_by\_xpath('//\*[@id="WD7B"]')

gt2 = gt1.find\_element\_by\_xpath('//\*[@id="WD7C"]')

gt3 = gt2.find\_element\_by\_xpath('//\*[@id="WD7C"]/tbody')

gt4 = gt3.find\_element\_by\_xpath('//\*[@id="WD7C"]/tbody/tr')

gt5 = gt4.find\_element\_by\_xpath('//\*[@id="WD7C-content"]')

gt6 = gt5.find\_element\_by\_xpath('//\*[@id="WD7C-content"]/table')

gt7 = gt6.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]') #표 접근

graduate\_table = []

#졸업사정결과

canGraduate\_1 = tr\_18.find\_element\_by\_xpath('//\*[@id="WD68"]/tbody/tr[1]')

canGraduate\_2 = canGraduate\_1.find\_element\_by\_xpath('//\*[@id="WD6B"]')

canGraduate\_3 = canGraduate\_2.find\_element\_by\_xpath('//\*[@id="WD6C"]')

canGraduate\_4 = canGraduate\_3.find\_element\_by\_xpath('//\*[@id="WD70"]')

canGraduate\_5 = canGraduate\_4.find\_element\_by\_xpath('//\*[@id="WD74"]')

canGraduate\_6 = canGraduate\_5.find\_element\_by\_xpath('//\*[@id="WD75"]')

canGraduate\_7 = canGraduate\_6.get\_attribute('lsdata')

canGraduate\_8 = canGraduate\_7.split("\'")

canGraduate\_f = False

ifcanGraduate\_8[1] == "불가능":

canGraduate\_f = False

else:

canGraduate\_f = True

graduate\_table.append(canGraduate\_f)

#학부졸업학점133

grad133\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[2]') #졸업요건 행 접근

grad133\_2 = grad133\_1.find\_element\_by\_xpath('//\*[@id="WD9B"]')

grad133\_f = float(grad133\_2.text)

graduate\_table.append(grad133\_f)

#print(grad133\_f)

#기독교과목4학점

christ4\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[5]') #기독교학점 행 접근

christ4\_2 = christ4\_1.find\_element\_by\_xpath('//\*[@id="WDBF"]')

christ4\_f = int(float(christ4\_2.text))

graduate\_table.append(christ4\_f)

#print(christ4\_f)

#소프트공인증

softeng60\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[6]') #소프트공

softeng60\_2 = softeng60\_1.find\_element\_by\_xpath('//\*[@id="WDCB"]')

softeng60\_f = int(float(softeng60\_2.text))

graduate\_table.append(softeng60\_f)

#print(softeng60\_f)

#소프트BSM공인증

softbsm18\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[7]') #소프트공BSM

softbsm18\_2 = softbsm18\_1.find\_element\_by\_xpath('//\*[@id="WDD7"]')

softbsm18\_f = int(float(softbsm18\_2.text))

graduate\_table.append(softbsm18\_f)

#print(softbsm18\_f)

#전문교양소프트인증

prosoft12\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[8]') #전문교양소프트인증

prosoft12\_2 = prosoft12\_1.find\_element\_by\_xpath('//\*[@id="WDE3"]')

prosoft12\_f = int(float(prosoft12\_2.text))

graduate\_table.append(prosoft12\_f)

#print(prosoft12\_f)

#설계소프트공인증

archsoft12\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[9]')

archsoft12\_2 = archsoft12\_1.find\_element\_by\_xpath('//\*[@id="WDEF"]')

archsoft12\_f = int(float(archsoft12\_2.text))

graduate\_table.append(archsoft12\_f)

#print(archsoft12\_f)

#편입요이수지정과목

pyeonip\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[3]')

pyeonip\_2 = pyeonip\_1.find\_element\_by\_xpath('//\*[@id="WDAB"]')

pyeonip\_3 = pyeonip\_2.text

pyeonip\_f = False

ifpyeonip\_3 == "충족":

pyeonip\_f = True

else:

pyeonip\_f = False

graduate\_table.append(pyeonip\_f)

#print(pyeonip\_f)

#졸업논문/졸업시험

gradtest\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[4]')

gradtest\_2 = gradtest\_1.find\_element\_by\_xpath('//\*[@id="WDB7"]')

gradtest\_3 = gradtest\_2.text

gradtest\_f = False

ifgradtest\_3 == "충족":

gradtest\_f = True

else:

gradtest\_f = False

graduate\_table.append(gradtest\_f)

#print(gradtest\_f)

#기초과학

elementsci\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[10]')

elementsci\_2 = elementsci\_1.find\_element\_by\_xpath('//\*[@id="WDFF"]')

elementsci\_3 = elementsci\_2.text

elementsci\_f = False

ifelementsci\_3 == "충족":

elementsci\_f = True

else:

elementsci\_f = False

graduate\_table.append(elementsci\_f)

#print(elementsci\_f)

#종합설계

allarch\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[12]')

allarch\_2 = allarch\_1.find\_element\_by\_xpath('//\*[@id="WD0117"]')

allarch\_3 = allarch\_2.text

allarch\_f = False

ifallarch\_3 == "충족":

allarch\_f = True

else:

allarch\_f = False

graduate\_table.append(allarch\_f)

#print(allarch\_f)

#공학설계입문

engarchelem\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[11]')

engarchelem\_2 = engarchelem\_1.find\_element\_by\_xpath('//\*[@id="WD010B"]')

engarchelem\_3 = engarchelem\_2.text

engarchelem\_f = False

ifengarchelem\_3 == "충족":

engarchelem\_f = True

else:

engarchelem\_f = False

graduate\_table.append(engarchelem\_f)

#print(engarchelem\_f)

#수학(소프트공학)

matheng\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[13]')

matheng\_2 = matheng\_1.find\_element\_by\_xpath('//\*[@id="WD0123"]')

matheng\_3 = matheng\_2.text

matheng\_f = False

ifmatheng\_3 == "충족":

matheng\_f = True

else:

matheng\_f = False

graduate\_table.append(matheng\_f)

#print(matheng\_f)

#졸업확정신고여부

gradnotice\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[14]')

gradnotice\_2 = gradnotice\_1.find\_element\_by\_xpath('//\*[@id="WD012F"]')

gradnotice\_3 = gradnotice\_2.text

gradnotice\_f = False

ifgradnotice\_3 == "충족":

gradnotice\_f = True

else:

gradnotice\_f = False

graduate\_table.append(gradnotice\_f)

#print(gradnotice\_f)

#교양필수

libartess\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[15]')

libartess\_2 = libartess\_1.find\_element\_by\_xpath('//\*[@id="WD0138"]')

libartess\_f = int(float(libartess\_2.text))

graduate\_table.append(libartess\_f)

#print(libartess\_f)

#교양선택

libartselect\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[16]')

libartselect\_2 = libartselect\_1.find\_element\_by\_xpath('//\*[@id="WD0145"]')

libartselect\_f = int(float(libartselect\_2.text))

graduate\_table.append(libartselect\_f)

#print(libartselect\_f)

#공동체,리더십

leadership\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[17]')

leadership\_2 = leadership\_1.find\_element\_by\_xpath('//\*[@id="WD0151"]')

leadership\_f = leadership\_2.text

ifleadership\_f == ' ':

leadership\_f = 0

else:

leadership\_f = int(float(leadership\_f))

graduate\_table.append(leadership\_f)

#의사소통글로벌

comglobal\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[18]')

comglobal\_2 = comglobal\_1.find\_element\_by\_xpath('//\*[@id="WD015D"]')

comglobal\_f = int(float(comglobal\_2.text))

graduate\_table.append(comglobal\_f)

#print(comglobal\_f)

#전기소프트

majorelemsoft\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[20]')

majorelemsoft\_2 = majorelemsoft\_1.find\_element\_by\_xpath('//\*[@id="WD0176"]')

majorelemsoft\_f = int(float(majorelemsoft\_2.text))

graduate\_table.append(majorelemsoft\_f)

#print(majorelemsoft\_f)

#전필소프트

majoresssoft\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[21]')

majoresssoft\_2 = majoresssoft\_1.find\_element\_by\_xpath('//\*[@id="WD0183"]')

majoresssoft\_f = int(float(majoresssoft\_2.text))

graduate\_table.append(majoresssoft\_f)

#print(majoresssoft\_f)

#전공소프트

majorsoft\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[22]')

majorsoft\_2 = majorsoft\_1.find\_element\_by\_xpath('//\*[@id="WD018F"]')

majorsoft\_f = int(float(majorsoft\_2.text))

graduate\_table.append(majorsoft\_f)

#print(majorsoft\_f)

#교선창의융합2개

libertyart\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[19]')

libertyart\_2 = libertyart\_1.find\_element\_by\_xpath('//\*[@id="WD016D"]')

libertyart\_3 = libertyart\_2.text

libertyart\_f = False

iflibertyart\_3 == "충족":

libertyart\_f = True

else:

libertyart\_f = False

graduate\_table.append(libertyart\_f)

#print(libertyart\_f)

#채플

chaple\_1 = gt7.find\_element\_by\_xpath('//\*[@id="WD7C-contentTBody"]/tr[23]')

chaple\_2 = chaple\_1.find\_element\_by\_xpath('//\*[@id="WD01A0"]')

chaple\_3 = chaple\_2.text

chaple\_f = False

ifchaple\_3 == "충족":

chaple\_f = True

else:

chaple\_f = False

graduate\_table.append(chaple\_f)

#print(chaple\_f)

returngraduate\_table

def add\_new\_items(c1, c2, c3):

os.environ.setdefault('DJANGO\_SETTINGS\_MODULE',"myapi.settings")

importdjango

django.setup()

fromcrawling\_backend.models importBoardData

BoardData(

#c1 첫 페이지에 구할 수 있는 정보들

studentID= c1[0],

studentGrade= c1[1],

studentSemester= c1[2],

studentEnrolled= c1[3],

#c2 학기별 성적조회 페이지에서 구할 수 있는 정보들

#listenList = c2[0],

#scoreList = c2[1],

graduateScore= c2[2],

#c3 졸업사정표 페이지에서 구할 수 있는 정보들

canGraduate= c3[0],

grad133\_f= c3[1],

christ4\_f= c3[2],

softeng60\_f= c3[3],

softbsm18\_f= c3[4],

prosoft12\_f= c3[5],

archsoft12\_f= c3[6],

pyeonip\_f= c3[7],

gradtest\_f= c3[8],

elementsci\_f= c3[9],

allarch\_f= c3[10],

engarchelem\_f= c3[11],

matheng\_f= c3[12],

gradnotice\_f= c3[13],

libartess\_f= c3[14],

libartselect\_f= c3[15],

leadership\_f= c3[16],

comglobal\_f= c3[17],

majorelemsoft\_f= c3[18],

majoresssoft\_f= c3[19],

majorsoft\_f= c3[20],

libertyart\_f= c3[21],

chaple= c3[22]

).save()

print("추가 완료!")

def mainFunc(self):

options = webdriver.ChromeOptions()

try:

driver = webdriver.Chrome('C:/testserver/crawling\_backend/venv/chromedriver.exe', options=options)

driver.set\_window\_size(1920, 1080)

except:

print("! 크롬 드라이버 로드 실패. 크롬 버전과 호환되는 크롬드라이버가 설치되어 있는지, chromedriver.exe가 폴더 내에 있는지 확인해주세요.")

try:

Login(self, driver, self.id, self.pw)

except:

print("! 로그인에 실패하였습니다")

try:

c1 = FirstPage(self, driver)

c2 = GradeList(self, driver)

c3 = CheckGrade(self, driver)

add\_new\_items(c1, c2, c3)

except Exception ase:

print(f"! 성적 확인 도중 문제가 발생했습니다. {e}")

class Temp():

def \_\_init\_\_(self):

self.isRun = False

self.id = "20201759"

self.pw = "dlstod!26"

def run(self):

mainFunc(self)

tmp = Temp()

tmp.run()

3) 서버 코드 + DB 코드

[admin.py]

from django.contrib import admin

# Register your models here.

from crawling\_backend.models import BoardData

admin.site.register(BoardData)

[runtime.txt]

python-3.9.13

[models.py]

from django.db import models

from django.contrib.postgres.fields import ArrayField

# Create your models here.

#추후에 클래스 이름 변경

class BoardData(models.Model):

#첫 페이지에 구할 수 있는 정보들

studentID= models.IntegerField(null=True, default=0)

studentGrade= models.IntegerField(null=True, default=0)

studentSemester= models.IntegerField(null=True, default=0)

studentEnrolled= models.BooleanField(null=True)

#학기별 성적조회 페이지에서 구할 수 있는 정보들

#리스트 왜 안되니~

#listenList = ArrayField(models.FloatField(max\_length=10, blank = True, default=0.0))

#scoreList = ArrayField(models.FloatField(max\_length=10, blank = True, default=0.0))

graduateScore= models.FloatField(max\_length=10, null=True, default=0.0)

#졸업사정표 페이지에서 구할 수 있는 정보들

canGraduate= models.BooleanField(null=True)

grad133\_f= models.FloatField(max\_length=10, null=True, default=0.0)

christ4\_f= models.IntegerField(null=True, default=0)

softeng60\_f= models.IntegerField(null=True, default=0)

softbsm18\_f= models.IntegerField(null=True, default=0)

prosoft12\_f= models.IntegerField(null=True, default=0)

archsoft12\_f= models.IntegerField(null=True, default=0)

pyeonip\_f= models.BooleanField(null=True)

gradtest\_f= models.BooleanField(null=True)

elementsci\_f= models.BooleanField(null=True)

allarch\_f= models.BooleanField(null=True)

engarchelem\_f= models.BooleanField(null=True)

matheng\_f= models.BooleanField(null=True)

gradnotice\_f= models.BooleanField(null=True)

libartess\_f= models.IntegerField(null=True, default=0)

libartselect\_f= models.IntegerField(null=True, default=0)

leadership\_f= models.IntegerField(null=True, default=0)

comglobal\_f= models.IntegerField(null=True, default=0)

majorelemsoft\_f= models.IntegerField(null=True, default=0)

majoresssoft\_f= models.IntegerField(null=True, default=0)

majorsoft\_f= models.IntegerField(null=True, default=0)

libertyart\_f= models.BooleanField(null=True)

chaple= models.BooleanField(null=True)

[serializers.py]

from rest\_framework import serializers

from.models import BoardData

class BoardDataSerializer(serializers.ModelSerializer):

class Meta:

model= BoardData

fields= (

'studentID','studentGrade', 'studentSemester', 'studentEnrolled'

, 'graduateScore'

, 'canGraduate'

, 'grad133\_f'

, 'christ4\_f', 'softeng60\_f', 'softbsm18\_f', 'prosoft12\_f', 'archsoft12\_f'

, 'pyeonip\_f', 'gradtest\_f', 'elementsci\_f', 'allarch\_f', 'engarchelem\_f', 'matheng\_f', 'gradnotice\_f'

, 'libartess\_f', 'libartselect\_f', 'leadership\_f', 'comglobal\_f', 'majorelemsoft\_f', 'majoresssoft\_f', 'majorsoft\_f'

, 'libertyart\_f', 'chaple'

)

[urls.py]

#직접 제작한 파일임

from django.urls import URLPattern, path, include

from.views import crawledData

urlpatterns= [

path("1/", crawledData),

]

[views.py]

from django.shortcuts import render

from rest\_framework.response import Response

from rest\_framework.decorators import api\_view

# Create your views here.

from.models import BoardData

from.serializers import BoardDataSerializer

@api\_view(['GET'])

def crawledData(request):

totalData= BoardData.objects.filter(studentID\_\_startswith= '20201759')

#사용자 ID인 것만 검색해서 갖고오게 해야함

serializer= BoardDataSerializer(totalData, many= True)

#many=true , 다량의 데이터를 직렬화 해줌

return Response(serializer.data)

[Procfile]

web: gunicorn myapi.wsgi

[manage.py]

#!/usr/bin/env python

"""Django's command-line utility for administrative tasks."""

import os

import sys

def main():

"""Run administrative tasks."""

os.environ.setdefault('DJANGO\_SETTINGS\_MODULE', 'myapi.settings')

try:

from django.core.management import execute\_from\_command\_line

except ImportError as exc:

raise ImportError(

"Couldn't import Django. Are you sure it's installed and "

"available on your PYTHONPATH environment variable? Did you "

"forget to activate a virtual environment?"

) from exc

execute\_from\_command\_line(sys.argv)

if \_\_name\_\_== '\_\_main\_\_':

main()

[requirements.txt]

asgiref==3.5.2

async-generator==1.10

attrs==21.4.0

beautifulsoup4==4.4.1

bs4==0.0.1

certifi==2022.5.18.1

cffi==1.15.0

charset-normalizer==2.0.12

cryptography==37.0.2

dj-database-url==0.5.0

Django==4.0.4

django-cors-headers==3.12.0

djangorestframework==3.13.1

gunicorn==20.1.0

h11==0.13.0

html-table-parser==0.1.0

idna==3.3

outcome==1.1.0

psycopg2-binary==2.9.3

pycparser==2.21

pyOpenSSL==22.0.0

PySocks==1.7.1

pytz==2022.1

requests==2.27.1

selenium==4.2.0

sniffio==1.2.0

sortedcontainers==2.4.0

soupsieve==2.3.2.post1

sqlparse==0.4.2

trio==0.20.0

trio-websocket==0.9.2

tzdata==2022.1

urllib3==1.26.9

whitenoise==6.1.0

wsproto==1.1.0

[savedata.dart]

import 'package:flutter/material.dart';  
import 'package:http/http.dart' as http;  
import 'dart:convert';  
import 'package:navi/model/model\_crawldata.dart';  
import 'package:navi/model/api\_adapter.dart';  
import 'package:navi/signed/check.dart';  
import 'dart:async';  
  
int number = 0; //학번  
int grade = 0; //학년  
int semester = 0; //학기  
bool ing = false; //재학 중인지  
  
double result = 0.0; //졸업 성적(학점)  
  
bool possible = false; //졸업 가능한지  
  
double first = 0.0; //졸업학점133  
int forth = 0; //기독교과목4학점 이상  
int fifth = 0; //주제-소프트공인증60  
int sixth = 0; //BSM-소프트공인증18  
int seventh = 0; //전문교양- 소프트공인증12  
int eighth = 0; //설계-소프트공인증12  
  
bool gcheck7 = false; //편입 요이수 지정과목  
bool gcheck8 = false; //졸업논문/졸업시험 이수  
bool gcheck9 = false; //기초과학(실험)  
bool gcheck10 = false; //종합설계  
bool gcheck11 = false; //공학설계입문  
bool gcheck12 = false; //수학  
bool gcheck13 = false; //졸업확정신고 여부  
  
int one = 0; //교양필수16  
int two = 0; //교양선택12  
int three = 0; //교선 공동체/리더십  
int four = 0; //교선 의사소통/글로벌  
int five = 0; //전기 소프트18  
int six = 0; //전필 소프트15  
int seven = 0; //전공 소프트66  
  
bool ccheck8 = false; //교선 창의융합2개 영역  
bool ccheck9 = false; //채플6회  
  
int a1 = 0;  
int a2 = 0;  
int b1 = 0;  
int b2 = 0;  
int b3 = 0;  
int c1 = 0;  
int c2 = 0;  
int c3 = 0;  
  
class savedata extends StatefulWidget{  
@override  
\_savedataState createState()=> \_savedataState();  
}  
  
class \_savedataState extends State<savedata> {  
List<CrawlData> datas = [];  
 bool isLoading = false;  
  
 \_fetchDatas() async {  
setState(() {  
isLoading = true;  
 });  
 print("함수 실행함");  
final response = await http.get(  
Uri.parse('https://usaintnavi.herokuapp.com/data/1/'));  
 print("접속했음");  
if (response.statusCode == 200) {  
setState(() {  
print("s성공함0");  
 datas = parseCrawlData(utf8.decode(response.bodyBytes));  
 isLoading = false;  
 number = datas  
.elementAt(0)  
.studentID; //학번  
 grade = datas  
.elementAt(0)  
.studentGrade; //학년  
 semester = datas  
.elementAt(0)  
.studentSemester; //학기  
 ing = datas  
.elementAt(0)  
.studentEnrolled; //재학 중인지  
  
 result = datas  
.elementAt(0)  
.graduateScore; //졸업 성적(학점)  
  
 possible = datas  
.elementAt(0)  
.canGraduate; //졸업 가능한지  
  
 first = datas  
.elementAt(0)  
.grad133\_f; //졸업학점133  
 forth = datas  
.elementAt(0)  
.christ4\_f; //기독교과목4학점 이상  
 fifth = datas  
.elementAt(0)  
.softeng60\_f; //주제-소프트공인증60  
 sixth = datas  
.elementAt(0)  
.softbsm18\_f; //BSM-소프트공인증18  
 seventh = datas  
.elementAt(0)  
.prosoft12\_f; //전문교양- 소프트공인증12  
 eighth = datas  
.elementAt(0)  
.archsoft12\_f; //설계-소프트공인증12  
  
 gcheck7 = datas  
.elementAt(0)  
.pyeonip\_f; //편입 요이수 지정과목  
 gcheck8 = datas  
.elementAt(0)  
.gradtest\_f; //졸업논문/졸업시험 이수  
 gcheck9 = datas  
.elementAt(0)  
.elementsci\_f; //기초과학(실험)  
 gcheck10 = datas  
.elementAt(0)  
.allarch\_f; //종합설계  
 gcheck11 = datas  
.elementAt(0)  
.engarchelem\_f; //공학설계입문  
 gcheck12 = datas  
.elementAt(0)  
.matheng\_f; //수학  
 gcheck13 = datas  
.elementAt(0)  
.gradnotice\_f; //졸업확정신고 여부  
  
 one = datas  
.elementAt(0)  
.libartess\_f; //교양필수16  
 two = datas  
.elementAt(0)  
.libartselect\_f; //교양선택12  
 three = datas  
.elementAt(0)  
.leadership\_f; //교선 공동체/리더십  
 four = datas  
.elementAt(0)  
.comglobal\_f; //교선 의사소통/글로벌  
 five = datas  
.elementAt(0)  
.majorelemsoft\_f; //전기 소프트18  
 six = datas  
.elementAt(0)  
.majoresssoft\_f; //전필 소프트15  
 seven = datas  
.elementAt(0)  
.majorsoft\_f; //전공 소프트66  
  
 ccheck8 = datas  
.elementAt(0)  
.libertyart\_f; //교선 창의융합2개 영역  
 ccheck9 = datas  
.elementAt(0)  
.chaple; //채플6회  
  
 a1 = (five+six+seven); //총 전공 학점  
 a2 = (one+two); //총 교양 학점  
 b1 = six; //전공필수 학점  
 b2 = five; //전공기초 학점  
 b3 = seven; //전공선택 학점  
 c1 = one; //교양필수 학점  
 c2 = two; //교양선택 학점  
 c3 = forth; //기독교과목 학점  
 });  
 } else {  
print("성공못함");  
throw Exception('failed to load data');  
 }  
}  
  
@override  
void initState(){  
\_fetchDatas();  
 }  
  
@override  
Widget build(BuildContext context) {  
return Scaffold(  
body: Container(  
color: Colors.white,  
 child: Center(  
child: Column(  
children: <Widget>[  
SizedBox(  
height: 650,  
 child: Center(  
child: Text(  
'정보를\n불러오고\n있습니다',  
 style: TextStyle(  
color: Color.fromRGBO(14, 186, 223, 1),  
 fontWeight: FontWeight.bold,  
 fontSize: 48),  
 ),  
 ),  
 ),  
 ElevatedButton(  
onPressed: () {  
Navigator.of(context).pushNamed('/login/sign');  
 },  
 child: Text('LOG IN'),  
 style: ButtonStyle(  
backgroundColor: MaterialStateProperty.all(  
Color.fromRGBO(14, 186, 223, 1)),  
 fixedSize: MaterialStateProperty.all(  
Size.fromWidth(300))))  
],  
 ),  
 ),  
 ),  
 );  
 }  
}

[api\_adapter.py]

import 'dart:convert';  
import 'model\_crawldata.dart';  
  
List<CrawlData> parseCrawlData(String responseBody){  
final parsed = json.decode(responseBody).cast<Map<String, dynamic>>();  
return parsed.map<CrawlData>((json)=>CrawlData.fromJson(json)).toList();  
}

[model\_crawldata.dart]

class CrawlData{  
int studentID = 0;  
 int studentGrade = 0;  
 int studentSemester = 0;  
 bool studentEnrolled = false;  
  
 double graduateScore = 0.0;  
  
 bool canGraduate = false;  
  
 double grad133\_f = 0.0;  
  
 int christ4\_f = 0;  
 int softeng60\_f = 0;  
 int softbsm18\_f = 0;  
 int prosoft12\_f = 0;  
 int archsoft12\_f = 0;  
  
 bool pyeonip\_f = false;  
 bool gradtest\_f = false;  
 bool elementsci\_f = false;  
 bool allarch\_f = false;  
 bool engarchelem\_f = false;  
 bool matheng\_f = false;  
 bool gradnotice\_f = false;  
  
 int libartess\_f = 0;  
 int libartselect\_f = 0;  
 int leadership\_f = 0;  
 int comglobal\_f = 0;  
 int majorelemsoft\_f = 0;  
 int majoresssoft\_f = 0;  
 int majorsoft\_f = 0;  
  
 bool libertyart\_f = false;  
 bool chaple = false;  
  
 CrawlData({  
required this.studentID, required this.studentGrade, required this.studentSemester, required this.studentEnrolled,  
required this.graduateScore,  
required this.canGraduate,  
required this.grad133\_f,  
required this.christ4\_f, required this.softeng60\_f, required this.softbsm18\_f, required this.prosoft12\_f, required this.archsoft12\_f,  
required this.pyeonip\_f, required this.gradtest\_f, required this.elementsci\_f, required this.allarch\_f, required this.engarchelem\_f, required this.matheng\_f, required this.gradnotice\_f,  
required this.libartess\_f, required this.libartselect\_f, required this.leadership\_f, required this.comglobal\_f, required this.majorelemsoft\_f, required this.majoresssoft\_f, required this.majorsoft\_f,  
required this.libertyart\_f, required this.chaple  
 });  
  
 CrawlData.fromMap(Map<String, dynamic> map)  
: studentID = map['studentID'],  
 studentGrade = map['studentGrade'],  
 studentSemester = map['studentSemester'],  
 studentEnrolled = map['studentEnrolled'],  
  
 graduateScore = map['graduateScore'],  
  
 canGraduate = map['canGraduate'],  
  
 grad133\_f = map['grad133\_f'],  
  
 softeng60\_f = map['softeng60\_f'],  
 softbsm18\_f = map['softbsm18\_f'],  
 prosoft12\_f = map['prosoft12\_f'],  
 archsoft12\_f = map['archsoft12\_f'],  
  
 pyeonip\_f = map['pyeonip\_f'],  
 gradtest\_f = map['gradtest\_f'],  
 elementsci\_f = map['elementsci\_f'],  
 allarch\_f = map['allarch\_f'],  
 engarchelem\_f = map['engarchelem\_f'],  
 matheng\_f = map['matheng\_f'],  
 gradnotice\_f = map['gradnotice\_f'],  
  
 libartess\_f = map['libartess\_f'],  
 libartselect\_f = map['libartselect\_f'],  
 leadership\_f = map['leadership\_f'],  
 comglobal\_f = map['comglobal\_f'],  
 majorelemsoft\_f = map['majorelemsoft\_f'],  
 majoresssoft\_f = map['majoresssoft\_f'],  
 majorsoft\_f = map['majorsoft\_f'],  
  
 libertyart\_f = map['libertyart\_f'],  
 chaple = map['libertyart\_f'];  
  
 CrawlData.fromJson(Map<String, dynamic> json)  
: studentID = json['studentID'],  
 studentGrade = json['studentGrade'],  
 studentSemester = json['studentSemester'],  
 studentEnrolled = json['studentEnrolled'],  
  
 graduateScore = json['graduateScore'],  
  
 canGraduate = json['canGraduate'],  
  
 grad133\_f = json['grad133\_f'],  
  
 softeng60\_f = json['softeng60\_f'],  
 softbsm18\_f = json['softbsm18\_f'],  
 prosoft12\_f = json['prosoft12\_f'],  
 archsoft12\_f = json['archsoft12\_f'],  
  
 pyeonip\_f = json['pyeonip\_f'],  
 gradtest\_f = json['gradtest\_f'],  
 elementsci\_f = json['elementsci\_f'],  
 allarch\_f = json['allarch\_f'],  
 engarchelem\_f = json['engarchelem\_f'],  
 matheng\_f = json['matheng\_f'],  
 gradnotice\_f = json['gradnotice\_f'],  
  
 libartess\_f = json['libartess\_f'],  
 libartselect\_f = json['libartselect\_f'],  
 leadership\_f = json['leadership\_f'],  
 comglobal\_f = json['comglobal\_f'],  
 majorelemsoft\_f = json['majorelemsoft\_f'],  
 majoresssoft\_f = json['majoresssoft\_f'],  
 majorsoft\_f = json['majorsoft\_f'],  
  
 libertyart\_f = json['libertyart\_f'],  
 chaple = json['libertyart\_f'];  
}