**종합설계 프로젝트 수행 보고서**

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| --- | --- |
| 프로젝트 명 | **“딥러닝 기반 식물 식별 서비스”** |
| 팀 번호 | S2-9 |
| 문서 제목 | **수행계획서( )**  **2차발표 중간보고서( )**  **3차발표 중간보고서( )**  **4차발표 중간보고서(o)**  **최종결과보고서( )** |

**2021.06.18**

**S2-9 팀원 : 배기선 (팀장)**

**김지원 (팀원)**

**주우재 (팀원)**

**지도교수 : 박정민 교수**

**지도교수 : 박정민 교수**

# 문서 수정 내역

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| --- | --- | --- | --- | --- |
| **작성일** | **대표작성자** | **버전(Revision)** | **수정내용** |  |
| 2020.11.11. | 배기선, 김지원, 주우재 | 1.0 | 1차 발표자료 작성 | 최초 작성 |
| 2020.11.12. | 배기선, 김지원, 주우재 | 1.1 | 1차 발표자료  내용 추가 | 개발 환경 변경 |
| 2020.12.28. | 김지원 | 2.0 | 1차 계획서 작성 | 최초 작성 |
| 2020.12.28. | 배기선, 김지원 | 2.1 | 1차 계획서  내용 추가 | 개발 환경 추가 |
| 2021.02.18. | 배기선, 주우재 | 3.0 | 2차 발표자료 작성 | 최초 작성 |
| 2021.02.19. | 김지원 | 3.0 | 수행 보고서 작성 | 최초 작성 |
| 2021.03.01. | 배기선, 김지원, 주우재 | 3.1 | 2차 발표자료  내용 추가 | 내용 추가 |
| 2021.05.07 | 배기선 | 4.0 | 수행 보고서 추가 작성 | 추가 작성 |
| 2021.06.18 | 배기선, 주우재, 김지원 | 4.1 | 수행 보고서 추가 작성 | 추가 작성 |

**이 문서는 한국산업기술대학교 컴퓨터공학부의 “종합설계”교과목에서 프로젝트 “딥러닝 기반 식물 식별 서비스”를 수행하는 (S2-9, 배기선, 김지원, 주우재)들이 작성한 것으로 사용하기 위해서는 팀원들의 허락이 필요합니다.**

# Ⅰ. 서 론

## 작품 선정 배경

**-선물 받은 알 수 없는 식물의 정보 확인**

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| * 집에서 미관 목적이나 공기 정화 등의 목적을 지닌 키우기 쉬운 식물을 선물 받았을 경우 식물의 이름을 알지 못 하는 상황에서 사용 * 선물 받은 식물의 정보가 기억나지 않는 상황에서 사용 | C:\Users\user\Desktop\commonJ2V7TTVQ.jpg |

**-길에서 발견한 식물의 정보 확인**

|  |  |
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| * 길가에 피어 있는 이름을 알 수 없는 식물에 대한 정보를 알고 싶은 상황에서 사용 | https://search.pstatic.net/common/?src=http%3A%2F%2Fblogfiles.naver.net%2F20121219_111%2Ftpmav00_1355897358667NwBCR_JPEG%2FuT4tni_UGmHzzoiREzrSxQ.jpg&type=sc960_832 |

## 기존의 시장/기술동향 분석

1. LG V30S 씽큐

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| * 카메라로 꽃을 비추면   수억 개의 데이터를 기반으로 한 인공지능이 피사체와 가장 비슷한 사물들의 이름을 나열 | https://search.pstatic.net/common/?src=http%3A%2F%2Fimgnews.naver.net%2Fimage%2F016%2F2018%2F02%2F26%2F20180226000011_1_20180226071651565.jpg&type=sc960_832 |

1. 네이버 이미지 인식 서비스 베타버전

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| * 카메라로 사물을 찍으면 이미지 인식서비스가 이를 인지하여   쇼핑 또는 다양한 서비스로 연계 | https://search.pstatic.net/common/?src=http%3A%2F%2Fimgnews.naver.net%2Fimage%2F138%2F2017%2F07%2F11%2F0002052359_001_20170711103014835.jpg&type=sc960_832 |

1. 다음 어플리케이션 사물 검색

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| * 사물 검색은 이용자가 도서, 영화 포스터, 주류 라벨 등을   카메라로 촬영하면 해당 사물을 인식해 바로 검색 결과로 제공 | https://search.pstatic.net/common/?src=http%3A%2F%2Fimgnews.naver.net%2Fimage%2F014%2F2011%2F08%2F11%2F0922389143_0.jpg&type=sc960_832 |

## 개발 목표

- 누구나 핸드폰 하나로 식물을 쉽게 찾을 수 있게 한다.

- 식물 관리에 필요한 물 주기, 식물에 맞는 영양제, 다양한 식물 정보 등과

같은 도움을 줄 수 있도록 한다.

## 팀 역할 분담

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| **번호** | **성명** | **주요 역할** |
| 1 | 배기선 | 안드로이드 서버 통신, Json 데이터 파싱 |
| 2 | 김지원 | 카메라 기능 구현, 앱 기능 구현, 데이터 수집 |
| 3 | 주우재 | Tensorflow 모델 구현, TF.Lite 모델 적용, 이미지 변환, 안드로이드 서버 통신 |

## 개발 일정



## 개발 환경

- 개발 언어 : Python, Java

- 사용 라이브러리 : Tensorflow 2.0

- 개발 환경 : 파이참, 아나콘다, 주피터, Android Studio

- DB : 직접 수작업으로 입력 또는 공공데이터 포탈

## **개발 내용**

- 사진을 찍어서 식물을 식별

- 식별된 식물의 정보 제공

- 식물의 이름으로 검색

- 관리자 웹페이지로 식물 정확도를 확인

- 관리자 웹페이지로 사용자들의 앱 만족도 확인

## **문제 및 해결방안**

가. 사진을 찍어서 식물을 식별

→ Python 기반의 Tensorflow 활용

나. 식별된 식물의 정보 제공

→ 수작업으로 입력하거나 공공데이터 포탈의 데이터베이스 활용

다. 식물의 이름으로 검색

→ 수작업으로 입력하거나 공공데이터 포탈의 데이터베이스 활용

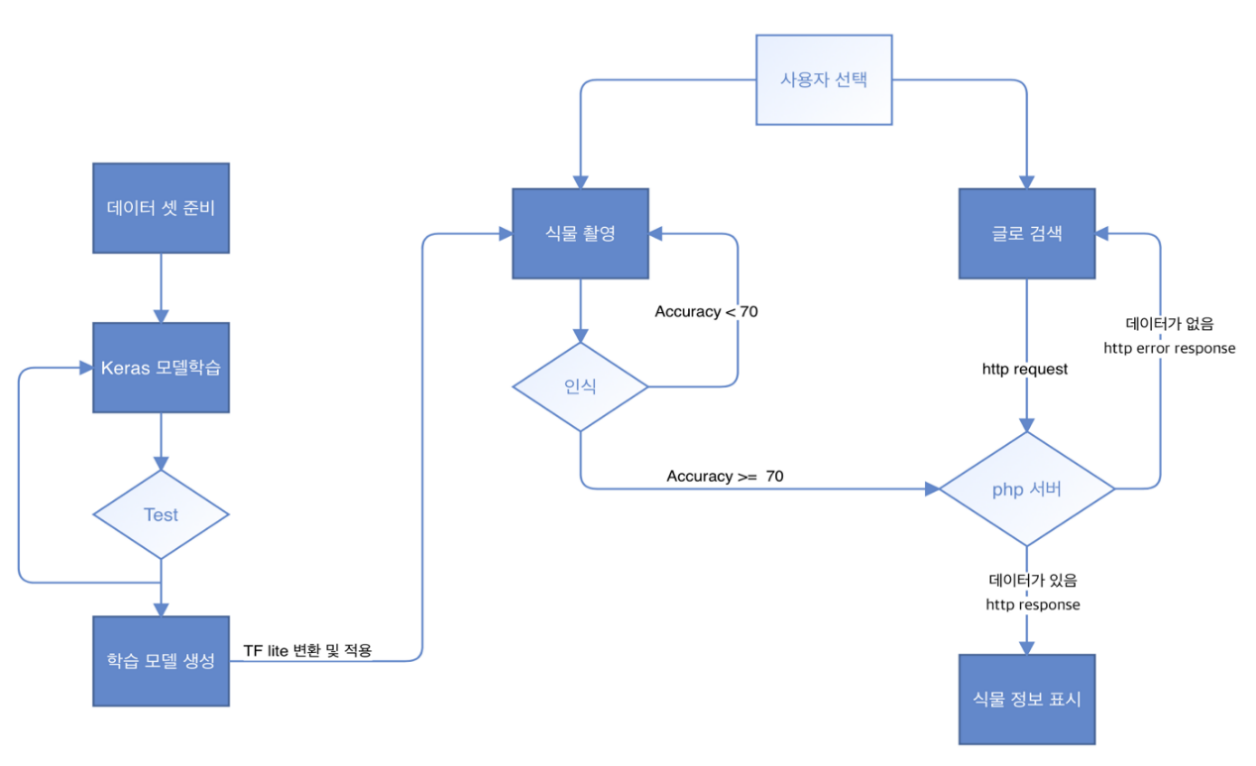
라. 관리자 웹페이지로 식물 정확도를 확인

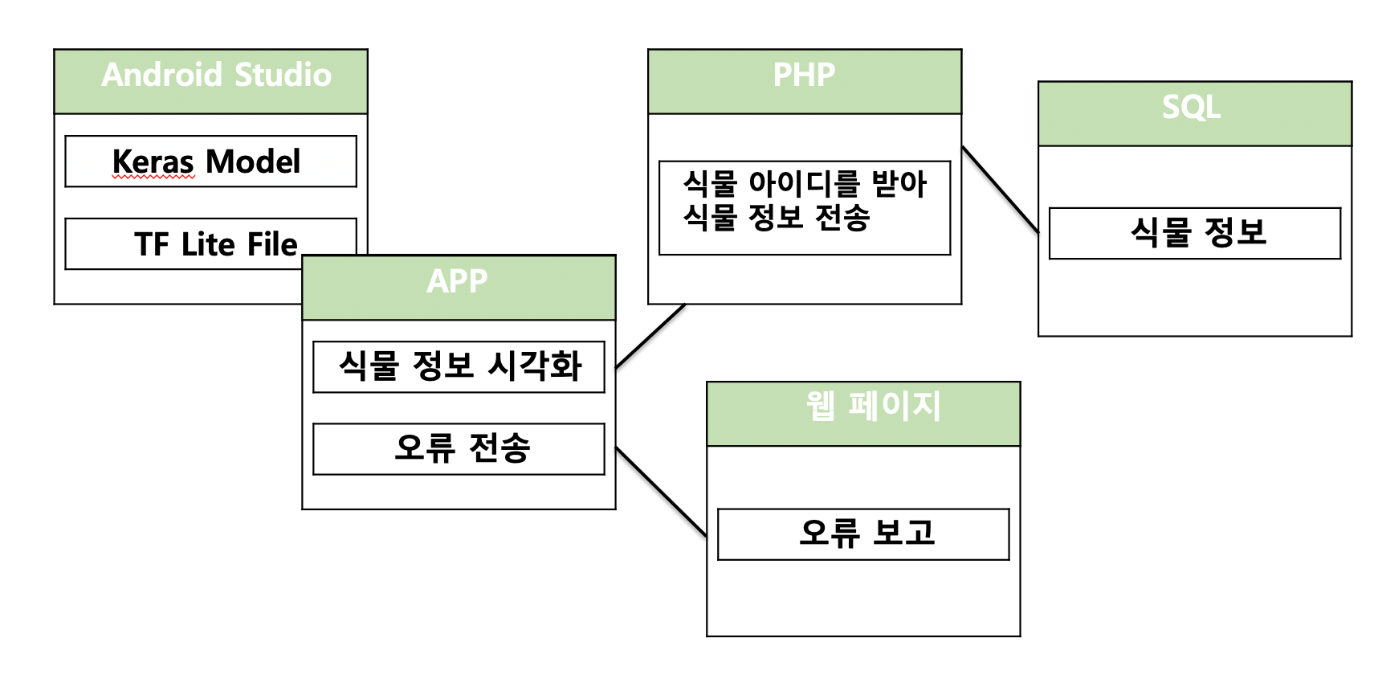
→ 이클립스, 톰캣

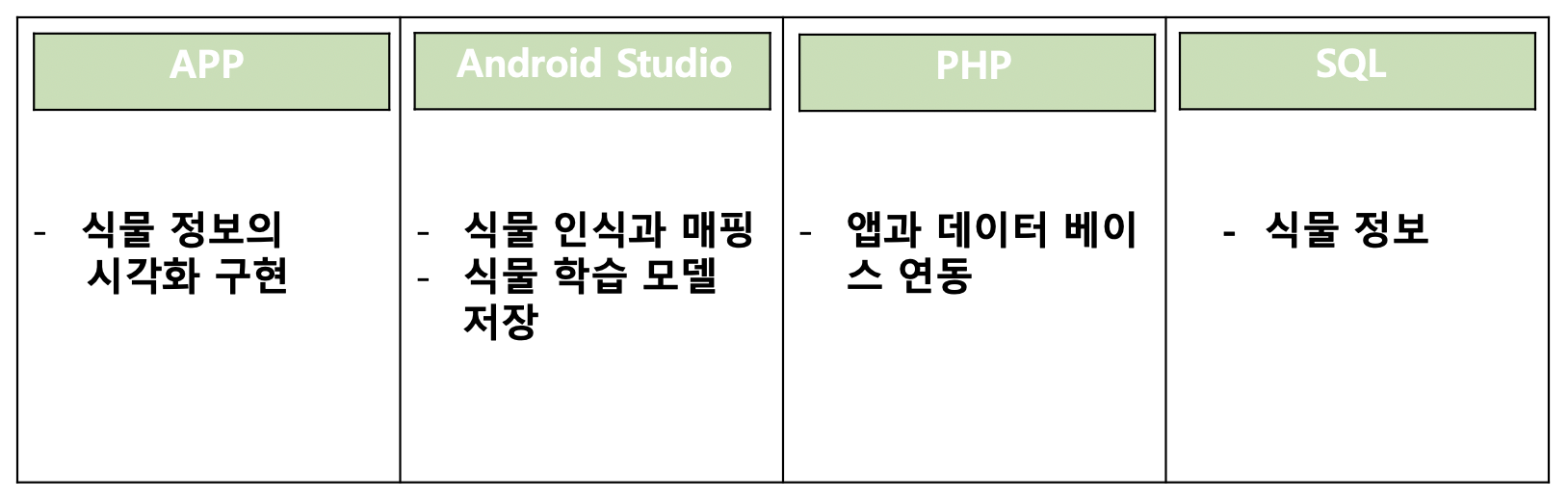
1. 관리자 웹페이지로 사용자들의 앱 만족도 확인

→ 이클립스, 톰캣

## **시험 시나리오 & 시스템 구성도**







## **상세 설계**

1. Data Set 설정
   * + **구글 웹 프로그램인 Image Downloader를 사용해 인터넷에 있는 식물 사진을 다량으로 수집한다**

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* + - **수집한 데이터셋 변환 – 확장자 변경**

**→ 파일 확장자를 (.png)일괄 처리합니다.**

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* + - **수집한 데이터셋 변환 – 이미지 크기 변환**

**→ 이미지 pixel 사이즈를 128 \* 128 로 일괄처리합니다.**

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* + - **수집한 데이터셋 변환 – 이미지 회전 & 필터**

**→ 한정된 데이터셋으로부터 충분한 학습량을 갖도록 하기 위해**

**한 가지의 이미지에 회전 및 필터를 적용**

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1. 학습 모델 구성
   * + **모델 : 퍼셉트론을 기반으로한 Convolution**

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| C:\Users\user\Pictures\Screenshots\스크린샷(67).png |

* + - **모델 구조**

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1. 촬영한 사진 예측 TF Lite 변환
   * + **데이터 셋학습 및 손실, 정확도 확인**

모델의 학습할 횟수(Epoch)를 지정하고 각 횟 수당 모델을

컴파일하는 과정에서 Loss와 Accuracy를 보인다.

그 후 생성된 모델을 통해 예측한다.

model.compile(loss = ‘categorical\_crossentropy’, metrics=’accuracy’)

model.fit(독립, 종속, epochs=20)

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| **’** |

↑ 실험 셋을 통해 만들어진 모델에 다시 Input으로 검증

( 셋을 적용하여 모델 성능을 평가 )

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↑ 안드로이드에서 활용할 수 있도록 TF Lite 변환

1. 학습 모델 구성
   * + **모델 추출 및 변환**

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| **→ 해당 모델을 안드로이드 스튜디오에 넣기 위해 TF Lite로 변환** |

* + - **안드로이드 스튜디오에 파일 추가**

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| **모델을 추 모델을 추가한 후 사진을 촬영하여**  **해당 이미지를 분류한다.** |

1. 식물 정보 표시

안드로이드에서 웹서버에 데이터 요청 응답을 하기 위해

Volley 라이브러리를 사용하여 네트워크 통신을 한다.

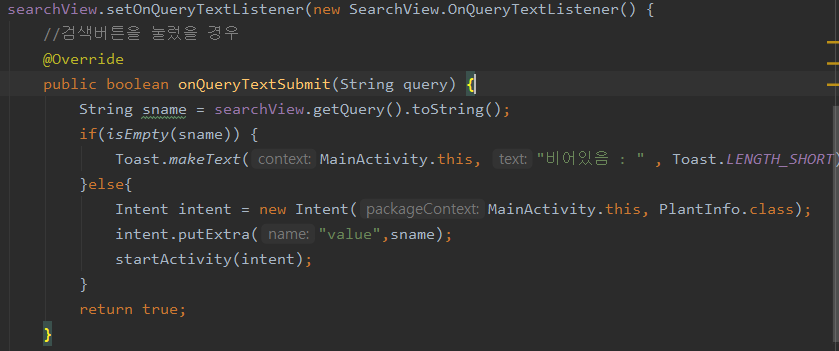
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| C:\Users\user\Pictures\Screenshots\스크린샷(69).png |

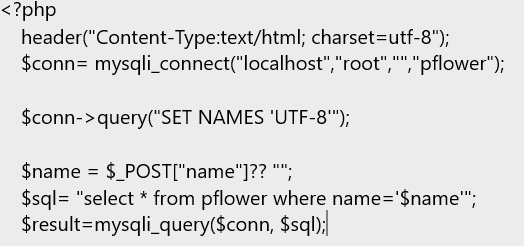
1. 데이터 파싱

DB에 저장된 식물 정보를 안드로이드에 Json을 통해 출력하고 식물의 사진은 안드로이드 Drawable에 넣고 디비에 사진이름을 넣어서 출력하도록 만들었다.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGtpc3VuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM2OQAAkpIAAgAAAAM2OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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SearchView를 통해 검색받은 식물 이름을 php로 보내고 받은 식물이름에 해당하는 정보를 보여준다.



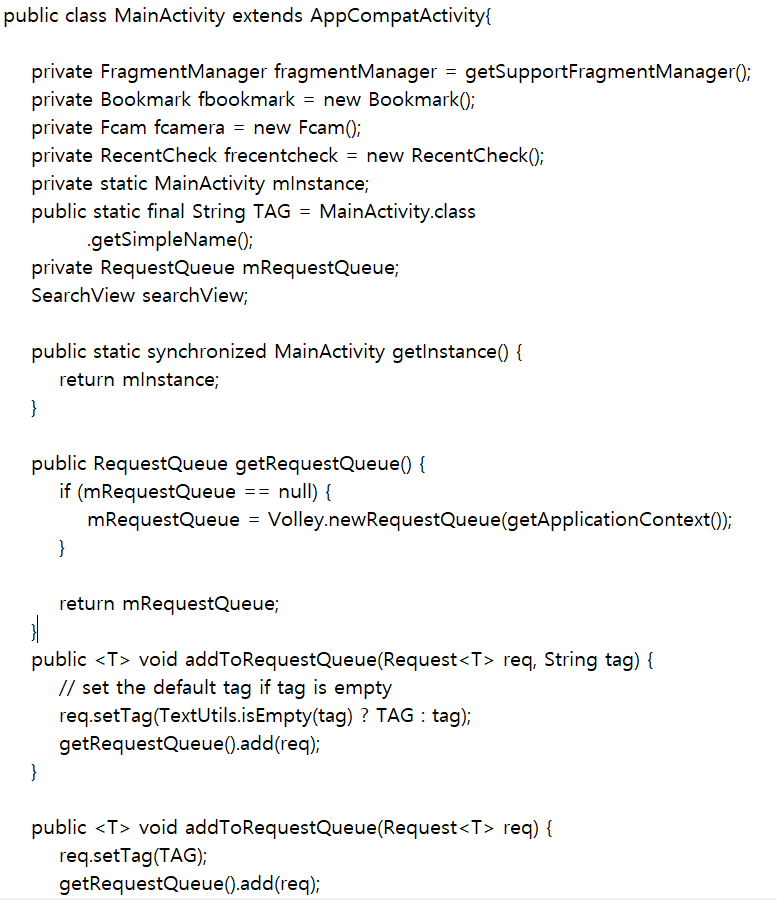
1. 외부 접근을 위한 포트 포워딩 설정

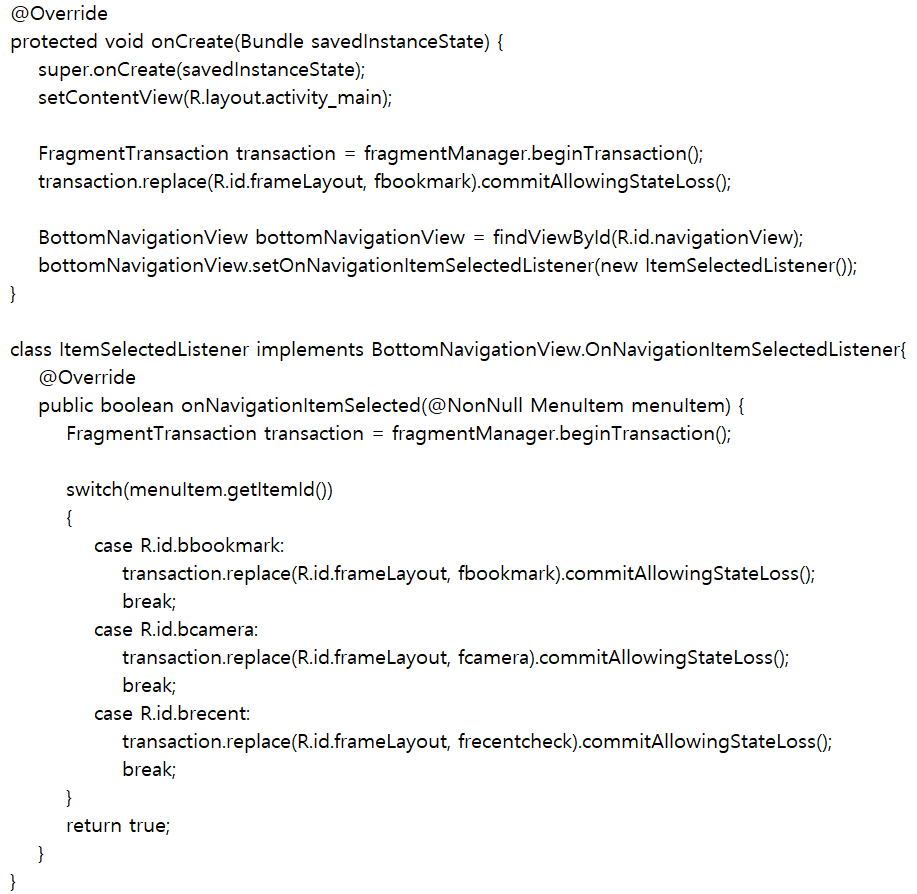
외부 포트 80번을 개방하고 내부 포트 80(톰캣)에 연결해준다.   
만약 이중 공유기일 경우 상위 공유기를 DMZ로 설정하고 하위 공유기는 밑의 사진처럼 설정한다.

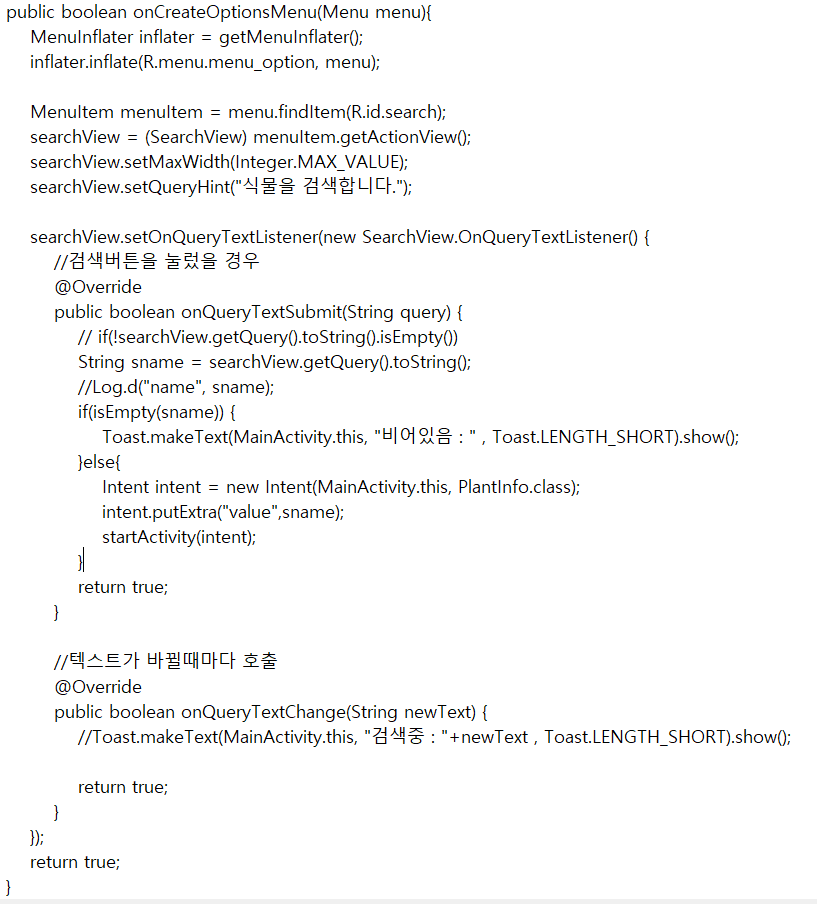
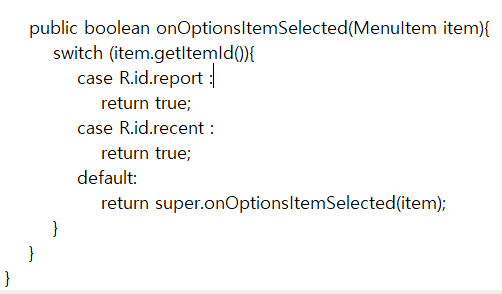
외부에서도 접근을 하기 때문에 공유기 내부 아이피인 192.168.123.103으로 url을 설정하는 것이 아니라 공유기 외부 아이피로 접속하도록 만들었다.

## **Coding & Demo**

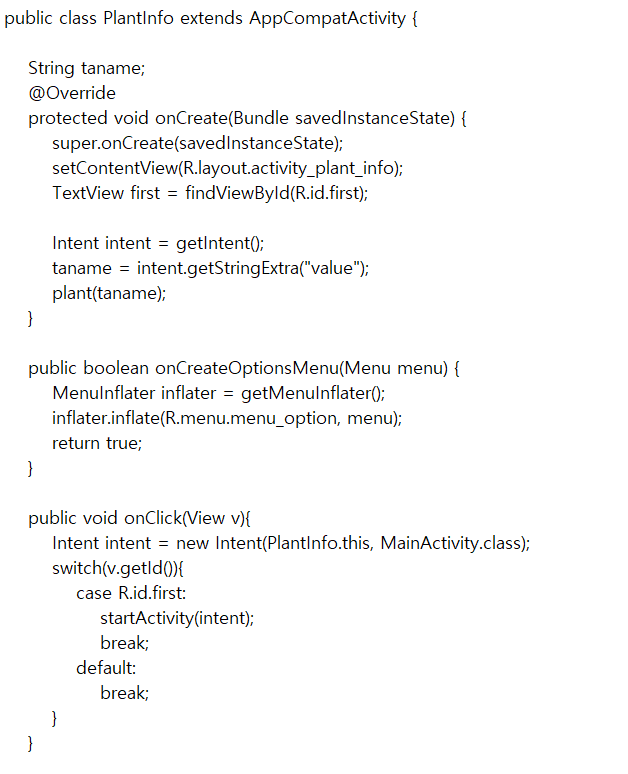
**MainActivity.java(검색, 네비게이션 바, 메뉴)**

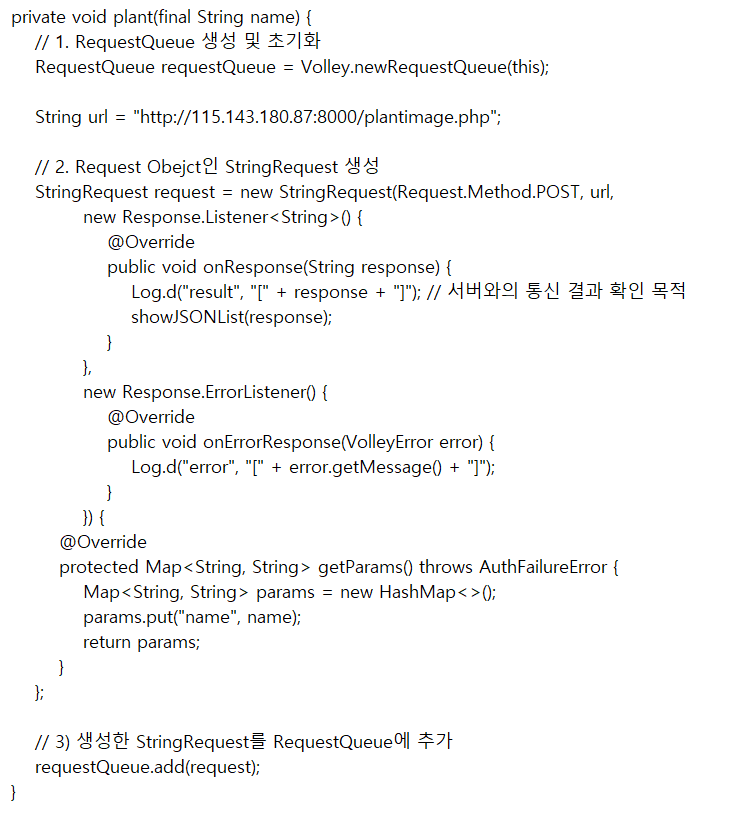


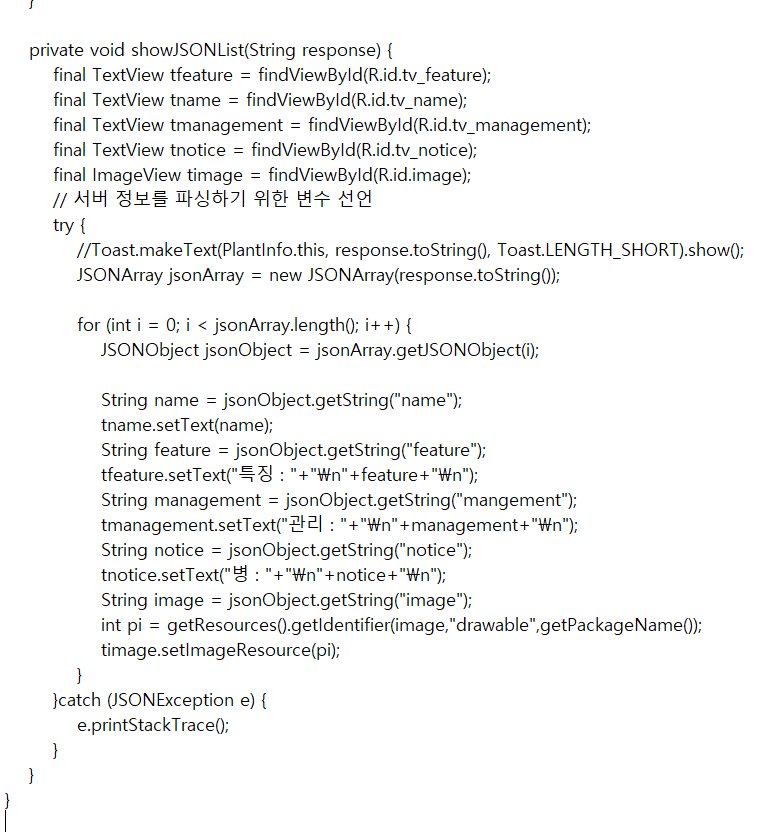


**PlantInfo.java(검색한 식물 정보 표시)**







**MainActivity.java(사진,앨범 표시)**

