



# **Open Source SW Development** **(오픈소스SW 개발)** **CSE22300**

# About the Course

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- **[CSE22300] Open Source SW Development**
- **Instructor**
  - **Seongwook Jin, Dept. Of Computer Engineering and KIWIPLUS**
- **Textbook**
  - **Slides**
  - **Reference “Cathedral and Bazaar” by Eric Raymond**
- **Evaluation**
  - **Final Exam.           25%**
  - **Mid Exam.           25%**
  - **Experiments       20%**
  - **Term Project       20%**
  - **Attendance       10%**

# About the Course

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- **Course Webpage**
  - **KLAS**

# About the Course

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- **Course Schedule**
  - **9/7**            **Orientation**
  - **9/14**          **Introduction to Open Source SW**
  - **9/21**          **GIT Basics**
  - **9/28**          **GIT Branch**
  - **10/5**          **GIT Advanced**
  - **10/12**        **GitHub**
  - **10/19**        **JavaScript**
  - **10/26**        **Mid-Term Exam**
  - **11/2**          **Node.js**
  - **11/9**          **Node.js**
  - **11/16**        **Cloud Computing, AWS**
  - **11/23**        **Linux Basics**
  - **11/30**        **Linux Administration**
  - **12/7**          **Term Project Presentation**
  - **12/14**        **Reserved Class**
  - **12/21**        **Final-Term Exam**

# Open Source

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- **Proprietary Software**
  - Written by closed group
  - Released in binary form
  - Restrictive license

4. Use Restrictions. As the Licensee, you may physically transfer the Software from one computer to another provided that the Software exists on only 1 machine at any one time. You may not distribute copies of the Software or accompanying written materials to others. You may not modify, adapt, translate, reverse engineer, disassemble, decompile, or create derivative works based on the Software. You may not modify, adapt, translate, reverse engineer, disassemble, decompile, or create derivative works based on the written materials without the prior written consent of Screaming Bee Inc.

# Open Source

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- **Open Source Software**
  - Source code is available to the public
  - Anyone to copy, modify and redistribute the source code
  - GNU/Linux, Eclipse, Apache, Mozilar
- **Pros**
  - Lower cost
  - Flexibility
  - Reliability and quality
  - No dependency
- **Cons**
  - Lack of personalized support
  - Restricted choice
  - Speed of change
  - No Warranty

# GIT

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- **Repository (aka “repo”): a location storing a copy of all files.**
  - you don't edit files directly in the repo;
  - you edit a local working copy or “working tree”
  - then you commit your edited files into the repo
- **There may be only one repository that all users share (CVS, Subversion)**
- **Or each user could also have their own copy of the repository (Git, Mercurial)**
- **Files in your working directory must be added to the repo in order to be tracked.**

# Linux

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- **It's a free operating system!**
- **Open Source (modifiability, extensibility, ...)**
- **Works on several platforms**
- **Robustness (after several revisions, and several people working on it)**
- **Widespread Usage**
- **Compatibility with several other platforms.**



# Term Project

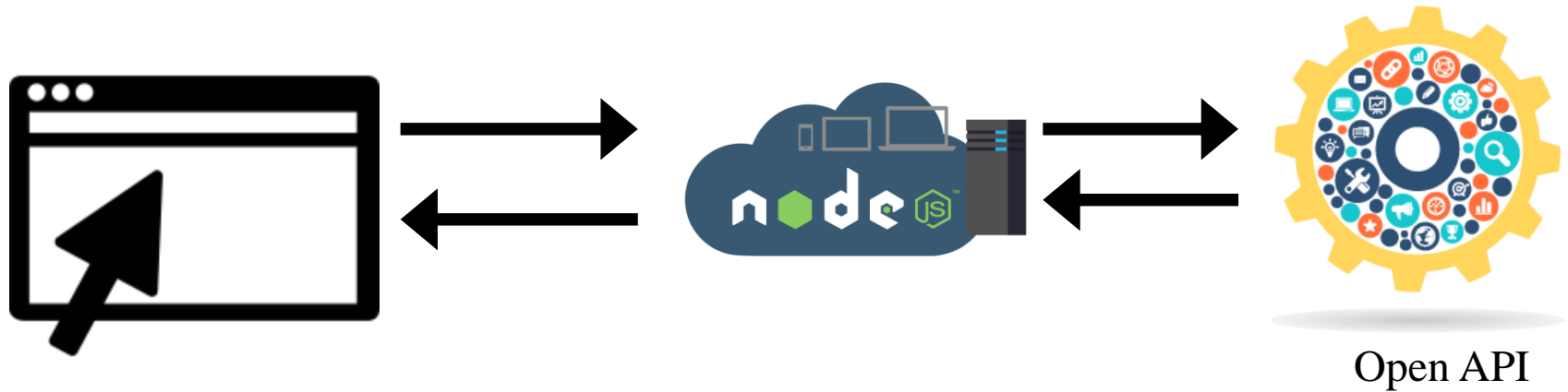
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- **Based on Node.js**
  - Based on Mother Project (2~3학년)
  - Free Project (4학년)
- **Group project**
  - Consists of three member at most

# Recommend

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- **Node.js + Express + Open API**



# Recommend

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- **Open API**
  - **Naver Open API**
    - <https://developers.naver.com/main/>
  - **KAKAO Open API**
    - <https://developers.kakao.com/>
  - **Google Open API**
    - <https://developers.google.com/apis-explorer/#p/>
  - **공공데이터 포털**
    - <https://www.data.go.kr/>
  - **Others**

# Recommend

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- **Open API**
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  - **KAKAO Open API**
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  - **Google Open API**
    - <https://developers.google.com/apis-explorer/#p/>
  - **공공데이터 포털**
    - <https://www.data.go.kr/>
  - **Others**

# Example



# Example

## Contents



### PROJECT 내용



### 구현 방법



### 개발 ISSUE



### 향후 계획

현재 20대,30대 청년들의 청소년 시절 히로애락을 함께하였으나

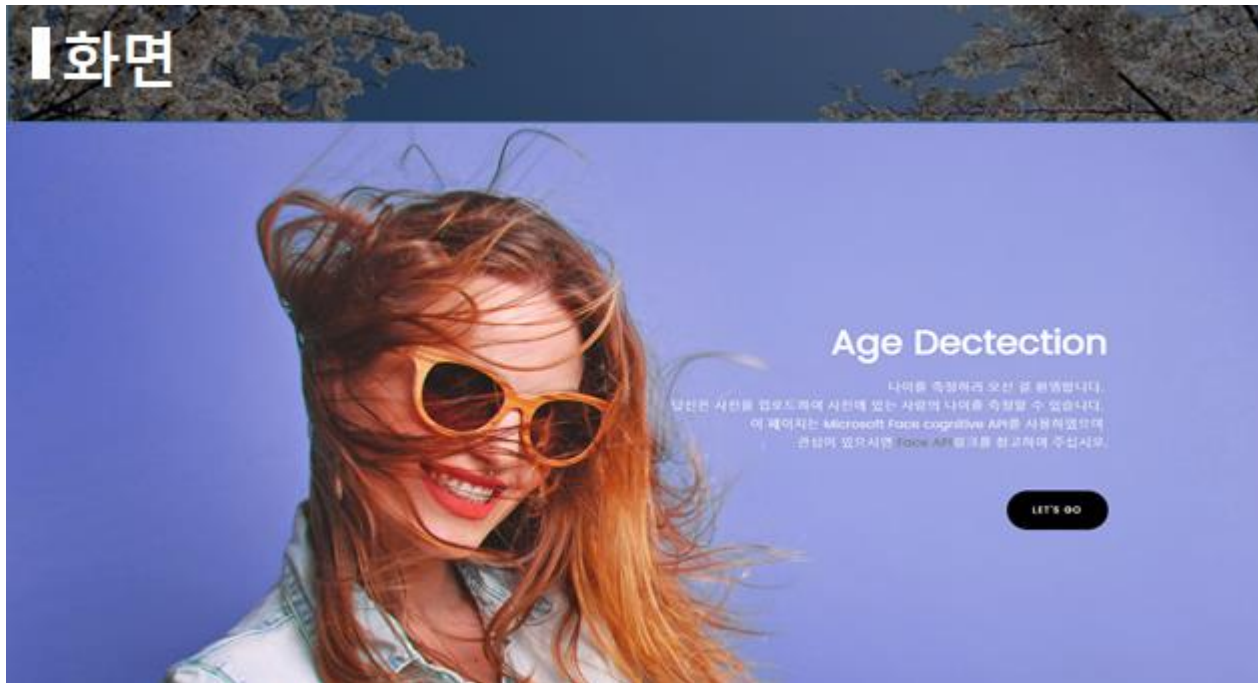
시대의 변화에 따라 우리의 길을 지키지 못하고

서비스 종료로 생을 마감한 그 때 그 시절, 우리의 추억들..

**그들의 넋을 기리기 위한 추모 페이지.**

# Example

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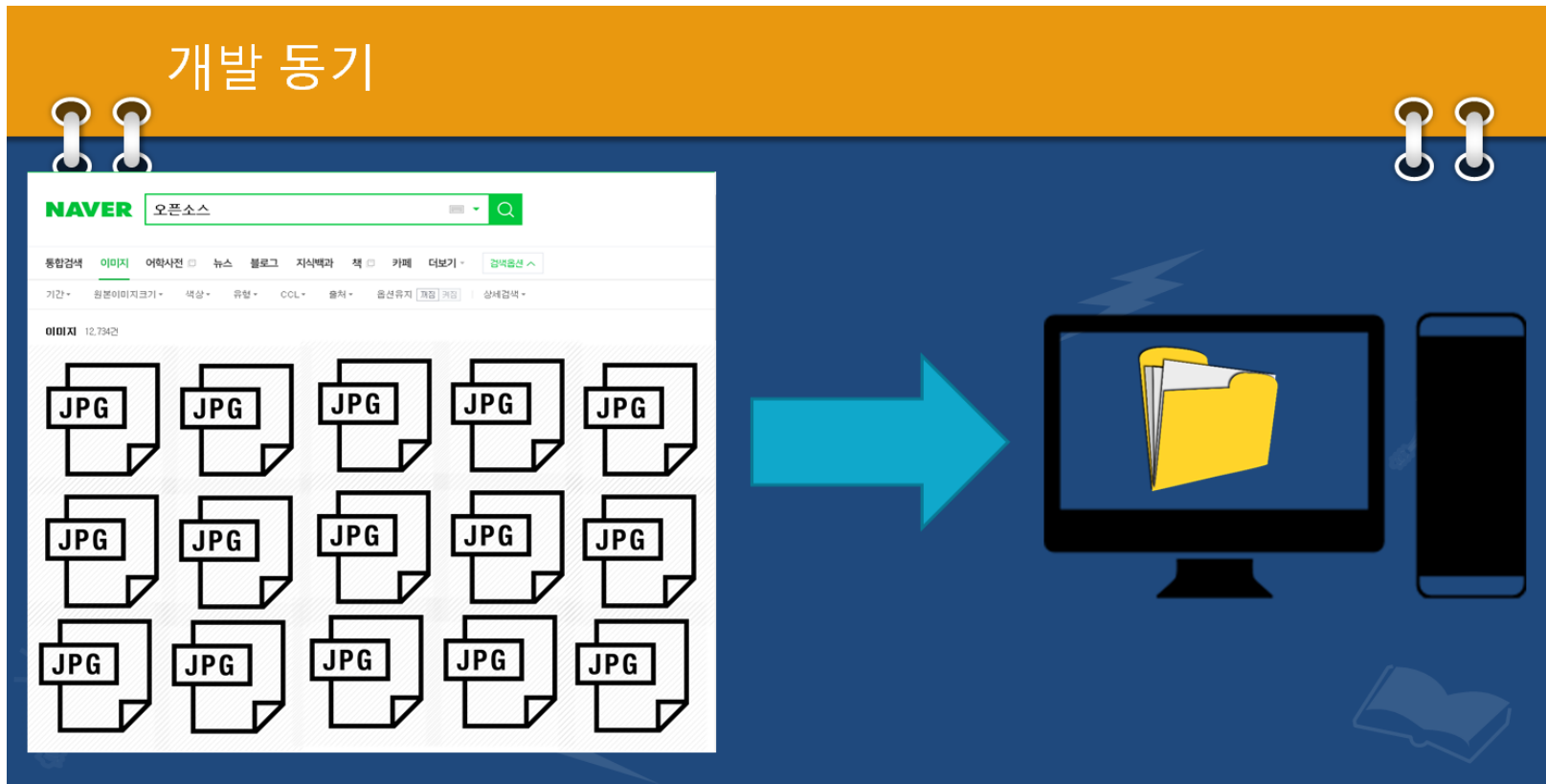


# Example





# Example



# Example

## Process 과정

검색할 단어 입력 -> 단어에 대한 사진들 출력

사진 선택 -> 선택된 사진으로 zip 파일 생성 및 전송



Server



Client

# Example

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우리 팀에  
트롤이 ?

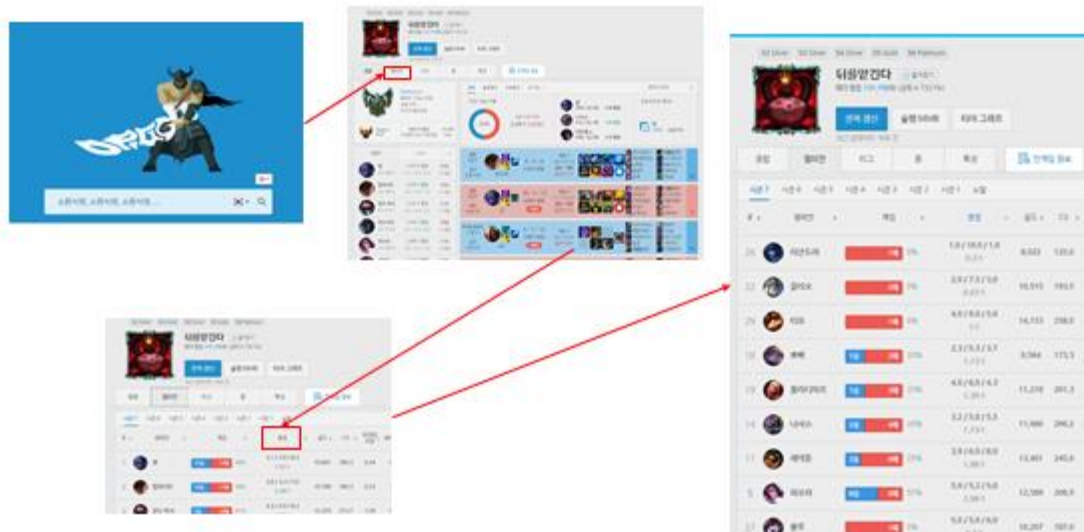


2012104105

윤태양

# Example

## 주제 설명



# Example

## 구현 내용

The screenshot shows the Riot Games Developer API documentation for the CHAMPION-MASTERY-V3 endpoint. The left sidebar lists various API endpoints, and the main content area details the CHAMPION-MASTERY-V3 endpoint, including its URL, response classes, and a table of response fields.

**CHAMPION-MASTERY-V3**

URL: /v3/champion-mastery/v3/champion-masteries/by-summoner/{summonerId}

Return value: List<ChampionMasteryDTO>

**Response Classes**

ChampionMasteryDTO: This object contains single Champion Mastery information for player and champion combination.

Field	Data Type	Description
championId	int	Champion level for specified player and champion combination.
championLevel	int	Champion level for specified player and champion combination.
championPoints	int	Total number of champion points for this player and champion combination - they are used to determine championLevel.
championPointsUntilNextLevel	long	Number of points needed to achieve next level. Zero if player reached maximum champion level for this champion.
championPointsSinceLastLevel	long	Number of points earned since current level has been achieved. Zero if player reached maximum champion level for this champion.
lastPlayTime	long	Last time this champion was played by this player - in this milliseconds time format.

**Response Errors**

HTTP Status Code	Reason
401	Not account

를 API

JSON 데이터로 받아올 수 있음

# Mother Project

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- **PUBGHACK**
  - <http://khuhub.khu.ac.kr/OSS-2018-02/PUBGHACK>
  - Hack Detector for PUBG
- **KAKAOBOT**
  - <http://khuhub.khu.ac.kr/OSS-2018-02/KakaoBot>
  - Translator using KAKAO
- **FaceDetection**
  - <http://khuhub.khu.ac.kr/OSS-2018-02/FaceDetection>
  - Age Detector using MS API
- **RUTROLL**
  - <http://khuhub.khu.ac.kr/dashboard/projects>
  - Troll Detector
- **니툰내툰**
  - <http://khuhub.khu.ac.kr/OSS-2018-02/YTMT>
  - Webtoon Manager