Database Practice Web programming
Final Presentation

Information of
APP STORE
Proposal for developer

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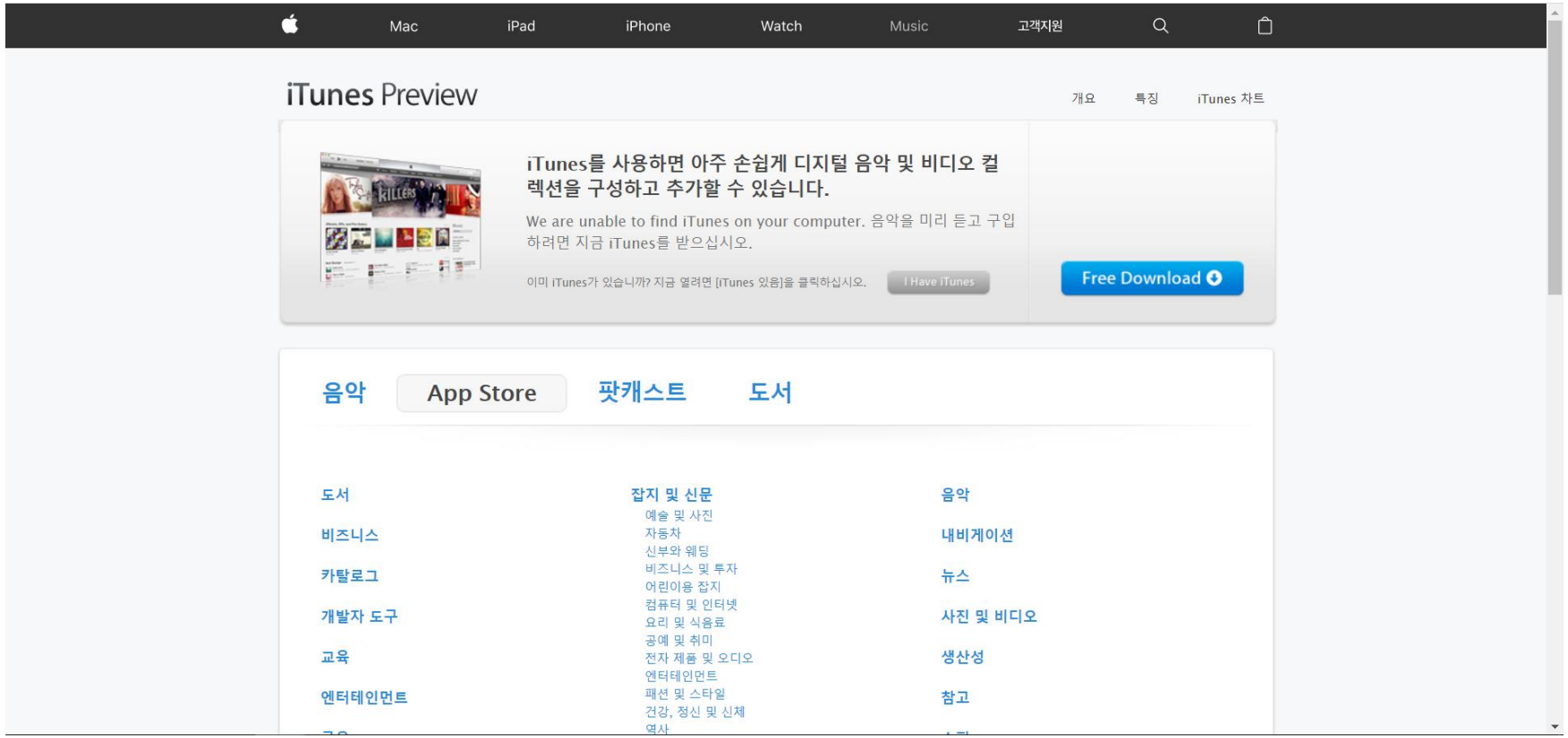
DATA

How to get data



Gather data files from app store web page by crawling

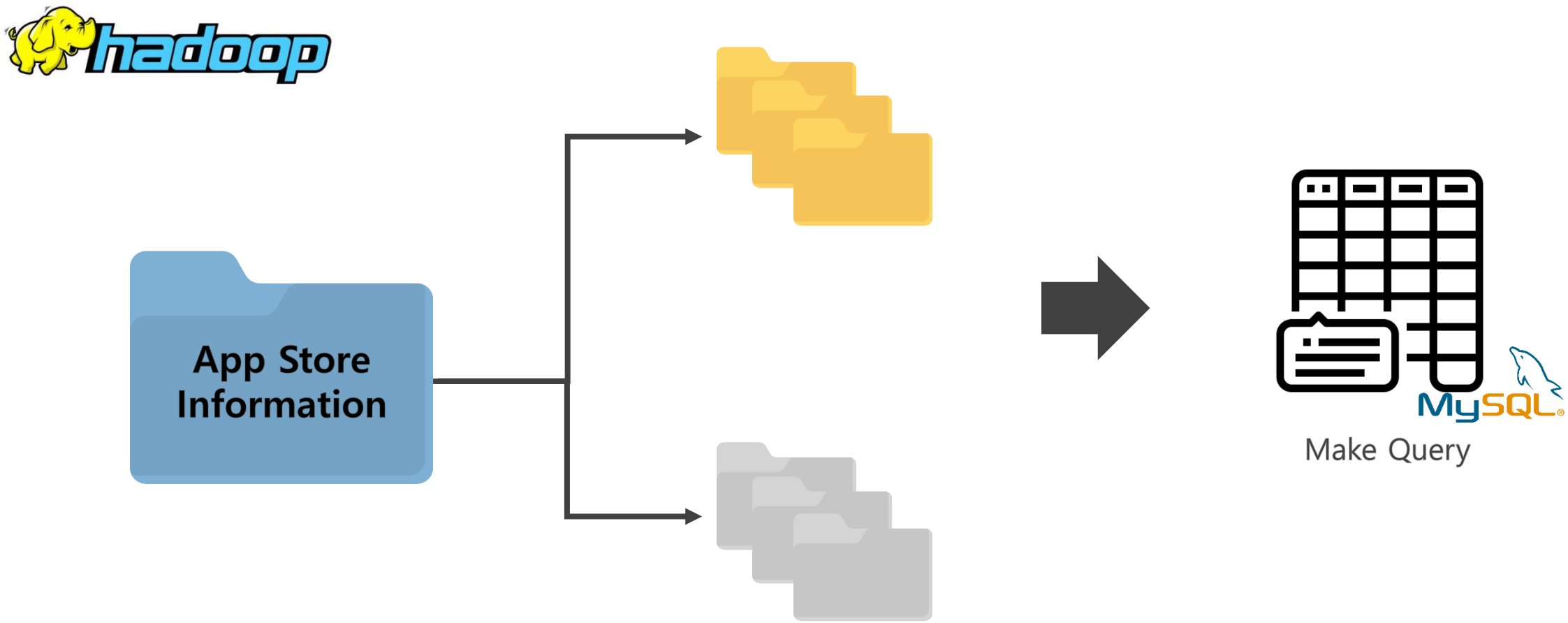
DATA

Data files

Name	Details	Type
name	Application name	String
category	Application category	String
rating	Application score rated by users on a scale of 5	Float
review	The number of reviews	Int
price	Application price	String
content_rating	Age of use for applications	String

IMPLEMENTATION

Description



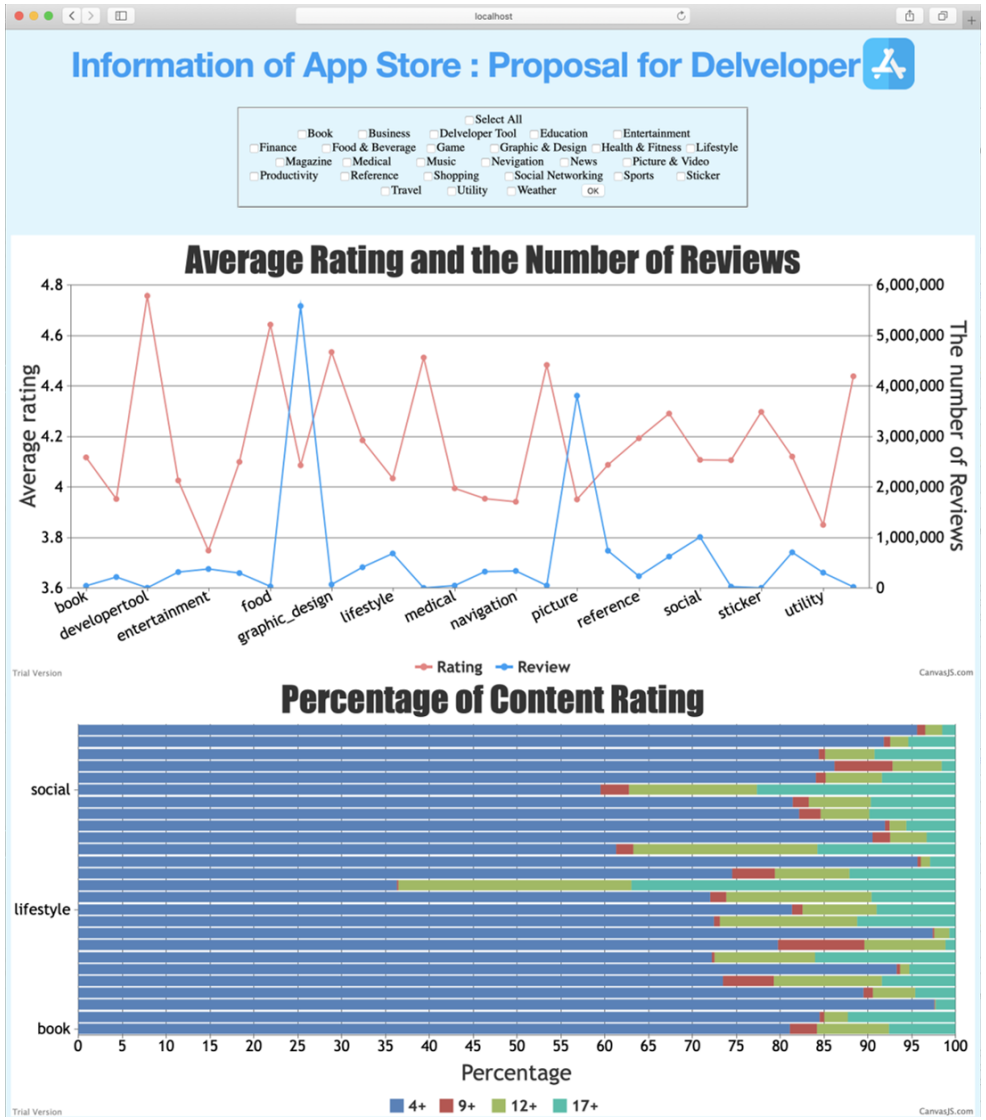
IMPLEMENTATION

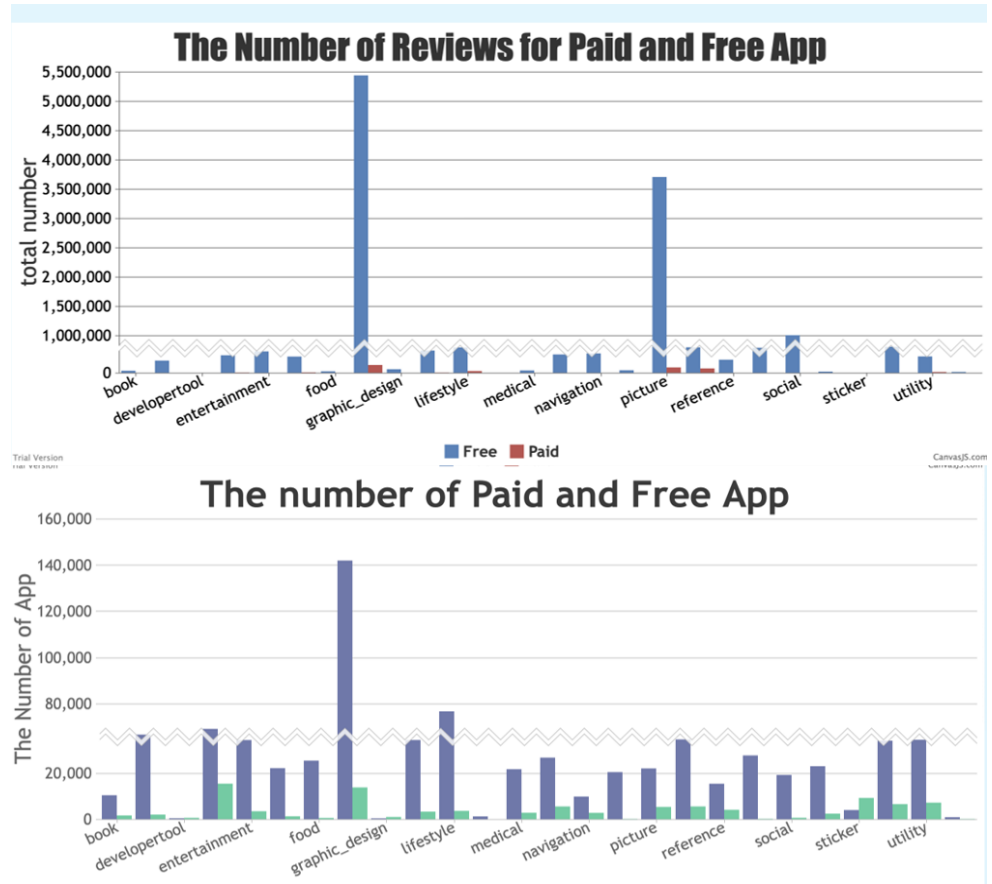
Description

```
<form name="form_check" method="post" action="select.php" align="center">
 <br>
 <table align="center">
   <tr align="center">
     <td align="center">
 <fieldset>
   <label><input type="checkbox" class="selectAllMembers"/>Select All</label>
     <label> <input type="checkbox" class='memberChk' name="category[]" value
     <label> <input type="checkbox" class='memberChk' name="category[]" value
     <label> <input type="checkbox" class='memberChk' name="category[]" value
```

IMPLEMENTATION

Result





DEBUGGING

Debugging

Problem

Name	Details	Type
name	Application name	String
category	Application category	String
rating	Application score rated by users on a scale of 5	Float
review	The number of reviews	Int
price	Application price	String
content_rating	Age of use for applications	String
volume	Application volume	String

Volume information is collected but never used
→ Seems really inefficient

Solution

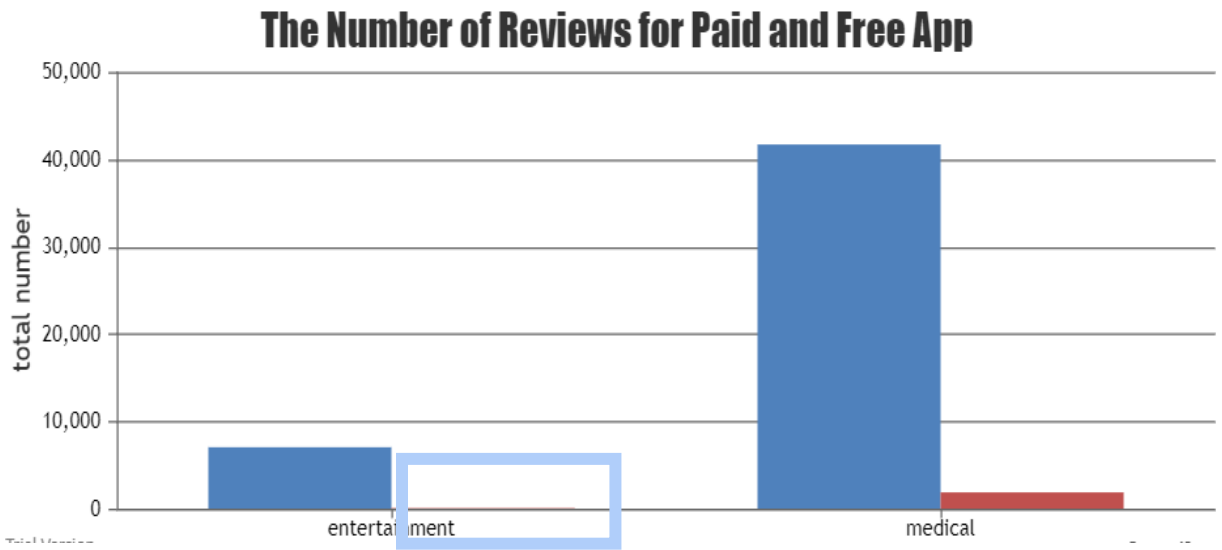
Name	Details	Type
name	Application name	String
category	Application category	String
rating	Application score rated by users on a scale of 5	Float
review	The number of reviews	Int
price	Application price	String
content_rating	Age of use for applications	String

Delete the **Volume column**

DEBUGGING

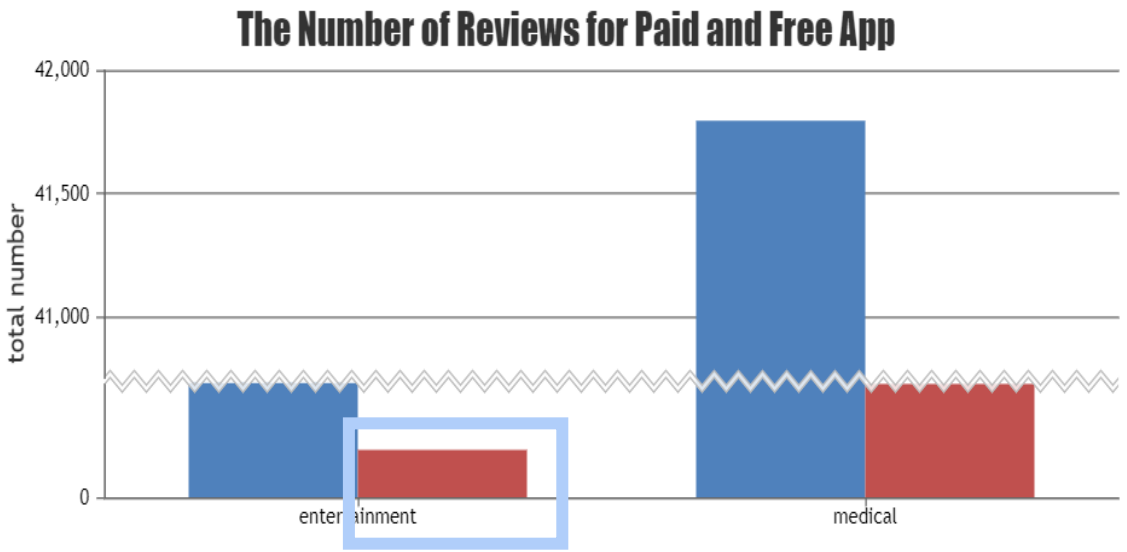
Debugging

Problem



The difference between two bars is **too high**
→ Hard to see the value

Solution



Shrink down the bars by using quantile
to make the charts clearly

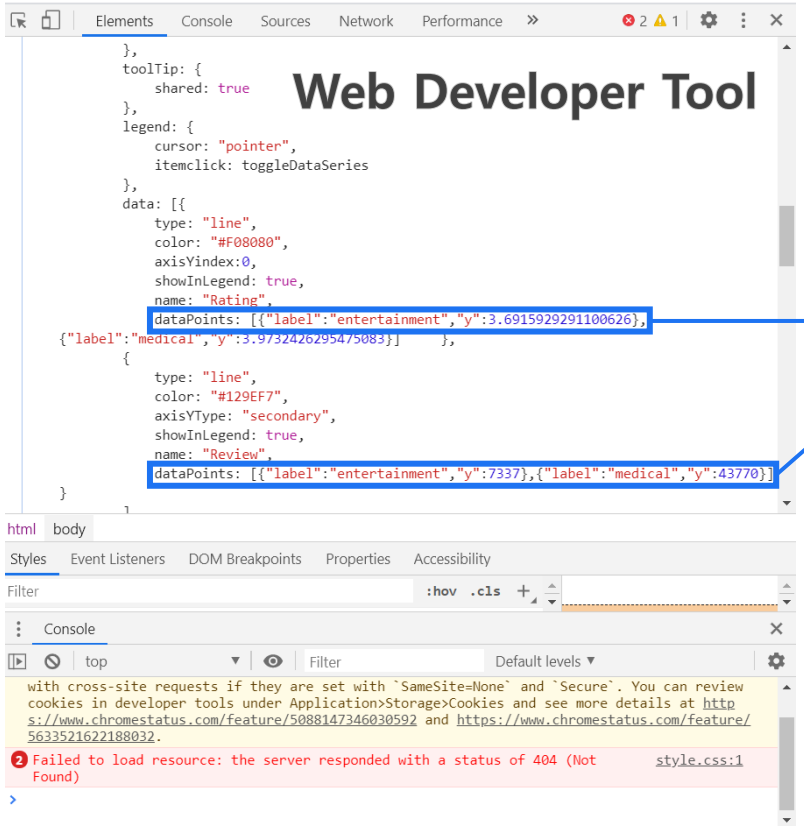
DEBUGGING

Debugging

Problem

In PHP Codes, it is hard to see the variables that are well allocated or not

Solution



Check the variables clearly

→ Can fix the wrong code partially

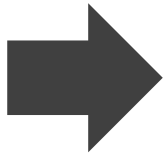
LIMITATION

Limitation

1. Data set change

Google Play

- Application information unrelated to Korea
- Old data (Data collected in 2015)
- Various available application information



- Use information related our country (Korea)
- Collect the data with crawling (Recent)
- Lack of some app information

2. Couldn't fully maximize use of Hadoop

APACHE Hadoop web connection failed
→ instead of it, we used dataset with **mySQL**

3. Missing crawling file

Some crawling files are missed
→ But still have enough data

WORK DISTRIBUTION

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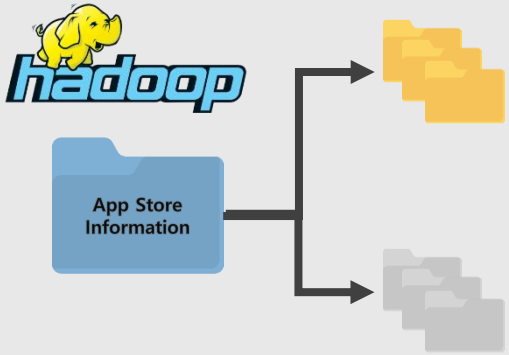

- Crawling app information about 7 categories
- With Hadoop, separated all collected Appstore information file

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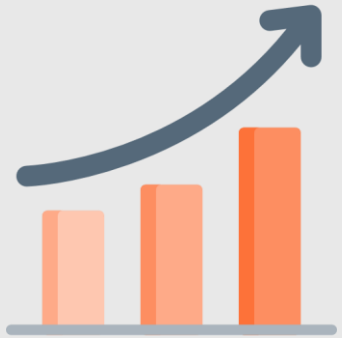

- Crawling app information about 7 categories
- Making PHP file about the bar graph.
- Implementing the checkbox

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- Crawling app information about 7 categories
- Making PHP file about pie chart, line graph.
- Integrate the all graphs

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- Crawling app information about 7 categories
- Making overall html design and powerpoint file

ENVIRONMENT SETTING

1. Create database ‘projectDB’
2. Create tables for each category like the schema

Name	Type
name	String
category	String
rating	Float
review	Int
price	String
content_rating	String

Table names

book, business, developertool, education, entertainment, finance, food, game, graphic_design, fitness, lifestyle, magazine, medical, music, navigation, news, picture, productivity, reference ,shopping, social, sports, sticker, travel, utility, weather

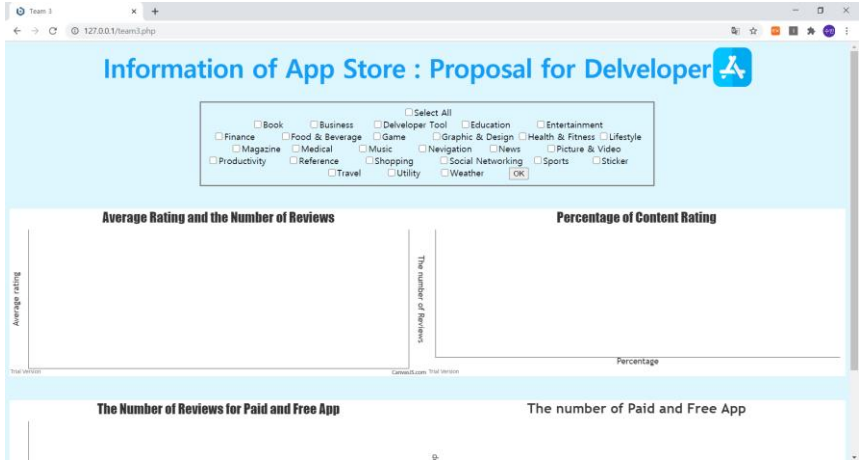
3. Load each text file to the table
4. Check the php file name (team3.php)

ENVIRONMENT SETTING

5. Using searching function, move to ‘setting’ part.
   Change hostname, username, and pw same as yours

```
//setting
$hostname = 'localhost'; #Your host name
$username = 'root'; #Your user name
$pw = '______'; #Your password
$db = 'projectDB';
```

6. Open ‘hostname/team3.php’ on your browser



THANK YOU!

감사합니다