

# OSS Part 2 Presentation

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Term Project

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# 01. Project Overview

Cats with diverse personalities  
and appearances.



## Project Name: IT-MBTI

### Philosophy

ITM students can explore their unique career traits in an easy and enjoyable way

“Understanding yourself and designing a better future!”

### Project Type

Web-based career exploration tool

: Accessible without installation, making collaboration and contribution easier

### Features

- **Career Aptitude Test:** Evaluate your aptitude for **7 IT career paths** through specific questions.
- **Personalized Results:** Recommend the most suitable IT career path based on your score.
- **Simple Question Format:** Users respond on a 5-point scale to express their preferences easily.
- **User-Friendly Interface:** Designed to be intuitive and easy for everyone to use.

# 01. Project Overview

## Basic Functionality

The screenshot shows the homepage of the IT-MBTI web application. At the top left is the logo 'IT-MBTI' with a cat icon. The top navigation bar includes 'Home', 'About', and 'Take the Test'. The main content area features a large white cat wearing glasses and working on a laptop, with the text 'What is your IT-MBTI?' above it. Below this is a paragraph describing the project as a web application for conducting an IT MBTI test. A 'Start' button is visible at the bottom left, and the text 'Test Starts' is displayed in red at the bottom right.

IT-MBTI

Home About Take the Test

What is your IT-MBTI?

This project is a web application for conducting an IT MBTI test, helping users discover their aptitudes and career paths in the IT field. With an intuitive UI and results page.

Start

Test Starts

Seoul National University of Science and Technology

ITM OSS PROJECT



menu bar

A modal window titled 'About IT-MBTI' is shown. It contains a description of the project's purpose, a 'Close' button in the top right corner, and a 'Developers' section listing several names. The IT-MBTI logo is also present.

About IT-MBTI

IT-MBTI helps you discover your ideal career path in the IT field through a personality-based career test. Answer a series of questions and find out if you're a Frontend Developer, Backend Developer, Data Analyst, or more!

Close

Developers

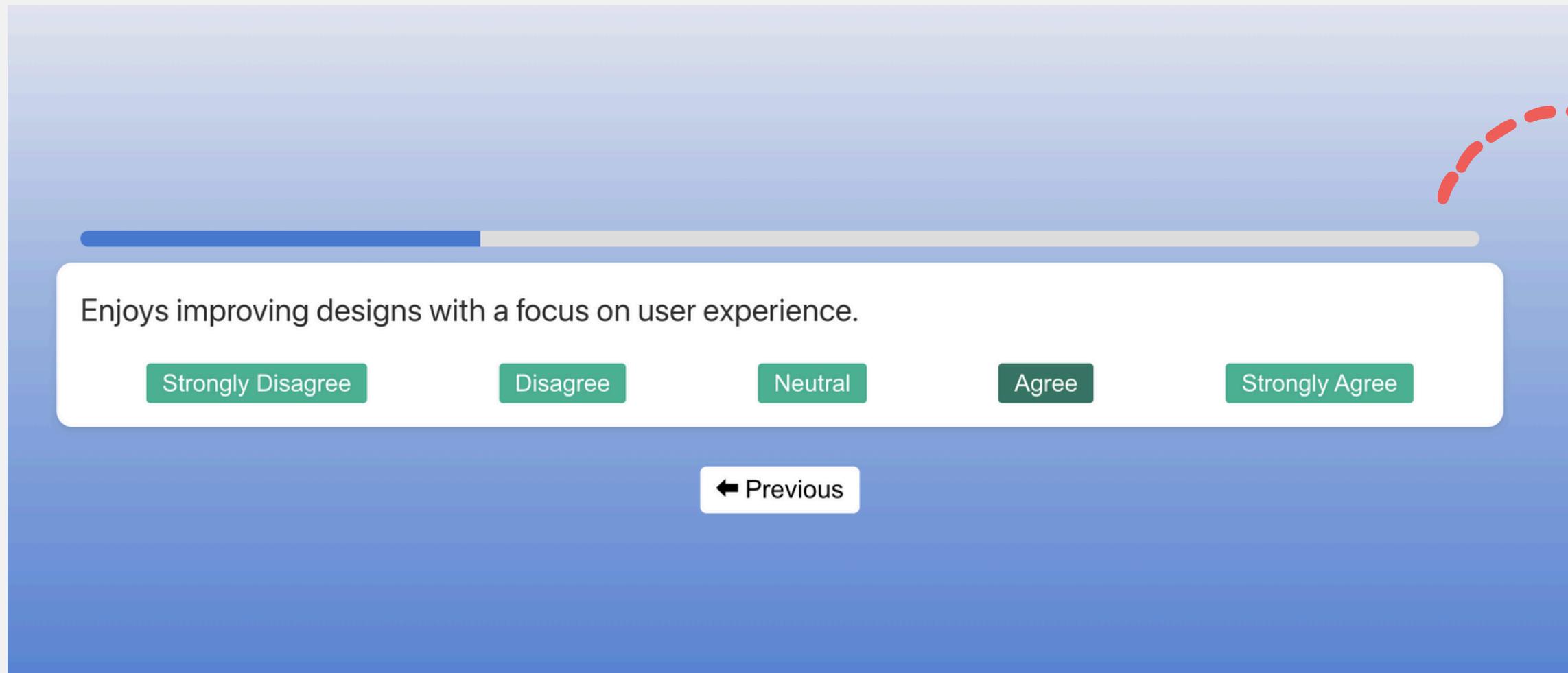
[23102003 Kim Doyi](#)  
[23102009 Park Shinhung](#)  
[23102015 Oh Eunyoung](#)  
[23102025 Lee Haneol](#)  
[23102031 Hwang Yuyoung](#)

IT-MBTI

“About” modal

# 01. Project Overview

## Basic Functionality



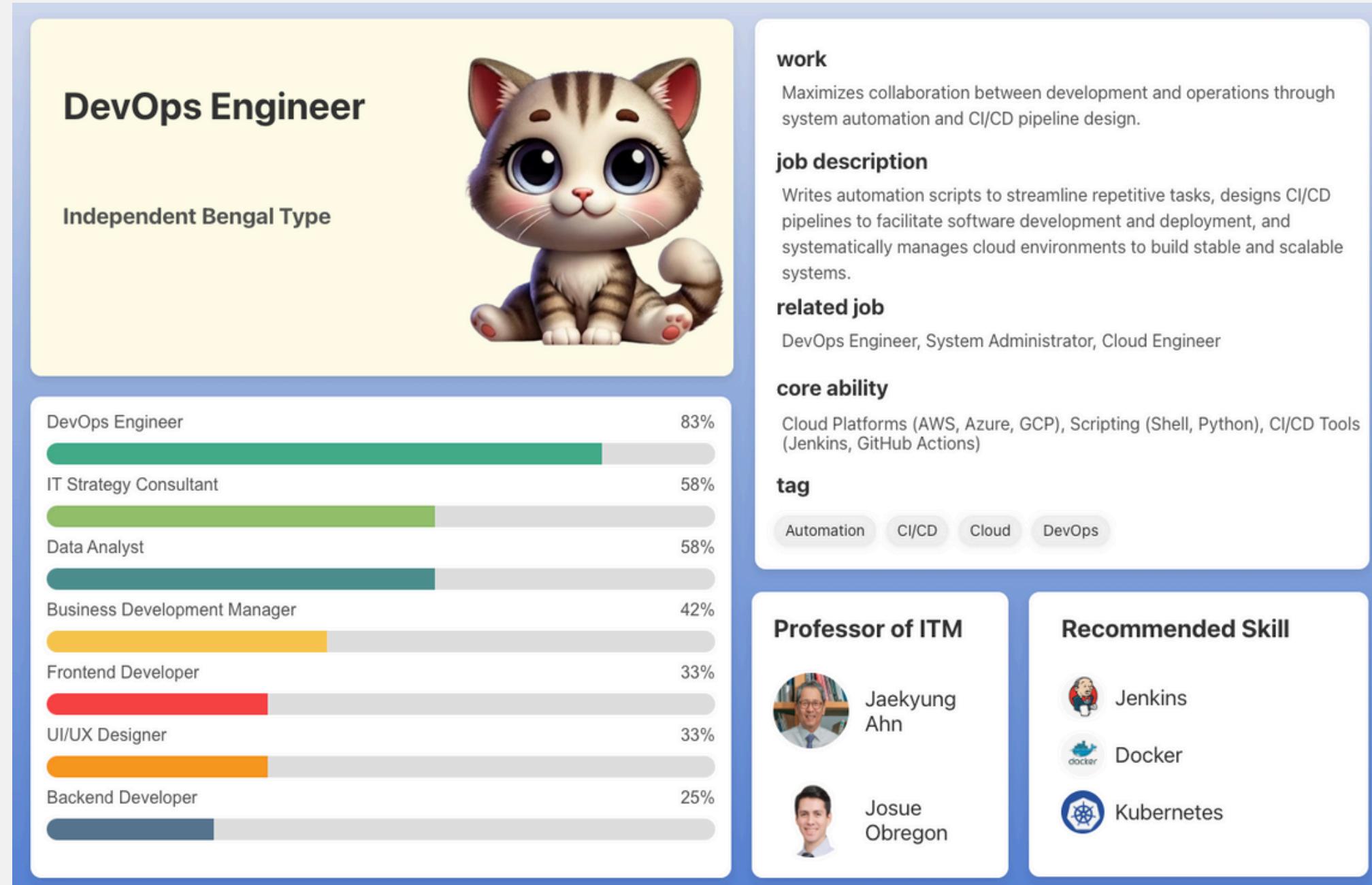
Progressbar  
: You can see the progress

provides 21 questions

# 01. Project Overview

## Basic Functionality

Job type and cute cat



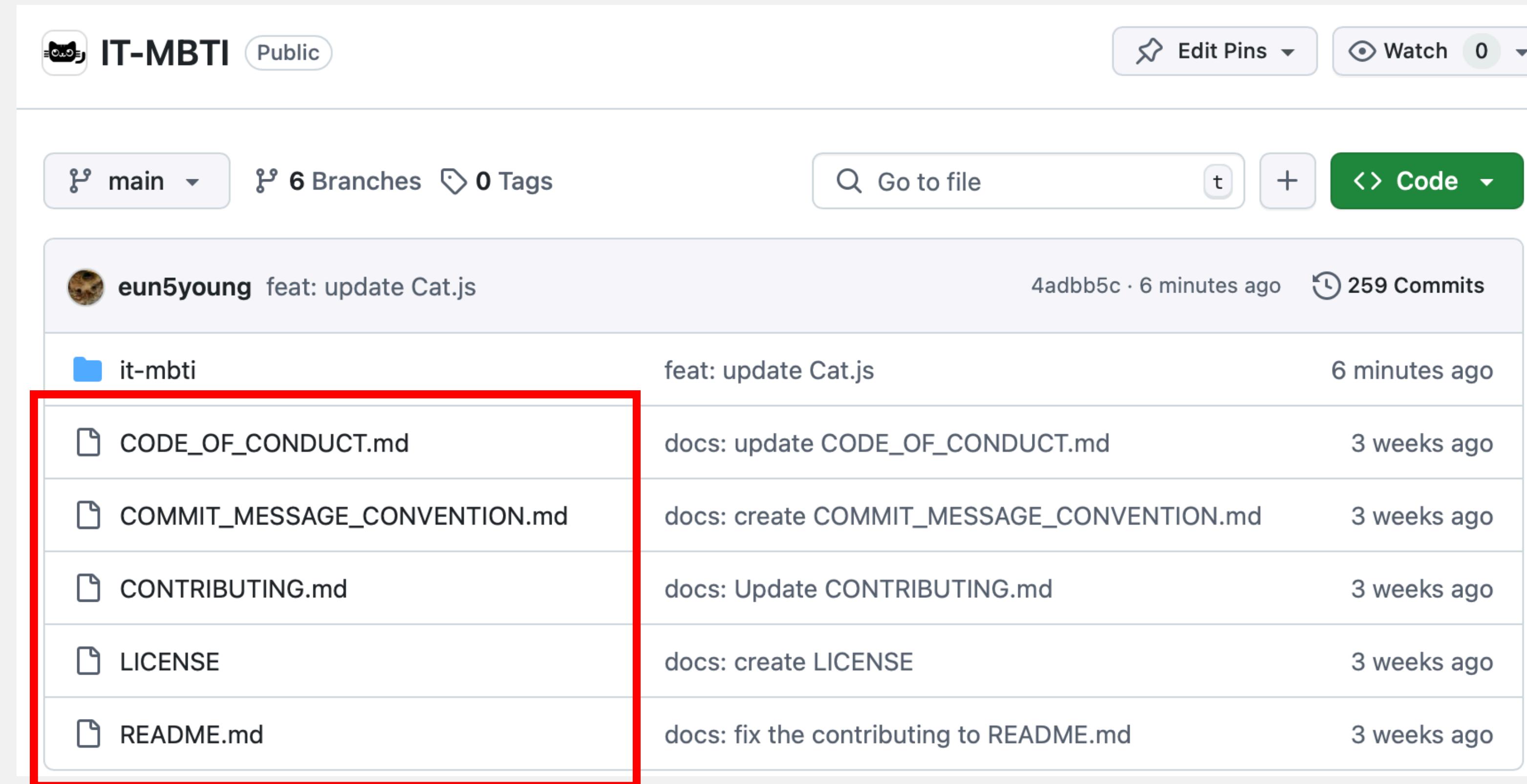
Detailed description of the type

Fit Graph for each type

Link the professor & skill

Show all types with the same score

## 02. Initial Commit



The screenshot shows a GitHub repository named "IT-MBTI". The repository is public and has 6 branches and 0 tags. The main branch is selected. There is a search bar for "Go to file" and buttons for "Edit Pins", "Watch", "Code", and "File". The repository was created by "eun5young" with the commit message "feat: update Cat.js". Below this, there is a list of files and their corresponding commit messages and times.

File	Commit Message	Time
feat: update Cat.js	4adbb5c · 6 minutes ago	259 Commits
it-mbtि	feat: update Cat.js	6 minutes ago
CODE_OF_CONDUCT.md	docs: update CODE_OF_CONDUCT.md	3 weeks ago
COMMIT_MESSAGE_CONVENTION.md	docs: create COMMIT_MESSAGE_CONVENTION.md	3 weeks ago
CONTRIBUTING.md	docs: Update CONTRIBUTING.md	3 weeks ago
LICENSE	docs: create LICENSE	3 weeks ago
README.md	docs: fix the contributing to README.md	3 weeks ago

# 02. Initial Commit

[CODE\\_OF\\_CONDUCT.md](#)

[COMMIT\\_MESSAGE\\_CONVENTION.md](#)

## Contributor Covenant Code of Conduct

### Our Pledge

We as contributors and maintainers pledge to make participation in our project and community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We commit to acting in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

## Contributing to IT-MBTI

We appreciate your interest in contributing to IT-MBTI!

Contributions are what make open-source projects great.

This document will guide you through the process.

### 🛠 Contributing Pull Requests

1. Fork the repository:

Click the "Fork" button on the top-right corner of the repository page on GitHub.

## Commit Message Convention

### Commit Message Format

<Type>: Short description (fix #1234) 

Longer description here if necessary

BREAKING CHANGE: only contain breaking change

- Any line of the commit message cannot be longer 100 characters!

MIT License

Copyright (c) 2024-present IT-MBTI and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

[CONTRIBUTING.md](#)

[LICENSE](#)

# 02. Initial Commit

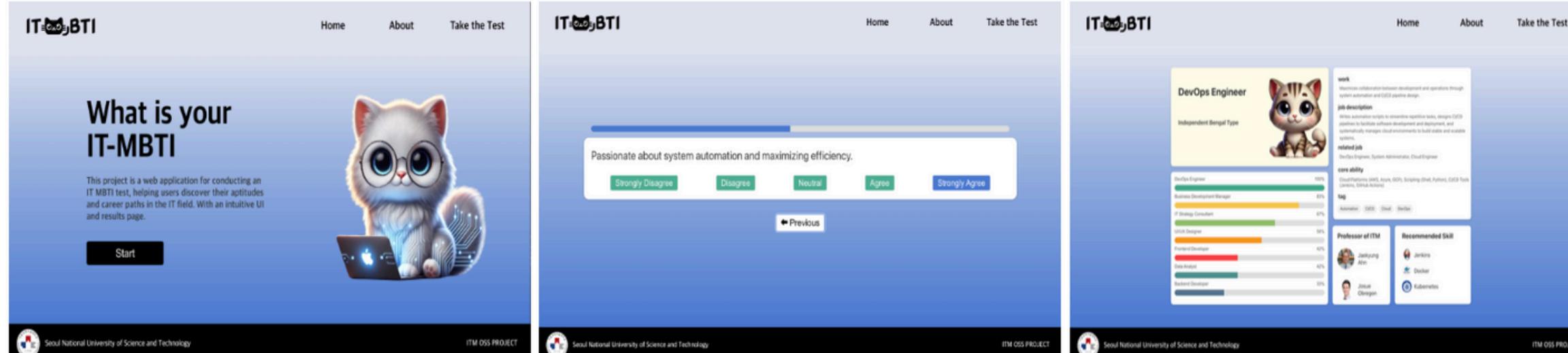
## README.md

README    Code of conduct    MIT license



## IT-MBTI

IT-MBTI is a tool that analyzes the user's answers based on the MBTI test format and recommends the best career path in the IT field.



This project is a web application for conducting an IT MBTI test, helping users discover their aptitudes and career paths in the IT field. With an intuitive UI and results page.

Start

Passionate about system automation and maximizing efficiency.

Strongly Disagree Disagree Neutral Agree Strongly Agree

◀ Previous

**DevOps Engineer**  
Independent Bengal Type

**work**  
Manages collaboration between development and operations through system automation and CI/CD pipeline design.

**job description**  
Responsible for managing projects to maximize repetitive tasks, design CI/CD pipelines to facilitate software development and deployment, and systematically manage cloud environments to build stable and reliable systems.

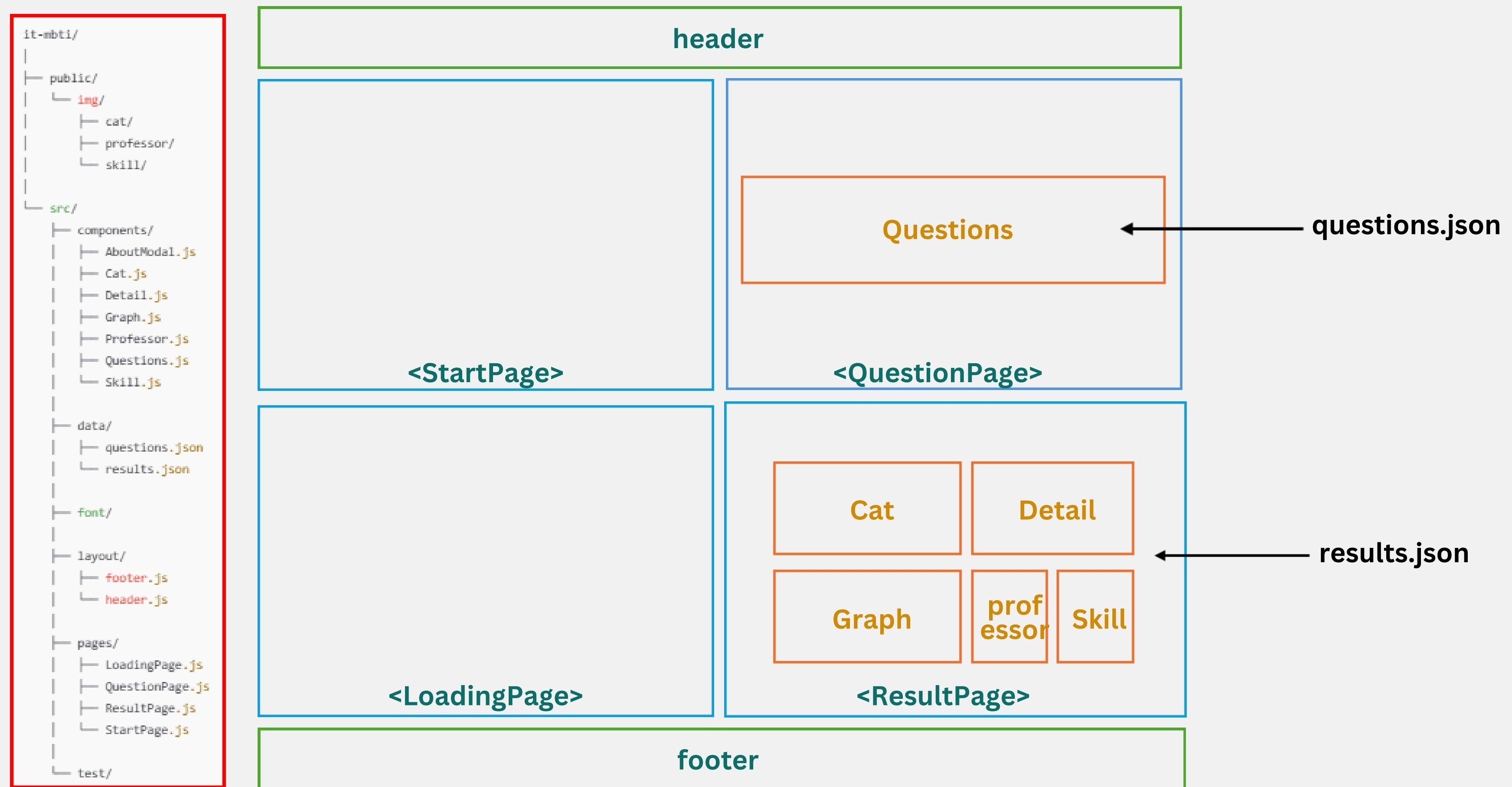
**related job**  
DevOps Engineer, System Administrator, Cloud Engineer

**core ability**  
CloudPlatform (AWS, Azure, GCP), Scripting (Shell, Python, YAML), CI/CD Pipeline, Jenkins, Ansible, Docker, Kubernetes

**Professor of ITM**  
Jaebyung Ahn

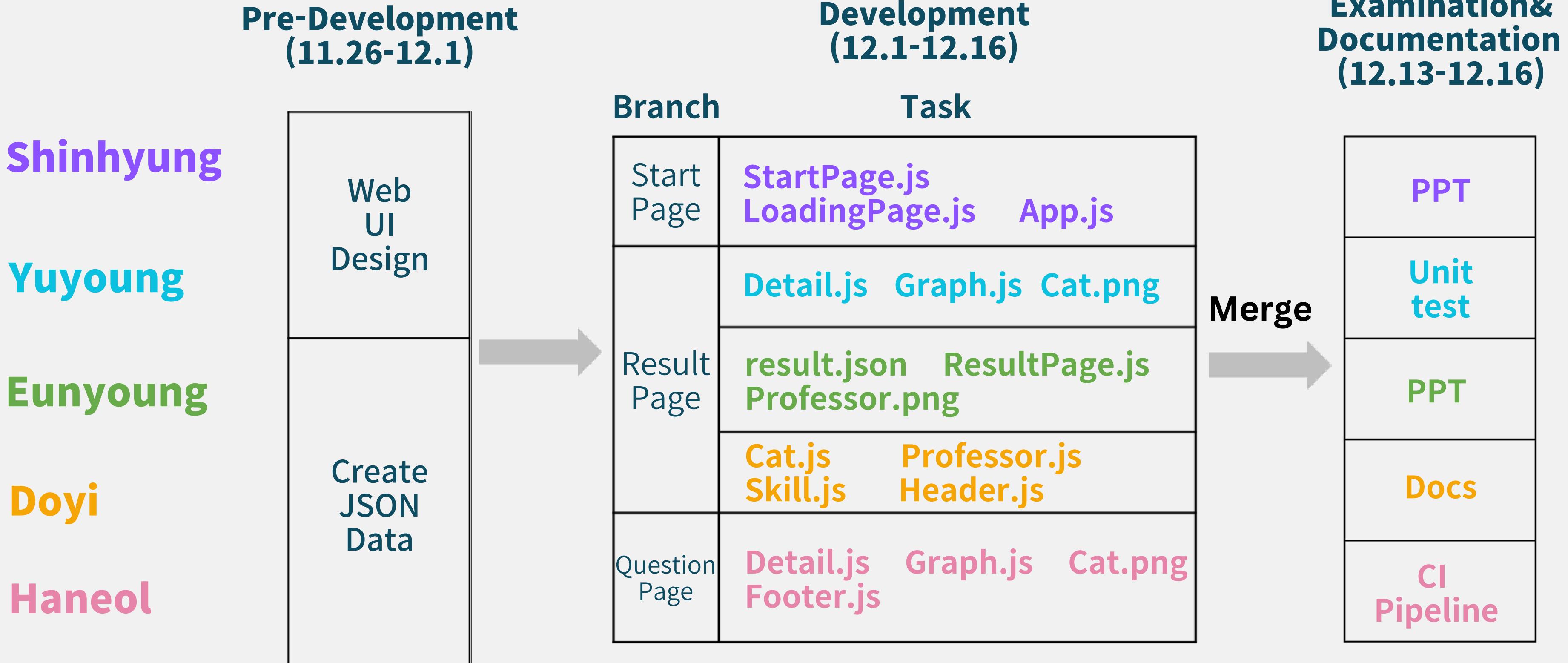
**Recommended Skill**  
Ansible, Docker, Kubernetes, Jenkins, OpenShift

## 02. Initial Commit



# 03. Team Member Contributions

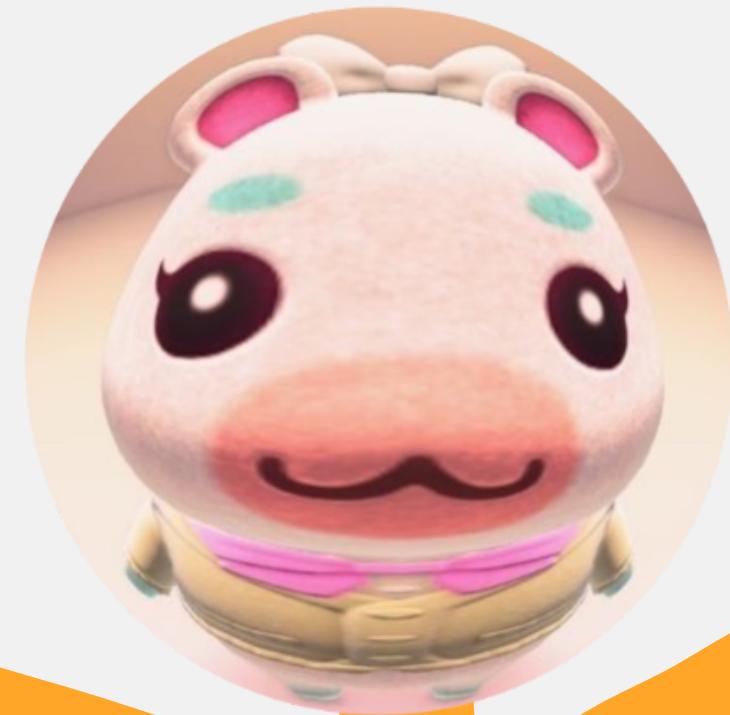
## 1. Role



# 03. Team Member Contributions

2. Commits

65  
Haneol



1

41  
Shinhyung



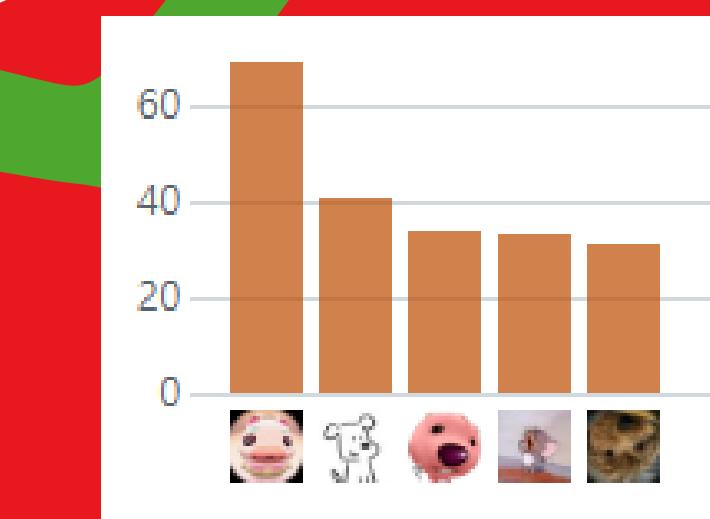
2

33  
Doyi



4

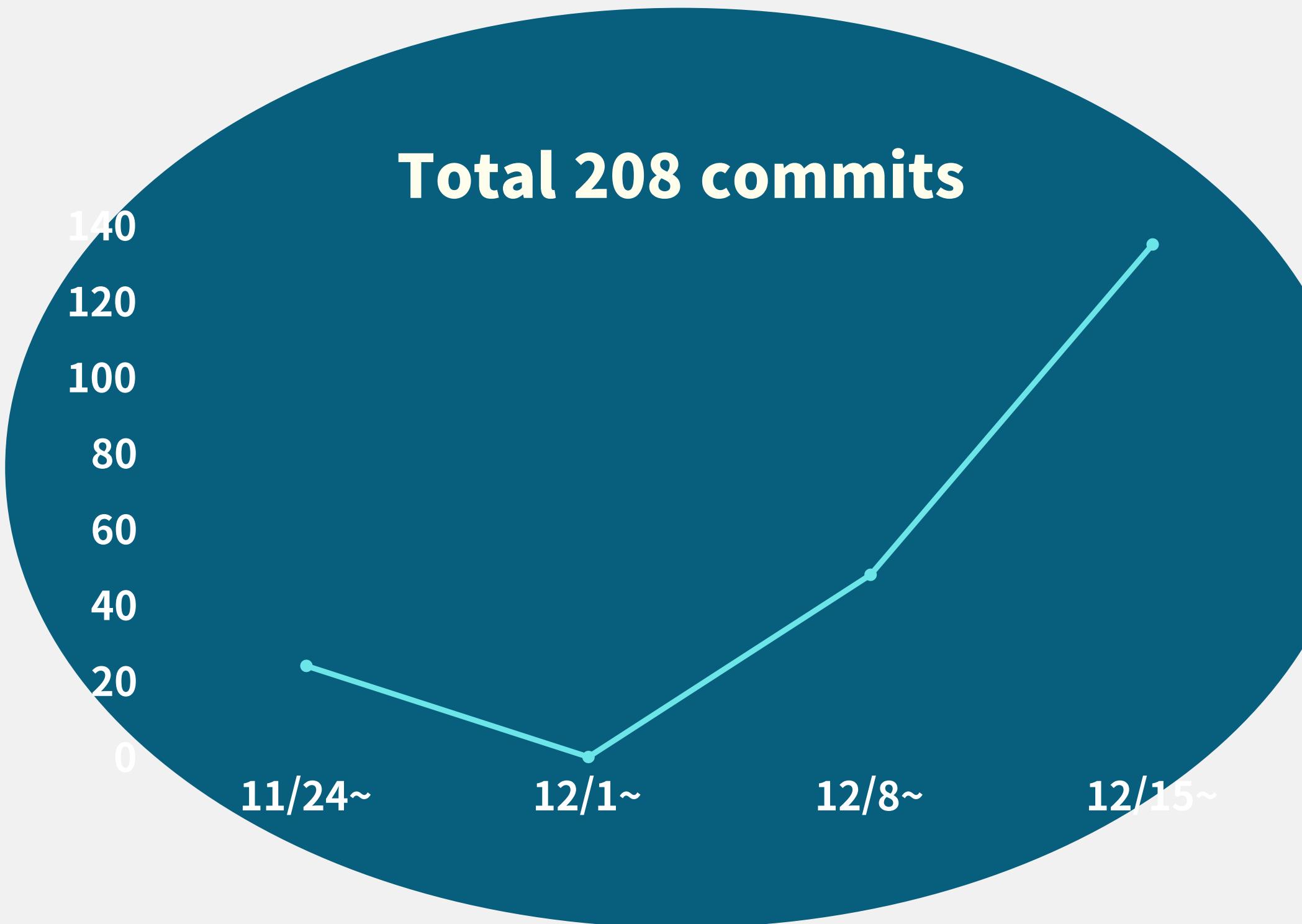
34  
Yuyoung



Made by Eunyoung

# 04. Repository Statistics and Visualization

## 1. Commits



303 Commits

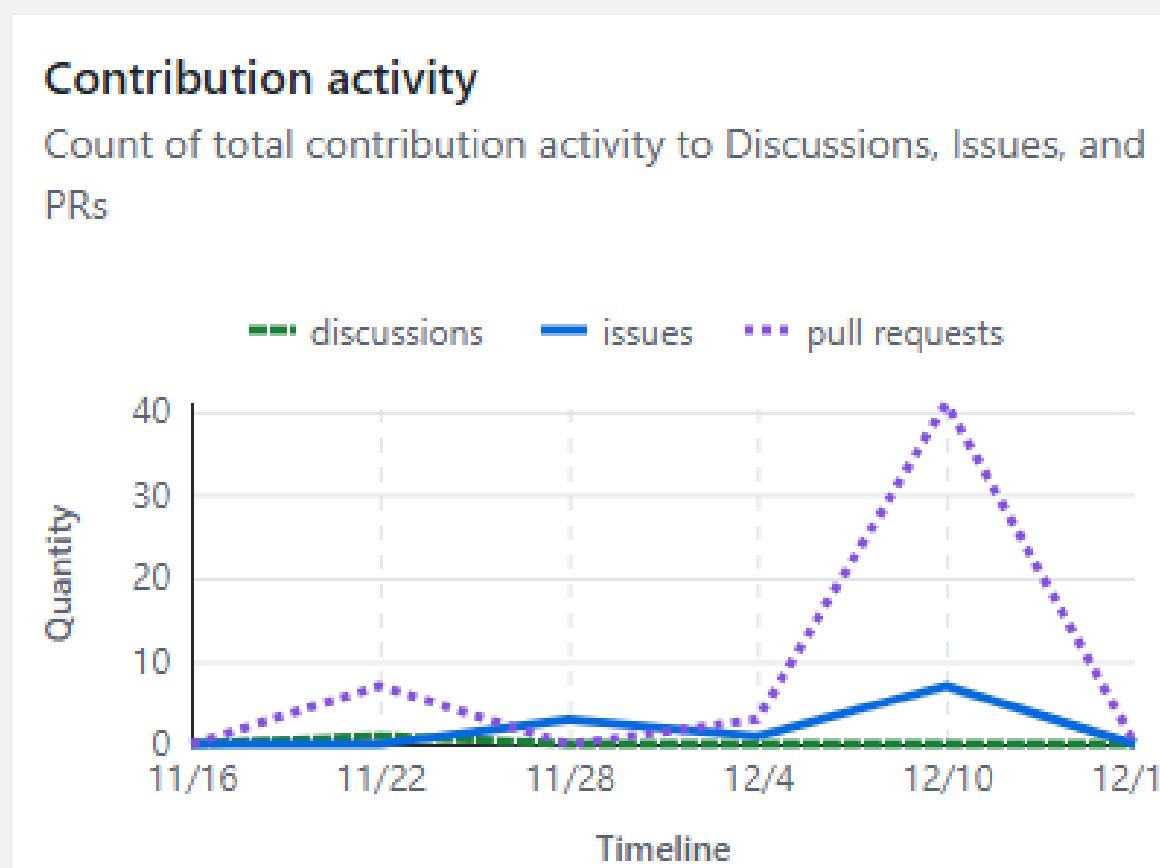
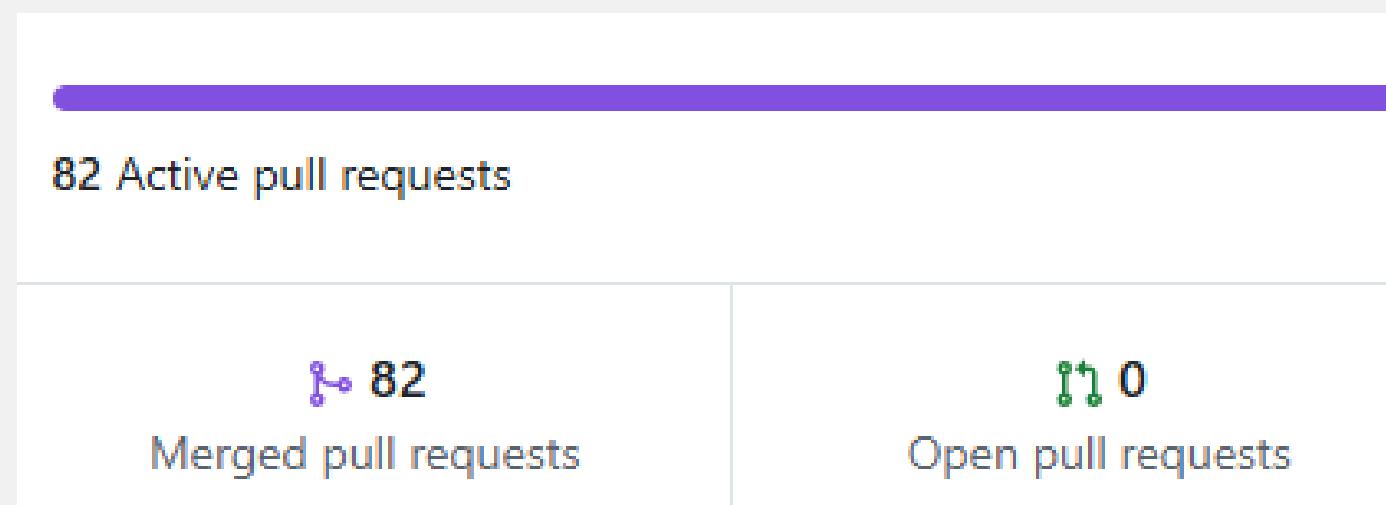
Excluding merges, 5 authors have pushed 208 commits to main and 208 commits to all branches. On main, 0 files have changed and there have been 0 additions and 0 deletions.

**Total commits: 208**  
**Average commits:  $208 / 24 = 8$**

# 04. Repository Statistics and Visualization

## 2. Pull requests

Total Pull requests: 82



feat: update3 detail.js #33

Merged shinh09 merged 2 commits into OSS-TeamProjectt:develop-ResultPage from yuyoung924:main 2 days ago

Conversation 1 Commits 2 Checks 0 Files changed 2

yuyoung924 commented 2 days ago  
1. I updated detail code! Please check it!

yuyoung924 added 2 commits 2 days ago  
feat: update3 detail.js  
feat: create Graph.js

shinh09 commented 2 days ago  
Thank you for your hard work. I checked and there's nothing wrong. I'll merge it

shinh09 merged commit 34eca2a into OSS-TeamProjectt:develop-ResultPage 2 days ago

Revert

This section shows a detailed view of a specific pull request titled "feat: update3 detail.js #33". It was merged by shinh09 2 days ago. The pull request has 1 conversation, 2 commits, 0 checks, and 2 files changed. The conversation history includes comments from yuyoung924 and shinh09, and a merge commit message from shinh09.

# 04. Repository Statistics and Visualization

## 3. Issues

Total Issues: 12

12 Active issues

10 Closed issues

2 New issues

Open: 2 | Closed: 10

Idea Suggestion for [Brief Feature Description] good first issue idea  
#60 opened yesterday by yuyoung924

Diverse Field Data Ideas good first issue idea  
#28 opened 5 days ago by shinh09

shinh09 commented 5 hours ago

The percentage should be marked 0 when there is no score in the Graph component, but the function is failing in the unit test.

Test Suites: 2 failed, 3 passed, 5 total  
Tests: 1 failed, 13 passed, 14 total  
Snapshots: 0 total  
Time: 1.708 s  
Ran all test suites.

Graph Component > If there is no score, make sure the percentage is displayed as 0

shinh09 added the bug label 5 hours ago

han3o1 commented 5 hours ago • edited

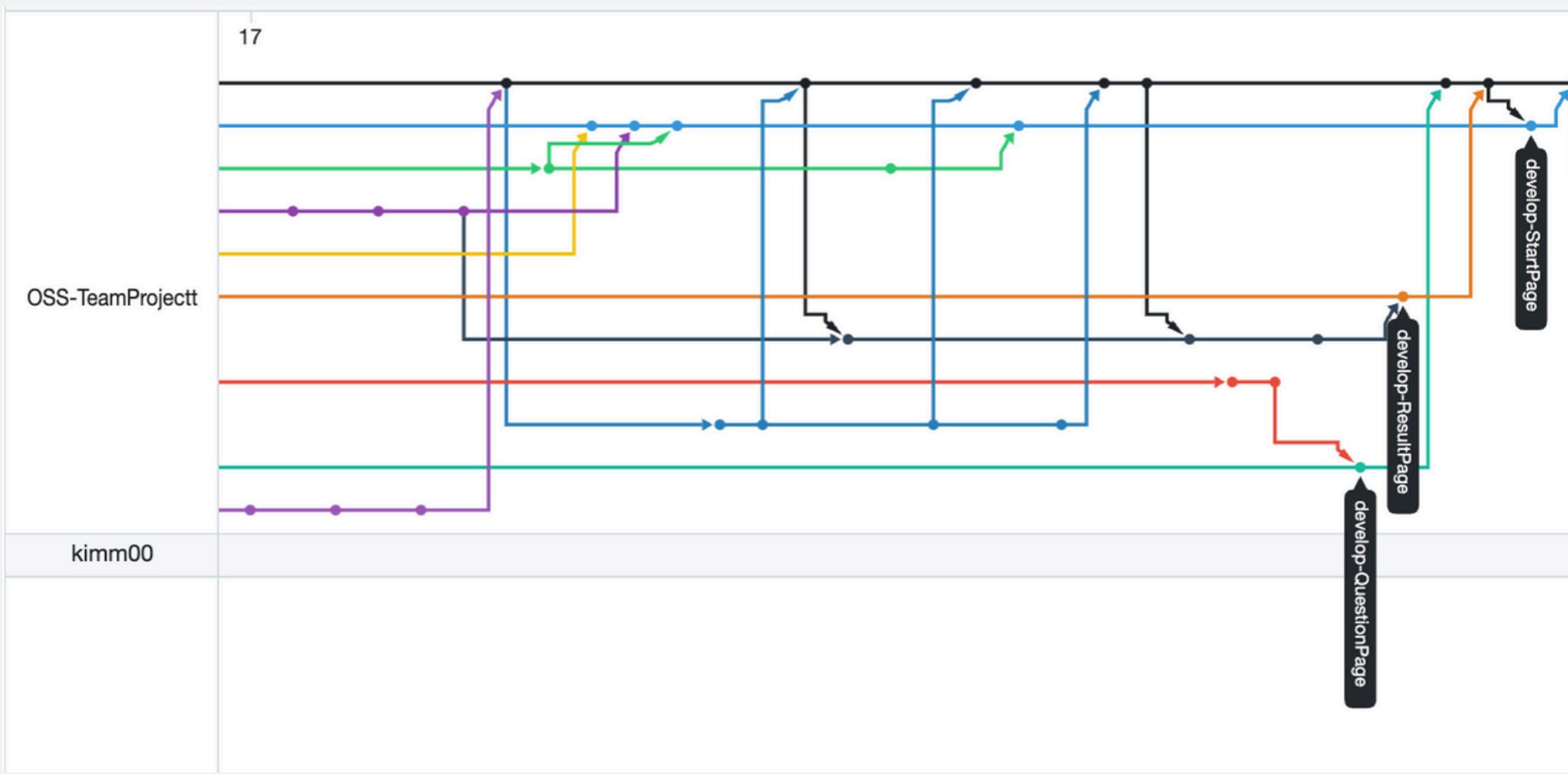
I've tried several modifications but none of them worked well. ㅠㅠ  
Here is my recent try.

```
function Graph({ scores }) {  
  const maxScorePerType = 30;  
  const graphData = scores.map(([type, score]) => {  
    const percentage = Math.round((score / maxScorePerType) * 100);  
    return {  
      label: type,  
      percentage: percentage,  
      color: fixedColors[type],  
    };  
  });  
}
```

I think we need to modify it outside of the Graph.js file.

# 04. Repository Statistics and Visualization

## 4. Branch



Forked repository

1. **develop-StartPage**
2. **develop-QuestionPage**
3. **develop-ResultPage**

Main

# 05. Testing and CI Pipeline

## 1. Unit tests

```
src
  components
    AboutModal.js
    Cat.js
    Detail.js
    Graph.js
    Professor.js
    Questions.js
    Skill.js
  layout
    footer.js
    header.js
  pages
    LoadingPage.js
    QuestionPage.js
    ResultPage.js
    StartPage.js
```

>>

```
test
  components
    AboutModal.test.js
    Cat.test.js
    Detail.test.js
    Graph.test.js
    Professor.test.js
    Question.test.js
    Skills.test.js
  layout
    footer.test.js
    header.test.js
  pages
    LoadingPage.test.js
    QuestionPage.test.js
    ResultPage.test.js
    StartPage.test.js
```

original files

test files

```
Test Suites: 13 passed, 13 total
Tests:       41 passed, 41 total
Snapshots:   0 total
Time:        5.686 s, estimated 6 s
Ran all test suites.
```

# 05. Testing and CI Pipeline

## 2. CI pipeline

**node.js.yml**  
on: push

**Matrix: build**

**2 jobs completed**

[Show all jobs](#)

**Test Suites:** 13 passed, 13 total  
**Tests:** 41 passed, 41 total  
**Snapshots:** 0 total  
**Time:** 8.547 s  
Ran all test suites.

**Run time**  
Learn about OS pricing on GitHub Actions

**Job**

**build (20.x)**

**build (22.x)**

**build (22.x)**  
succeeded 1 minute ago in 50s

- > Set up job
- > Run actions/checkout@v4
- > Use Node.js 22.x
- > Install dependencies
- > Build the project
- > Build the project
- > Run tests
- > Post Use Node.js 22.x
- > Post Run actions/checkout@v4
- > Complete job

# 06. Project Demo

## Set Up

Follow the instructions below to set up the project and run it locally:

```
$ git clone https://github.com/OSS-TeamProjecttt/IT-MBTI.git  
$ cd it-mbt  
$ npm install  
$ npm start
```



# 07. Challenges and Solutions

## 1. Raising issues through the Issue Tab

Error in the results provided by the result page #59

Closed eun5young opened this issue 2 days ago · 1 comment

eun5young commented 2 days ago • edited

I tested our project, and it was amazing! 😊

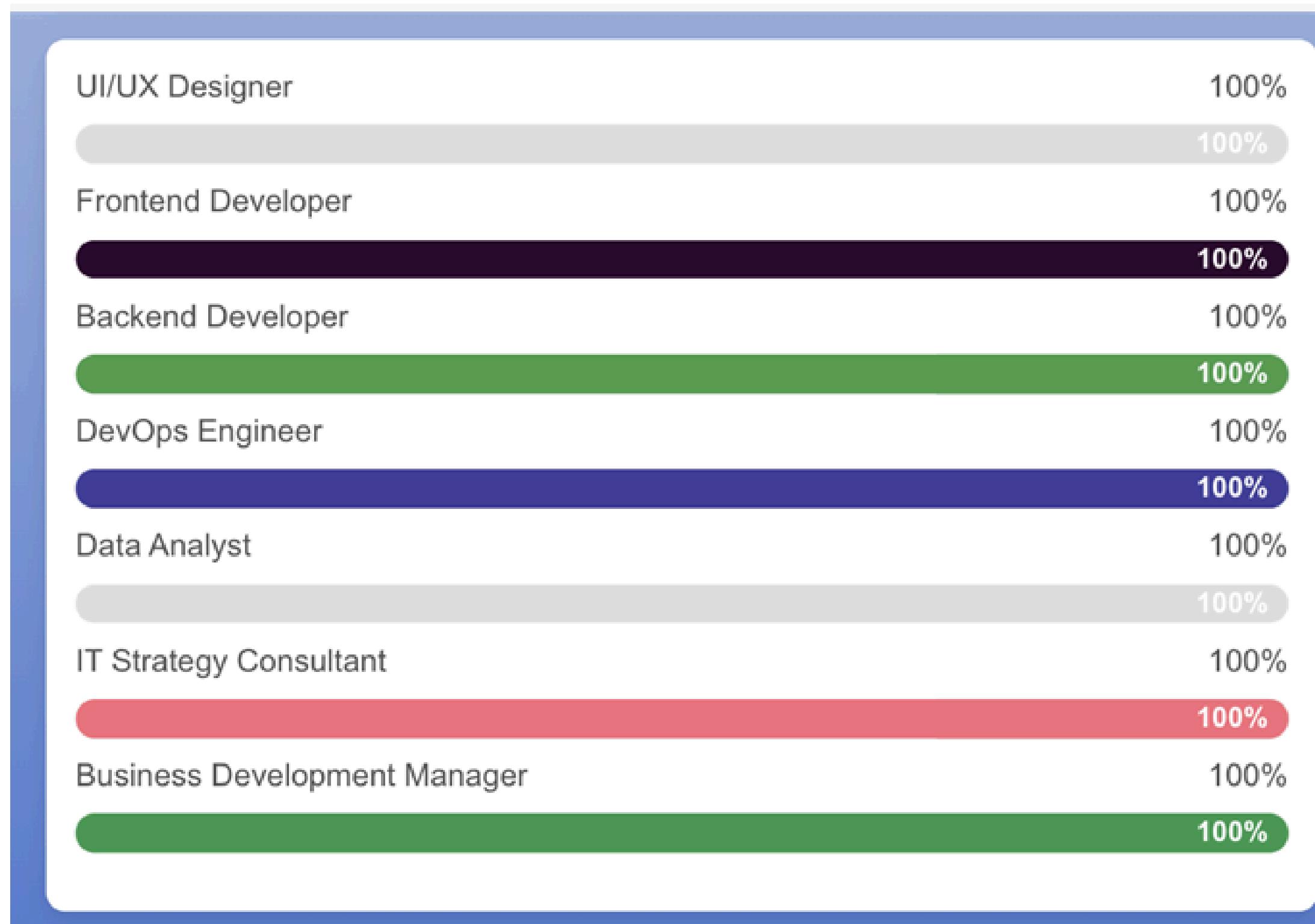
However, I discovered one issue. When I tested it, I selected "Strongly Agree" for all the questions. Despite this, the results did not show each type's percentage as 100%, as seen in the image below. It seems there might be an error in the part of the code that calculates the proportions for each type in the test results.

The screenshot shows a GitHub issue page with a dark theme. The title is "Error in the results provided by the result page #59". A purple button indicates the issue is "Closed". Below the title, it says "eun5young opened this issue 2 days ago · 1 comment". A comment from "eun5young" is shown, with a timestamp of "commented 2 days ago • edited". The comment text reads: "I tested our project, and it was amazing! 😊 However, I discovered one issue. When I tested it, I selected "Strongly Agree" for all the questions. Despite this, the results did not show each type's percentage as 100%, as seen in the image below. It seems there might be an error in the part of the code that calculates the proportions for each type in the test results." Below the comment, there is a screenshot of a bar chart. The chart has four categories listed vertically: "UI/UX Designer", "Frontend Developer", "Backend Developer", and another category whose name is partially visible. Each category has a horizontal bar extending to the right, with the percentage value "14%" displayed at the end of each bar. The bars are colored teal, magenta, blue, and grey respectively.

Category	Percentage
UI/UX Designer	14%
Frontend Developer	14%
Backend Developer	14%
Other	14%

# 07. Challenges and Solutions

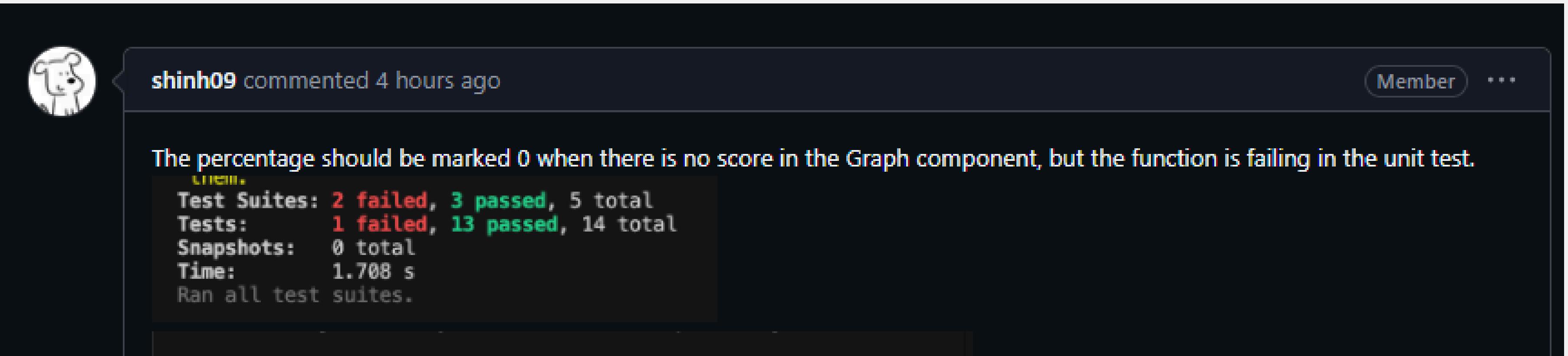
## 2. Solving Issue



-  han3o1 authored 4 hours ago  
**feat: update Graph.js**
-  han3o1 authored 4 hours ago  
**bug: update Graph.js**
-  han3o1 authored 5 hours ago  
**bug: update Graph.js**
-  han3o1 authored 5 hours ago  
**bug: update Graph.js**
-  han3o1 authored 5 hours ago  
**feat: update Graph.js**
-  kimm00 committed 5 hours ago  
**bug: update Graph.js**
-  han3o1 authored 5 hours ago  
**bug: update Graph.js**
-  han3o1 authored 5 hours ago  
**bug: update Graph.js**
-  han3o1 authored 5 hours ago  
**bug: update Graph.js**

# 07. Challenges and Solutions

## 3. Checking Unit Test



shinh09 commented 4 hours ago

The percentage should be marked 0 when there is no score in the Graph component, but the function is failing in the unit test.

```
Test Suites: 2 failed, 3 passed, 5 total
Tests: 1 failed, 13 passed, 14 total
Snapshots: 0 total
Time: 1.708 s
Ran all test suites.
```

Member ...

This screenshot shows a GitHub pull request comment from a user named shinh09. The comment discusses a failing unit test. The test results are displayed in a dark box:  
Test Suites: 2 failed, 3 passed, 5 total  
Tests: 1 failed, 13 passed, 14 total  
Snapshots: 0 total  
Time: 1.708 s  
Ran all test suites.

- Graph Component > If there is no score, make sure the percentage is displayed as 0

→ We have solved these issues, but new issues raise

# 07. Challenges and Solutions

## 4. Raising another issue through the Issue Tab

Percentage Calculation Bug on Result Page #69

Open kimm00 opened this issue yesterday · 3 comments

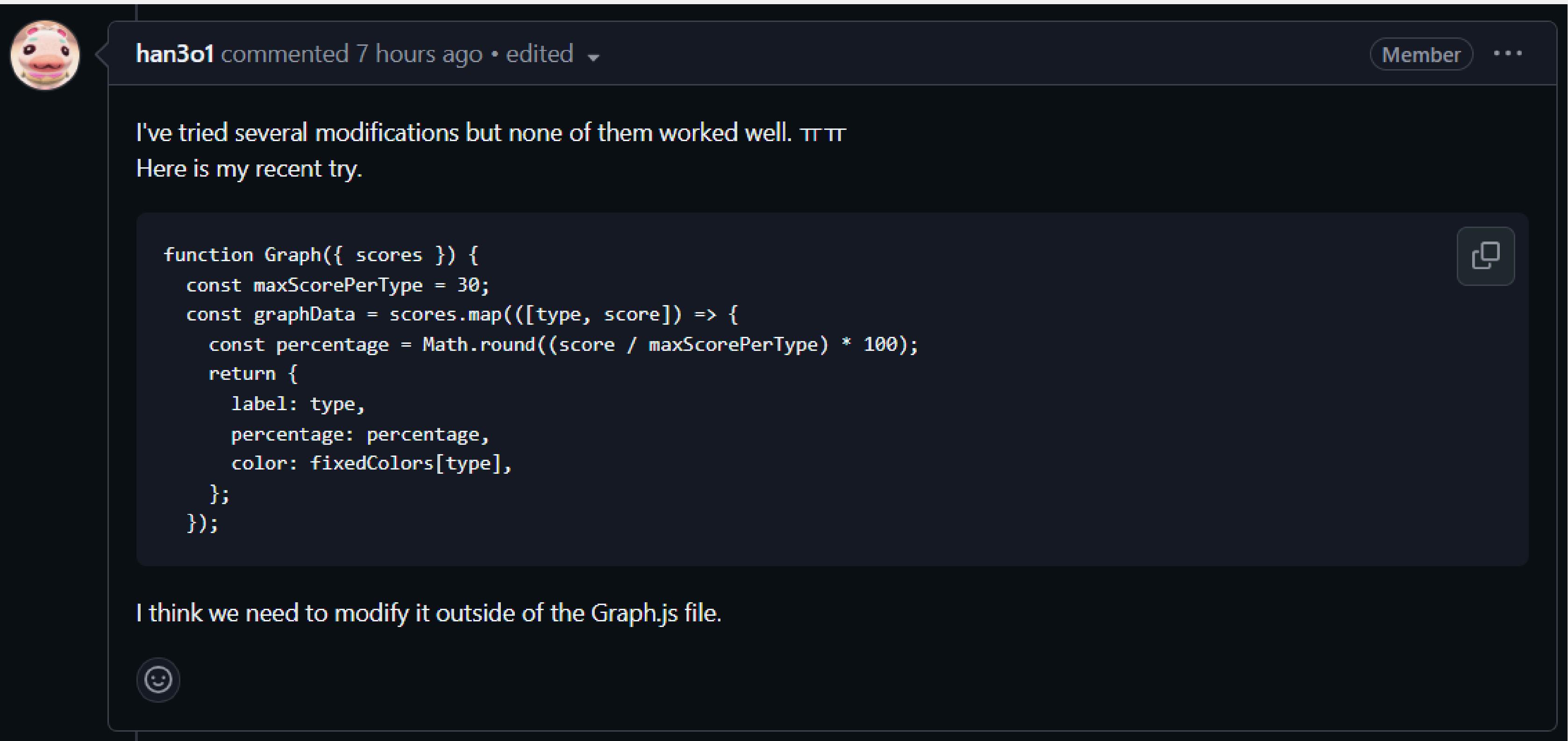
kimm00 commented yesterday Member ...

In the current code, when calculating the total score, the percentage of each type of score is incorrect when calculating the percentage. This results in an error where if all the questions were answered neutral, the total should be 50% but 60% is output. What should we do??

Smiley face icon

# 07. Challenges and Solutions

## 5. Trial and error



han3o1 commented 7 hours ago • edited

I've tried several modifications but none of them worked well. TTT  
Here is my recent try.

```
function Graph({ scores }) {
  const maxScorePerType = 30;
  const graphData = scores.map(([type, score]) => {
    const percentage = Math.round((score / maxScorePerType) * 100);
    return {
      label: type,
      percentage: percentage,
      color: fixedColors[type],
    };
  });
}
```

I think we need to modify it outside of the Graph.js file.

# 07. Challenges and Solutions

## 6. Solving Issue

han3o1 commented 4 hours ago

Member ...

**Frontend Developer**

Cool-Headed Oriental Shorthair Type



**work**  
Build intuitive and user-friendly interfaces with flexible thinking.

**job description**  
Develops user interfaces (UI) for websites and applications, ensuring seamless integration with backend systems. Applies responsive web design to provide optimal user experiences across various devices.

**related job**  
Frontend Developer, Web Developer, UI Engineer

**core ability**  
Framework Proficiency, Responsive Design Implementation

**tag**  
Programming, Web development, UI, Responsive Design

Frontend Developer 0%  
UI/UX Designer 0%  
Business Development Manager 0%  
IT Strategy Consultant 0%  
DevOps Engineer 0%  
Data Analyst 0%  
Backend Developer 0%

**Professor of ITM**  
Wooja Kim  
 Younghaon Lee  


**Recommended Skill**

-  React
-  JavaScript
-  HTML/CSS

Now I resolves an issue of percentage calculations!!

```
return (
  <QuestionContainers>
    <QuestionText>{questionText}</QuestionText>
    <OptionsContainers>
      <OptionButton $isSelected={selectedOption === 1} onClick={() => handleClick(8)}>
        Strongly Disagree
      </OptionButton>
      <OptionButton $isSelected={selectedOption === 2} onClick={() => handleClick(2.5)}>
        Disagree
      </OptionButton>
      <OptionButton $isSelected={selectedOption === 3} onClick={() => handleClick(5)}>
        Neutral
      </OptionButton>
      <OptionButton $isSelected={selectedOption === 4} onClick={() => handleClick(7.5)}>
        Agree
      </OptionButton>
      <OptionButton $isSelected={selectedOption === 5} onClick={() => handleClick(10)}>
        Strongly Agree
      </OptionButton>
    </OptionsContainers>
  </QuestionContainers>
);
```

Please refer to the code!

# 07. Challenges and Solutions

## 6. Solving Issue

**Before**

Enjoys improving designs with a focus on user experience.

Strongly Disagree

Disagree

Neutral

Agree

Strongly Agree

**1**

**2**

**3**

**4**

**5**

# 07. Challenges and Solutions

## 6. Solving Issue

**After**

Enjoys improving designs with a focus on user experience.

Strongly Disagree

Disagree

Neutral

Agree

Strongly Agree

0

2.5

5

7.5

10

# 07. Challenges and Solutions

## 6. Solving Issue



# 07. Challenges and Solutions

## 7. Finally, Passed Unit Test!!

```
PASS  src/test/components/Graph.test.js
  Graph Component
    ✓ Verify that components are rendered normally (14 ms)
      ✓ Verify the percentage is displayed correctly based on the score (2 ms)
      ✓ If there is no score, make sure the percentage is displayed as 0% (3 ms)
      ✓ Verify that a component is empty when it is in an empty score array (1 ms)

  Test Suites: 1 passed, 1 total
  Tests:        4 passed, 4 total
  Snapshots:   0 total
  Time:         0.536 s, estimated 1 s
  Ran all test suites matching /Graph.test.js/i.
```

# 08. Conclusion

**What I learned from the project**



**Active communication!!**



**Understanding the whole,  
not part of the project!**

# 08. Conclusion

## You can use and contribute

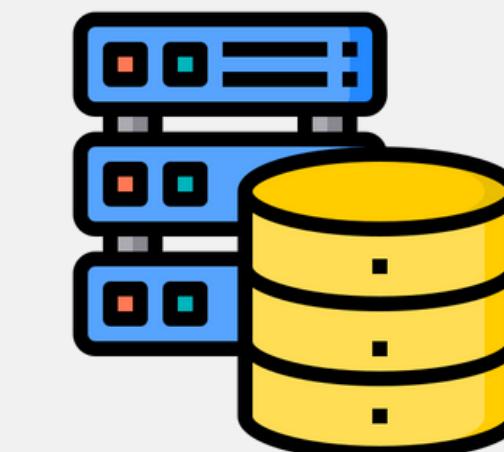
- Diverse Field Data Ideas good first issue idea

#28 opened 5 days ago by shinh09

- Idea Suggestion for [Brief Feature Description] good first issue idea

#60 opened yesterday by yuyoung924

## In the future...



Backend Implementation and API Server  
Setup, DB Management  
**Developing a dynamic, scalable, and  
secure system.**



# Q & A

