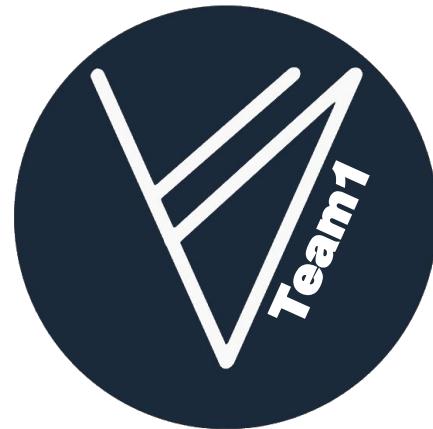


# Proposal Pitch

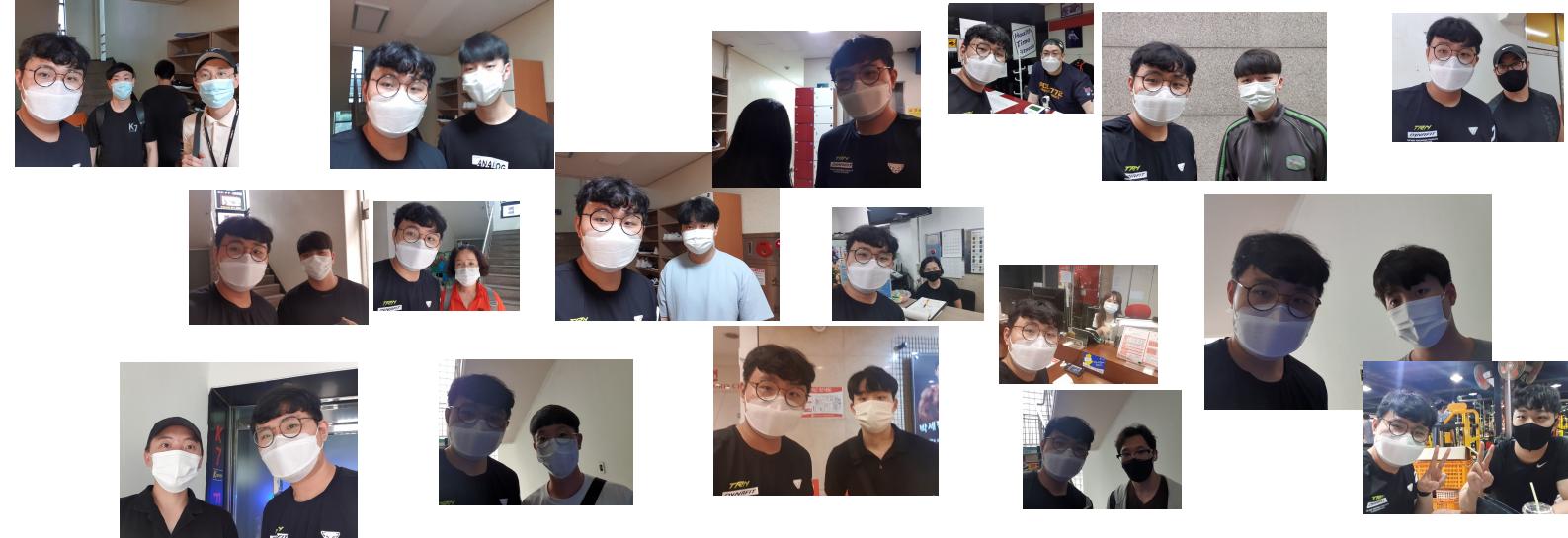
딥 러닝을 활용한 개/고양이 사진 Classifier



# Market Problem

3만명  
35.3만명

8.5%



5년간 소프트웨어 분야 신규 인력 수요는 35만3000명으로  
추산되지만 인력공급은 32만4000명으로 **3만명이 부족!**

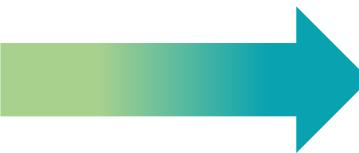
회사들은 급한데로 그나마 소프트웨어를 조금이라도 아는  
비전공자에게 개발능력을 가르치는 상황.  
학교 관계자와 인터뷰를 한 결과 비전공자 **18명 중 2명**만  
소프트웨어 개발 가능. (Source: Hankyung)

올해 2022년엔 3609명의 신입생이 입학.  
매년 입학하는 신입생들에게 소프트웨어 분야의 교육은 필수적이다.

# Development Direction (Teaching Flow)

이론

1. 텐서 조작하기
2. 라이브러리 기능들 소개
3. CNN 개념 소개
4. CNN에 쓰이는 함수들 소개 ( loss function softmax, sigmoid)
5. Overfitting, Underfitting 개념



실습

1. 데이터셋 불러오고 train, validation, test 분할 (8:1:1)
2. 데이터로더에 넣기 (평가x)
3. 모델 정의 (평가x)
4. 모델 훈련
5. 평가 (Accuracy)

틀린 코드 찾기 & 빙칸채우기

교육 방식

모델, 학습 성능 평가  
개선 방향 Advices

# Development Direction (Judge)

## EXAMPLE

Q

Online Judge    Home    Problems    Contests    Status    Rank    About    root ▾

Make calculate function "A+B=?"

**Description**  
Print result of A+B  
 $0 < A, B < 100,000$  (integer)

**Input**  
a b

**Output**  
result of a+b

**Sample Input 1**

```
125 6427
```

**Sample Output 1**

```
6552
```

Language: Python3 Theme: Monokai

```
1 a,b=map(int, input().split())
2 print(a+b)
```

Status Accepted

Submissions

Information

ID	01-001
Time Limit	1000MS
Memory Limit	256MB
IO Mode	Standard IO
Created By	root
Level	Low
Tags	Show

Statistic

AC: 2 40%   WA: 3 60%

A

# Development Direction (Front-end)

website sistem informasi  
Menggunakan CodeIgniter dan MySQL

## Section 1: Pengenalan Code Igniter

- [Pengenalan Code Igniter](#)
- [Membuat Controller](#)
- [Menghilangkan Index.php](#)
- [Membuat View](#)
- [Quiz Section 1](#)

## Section 2: Membuat Template Web Pada CI

- [Membuat Template Web menggunakan Admin LTE](#)
- [Membuat Template web dinamis](#)
- [Menghubungkan database dengan Code Igniter](#)
- [Quiz Section 2](#)

## Section 3: CRUD Pada Code Igniter

- [CRUD: Input data](#)
- [CRUD: Edit/Update data](#)
- [CRUD: Delete Data](#)
- [CRUD: Show detail data](#)

VIDEO

## CSS Examples

Learn from over 300 examples! With our editor, you can edit the CSS, and click on a button to view the result.

[Go to CSS Examples!](#)

## Use the Menu

We recommend reading this tutorial, in the sequence listed in the menu.

If you have a large screen, the menu will always be present on the left.

If you have a small screen, open the menu by clicking the top menu sign ☰.

## CSS Templates

We have created some responsive W3.CSS templates for you to use.

You are free to modify, save, share, and use them in all your projects.

[Free CSS Templates!](#)

## CSS Exercises

Kembali

website sistem informasi  
Menggunakan CodeIgniter dan MySQL

### Section 1: Pengenalan Code Igniter

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### Section 3: CRUD Pada Code Igniter

- [CRUD: Input data](#)
- [CRUD: Edit/Update data](#)
- [CRUD: Delete Data](#)
- [CRUD: Show detail data](#)

Make calculate function "A+B=?"

#### Description

Print result of A+B

0+A+B=100,000 (integer)

125 6427

6552

```
1 "description": "A person who loves to master software challenges, to write quality code, to delete bad code, to learn new skills and wants to be part of our team.",  
2 "keywords": [  
3   "20h", "curious", "software", "developer", "cutting edge technologies",  
4   "web & mobile"  
5 ],  
6 "homepage": "https://www.feedbackr.io/",  
7 "dependencies": {  
8   "proactive": "1.0.2",  
9   "flexible": "^1.0.0",  
10  "experience": ">0.1.1",  
11  "skilled": ">=0.9.1"  
12 },  
13 "devDependencies": {  
14   "coding": ">=1.0.0",  
15   "testing": ">1.0.0-rc.1",  
16   "communication": "1.0.0"  
17 },  
18 };
```

Submit

Pass!

9/10 images successfully classified

Kembali

website sistem informasi  
Menggunakan CodeIgniter dan MySQL

### Section 1: Pengenalan Code Igniter

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- [CRUD: Delete Data](#)
- [CRUD: Show detail data](#)

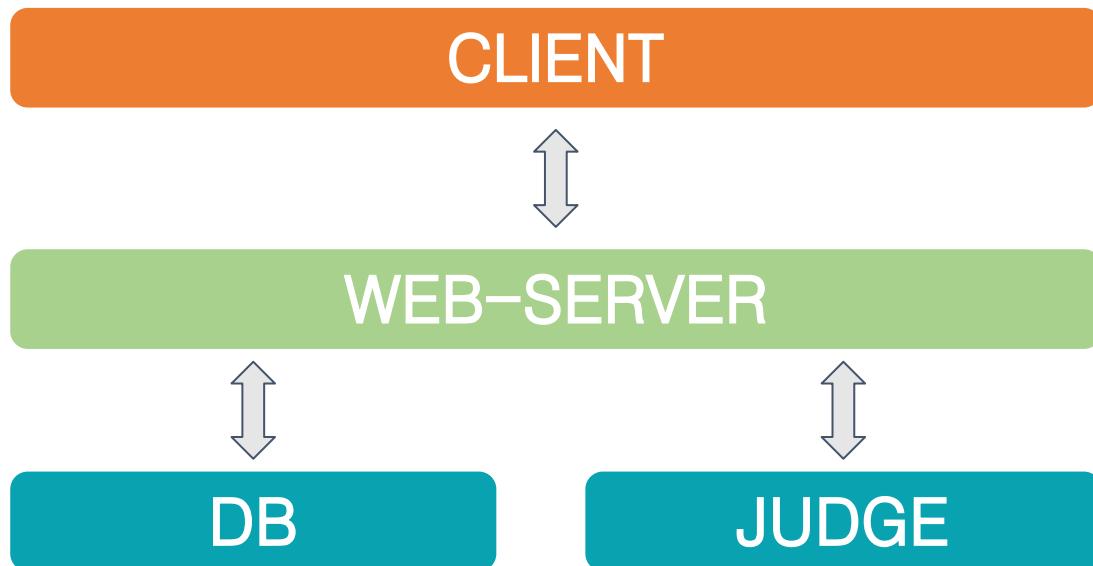
Submit

Failed!

3/10 images successfully classified



# Development Direction (Back-end)



## Back-End

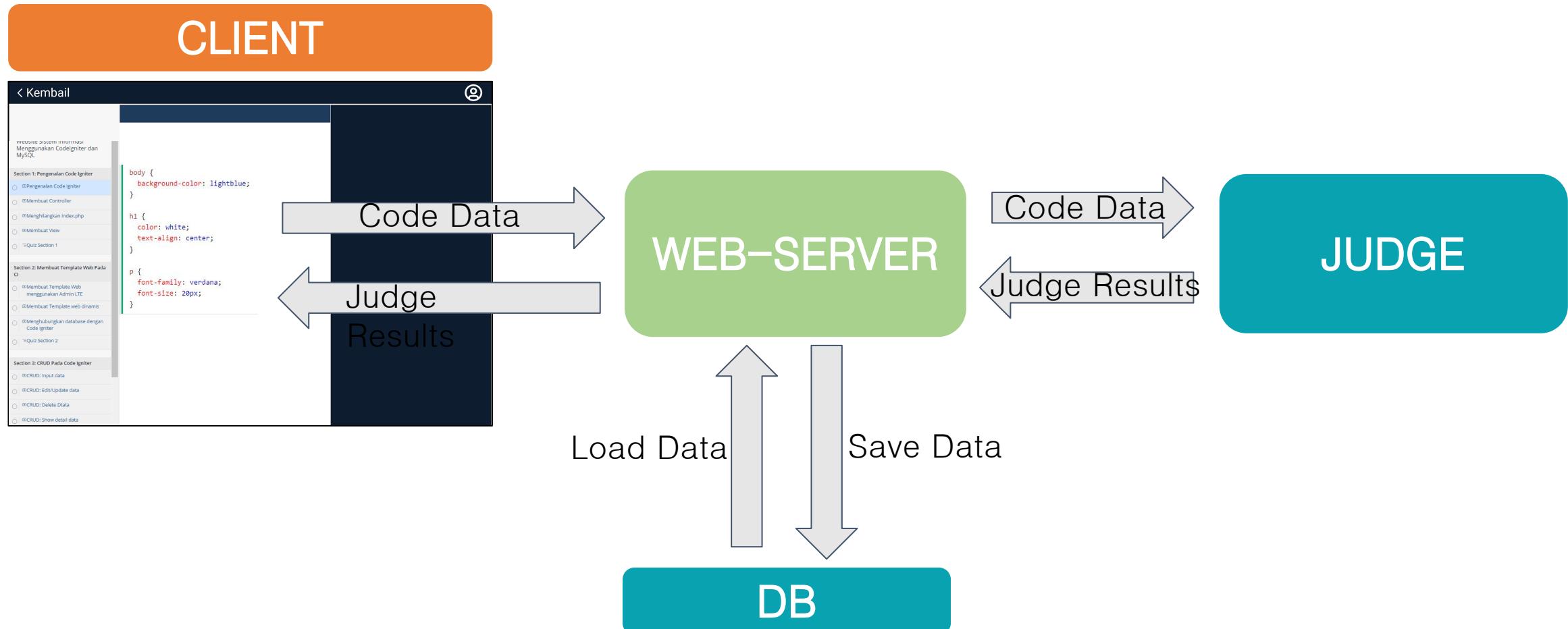
Web Server (Python Django)

1. 로그인 관리
2. 사용자의 요청시 Judge 프로세스와 통신
3. DB 통신

DB (MySQL DB)

1. User 로그인 정보
2. 교육 진행도 / 달성을률

# Development Direction (Back-end)



User Problem Solving Judgement Data Flow

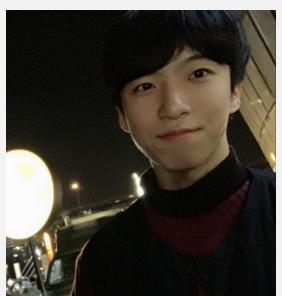
# Development Schedule

Stage    Time Period	w1	w2	w3	w4	w5	w6	w7	w8	w9	w10	w11	w12
Design & Work Division	X											
Pseudo Code Development												
Front-end (HTML, CSS, javascript)												
Back-end (php)												
Back-end (SQL)												
Code Judge												
Teaching Flow												
Bug Testing												

Planned	
Executed	X

# The Team

강동준 (Education Flow)



성균관대 기계/컴퓨터공학과 재학

강영호 (Education Flow)



성균관대학교 시스템경영공학과

김기윤 (Judge)



성균관대학교 소프트웨어학과 재학

박상민 (Back-end)



성균관대학교 컴퓨터공학과

이선종 (Back-end)



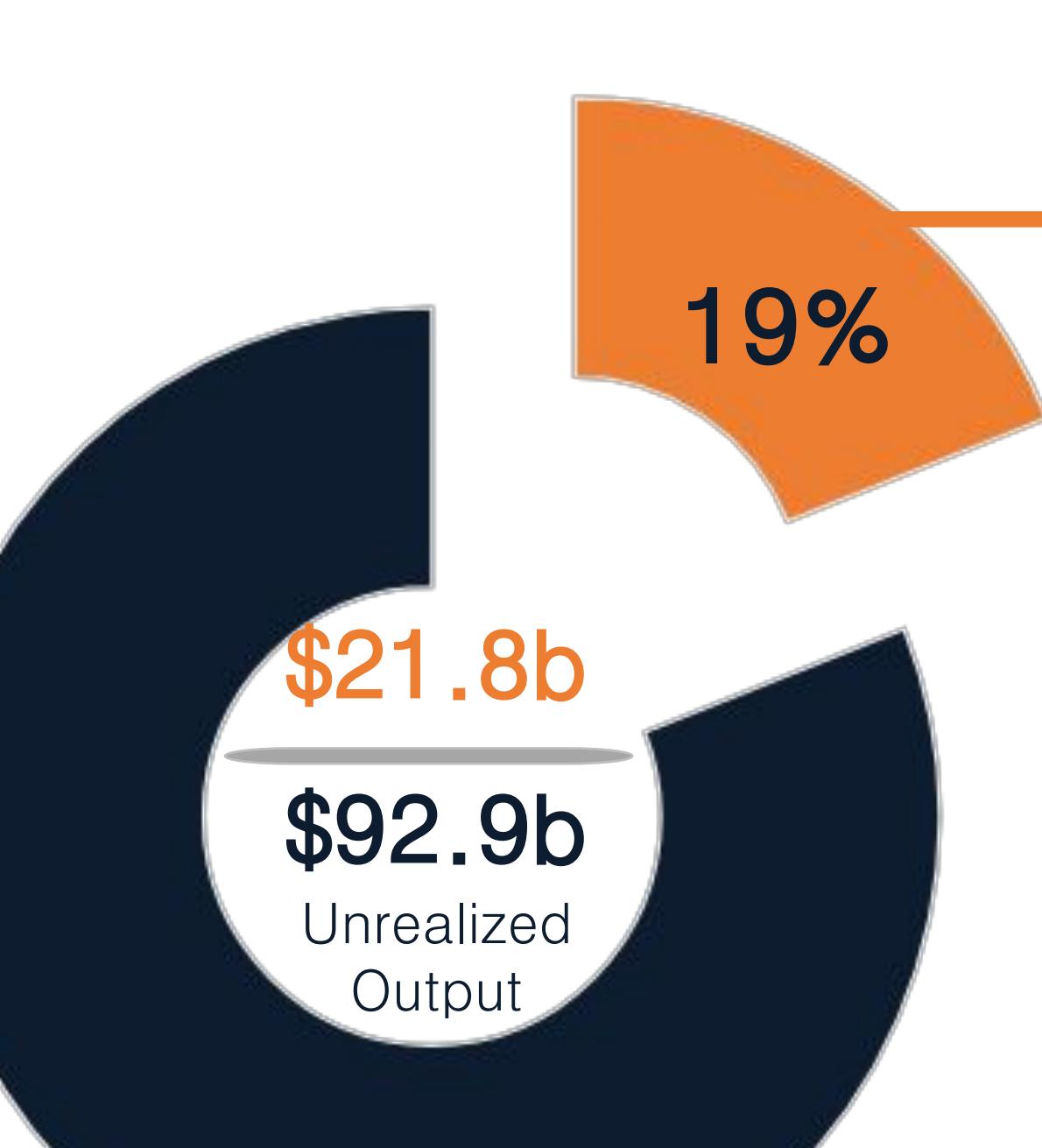
성균관대학교 소프트웨어학과 재학

조민구 (Front-end)



사실 프론트엔드 한번만 개발함  
창업 중 – 사람 모으는 중

# Market Problem

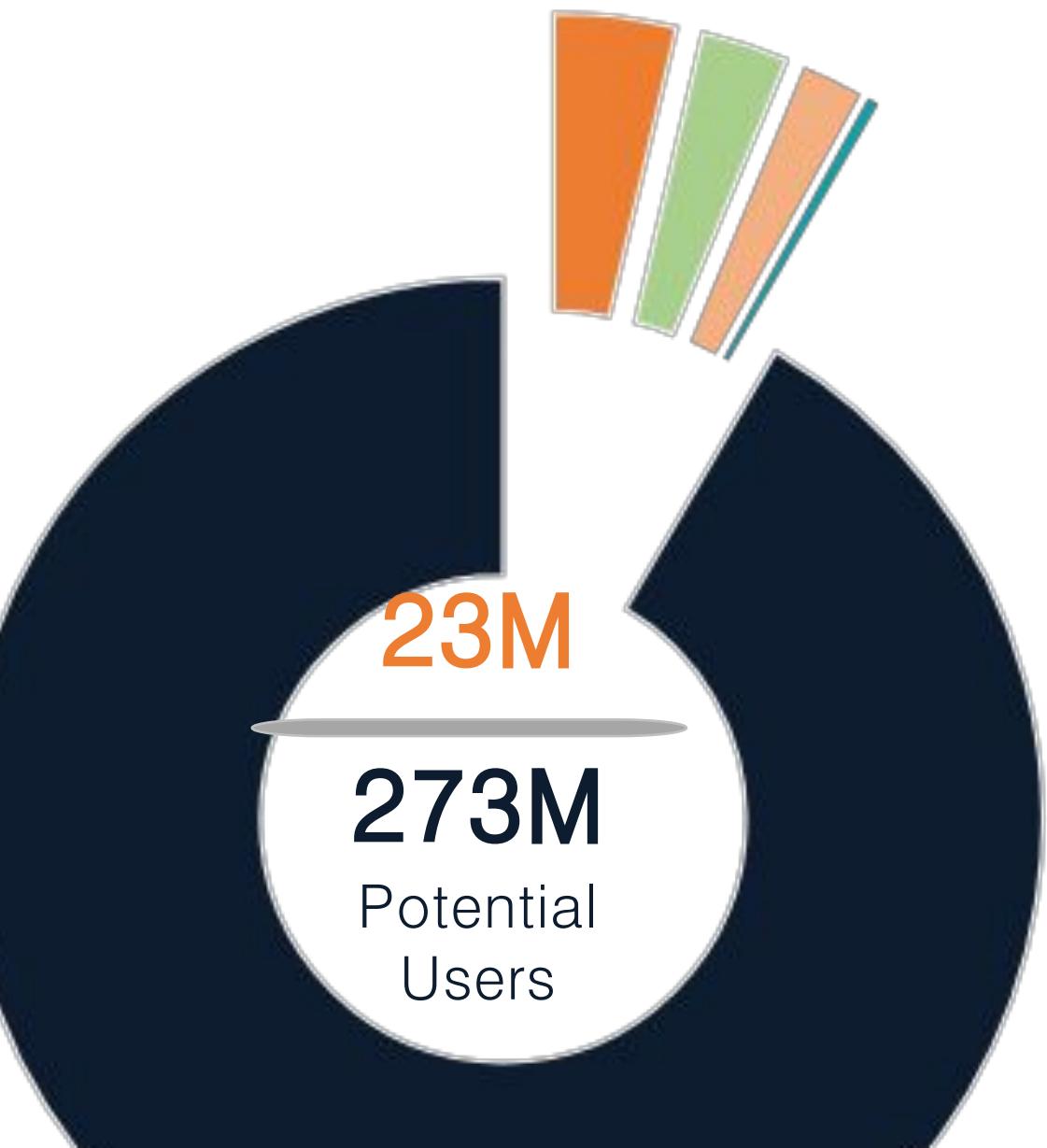


인도네시아가 제조업 경제에서 정보기술 산업으로 넘어가고 있음.

2030년도에는 정보기술 관련 경제가 ₩112조에 달할 것으로 예상되지만 **프로그래머 부족으로 인해 ₩26조가 증발됨**.

1년에 국내에서 졸업하는 개발자 수는 24,603명에 비해 2030년에 **부족한 개발자 수는 졸업자 수의 730배**인 18백만명임.

# Target Users



- SMP Student (10,000,000)
- Unemployed (7,130,850)
- SMA Student (5,020,000)
- Programmers (894,000)

## STUDENT

1 months

\$10

12 months

-31%

\$83

3 months

-10%

\$27

## CORPORATE

1 months

\$20

12 months

-31%

\$165

3 months

-10%

\$54

## PUBLIC

1 months

\$15

12 months

-31%

\$124

3 months

-10%

\$40

# Projection

Attributes	Year 1						FY		
	Mo 1	Mo 2	Mo 3	Q2	Q3	Q4	Year 1	Year 2	Year 3
<b>USER STATISTICS KPI (#)</b>									
SMP Student	12,833	25,666	38,500	717,000	115,500	154,000	154,000	308,000	462,000
SMA Student	12,833	25,666	38,500	717,000	115,500	154,000	154,000	308,000	462,000
Corporate	1,283	2,566	3,850	7,700	11,550	15,400	15,400	30,800	46,200
Public	11,666	23,333	35,000	70,000	105,000	140,000	140,000	280,000	420,000
<b>FINANCIAL STATISTICS KPI (\$)</b>									
Student Profit	256,666	513,332	770,000	1,540,000	2,310,000	3,080,000	3,080,000	6,160,000	9,240,000
Corporate Profit	8,555	17,110	25,666	51,332	76,998	102,666	102,666	308,002	924,000
Public Profit	175,000	350,000	525,000	1,050,000	1,575,000	2,100,000	2,100,000	4,200,000	6,300,000
Total Profit	440,221	880,442	1,320,666	2,641,332	3,961,998	7,000,000	7,000,000	14,000,000	16,464,000
Operational Cost	1,750,000	3,500,000	5,250,000	10,500,000	15,750,000	21,000,000	21,000,000	21,000,000	21,000,000
Net Profit	1309779	2619558	3929334	7,858,668	11,788,002	14,000,000	14,000,000	7,000,000	4,536,000

\*Projection focused on BEP (further research required for accurate projection\*)

Our Vision

Friendly &  
Challenging

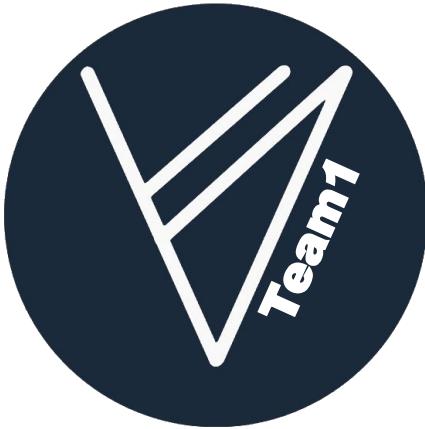
Knowledge  
Help

1 STOP  
**PROGRAMMING**  
**STUDY**  
**SERVICE**

Coding  
Help

Real Time  
Judge

Future  
Expansion



THANK YOU