

Software Engineering Team4 Proposal

: Web Service Program for Chat-bot Education in Python

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TARGET SYSTEM

Existing Services

...slide 3

Service Outline

...slide 5

Expectation

...slide 6

DETAILED DEVELOPMENT PLAN

Tool for Development

...slide 7

Curriculum

...slide 8

Services Contents

...slide 9

SCHEDULE AND DIVISION OF WORK

Process model

...slide 10

Schedule

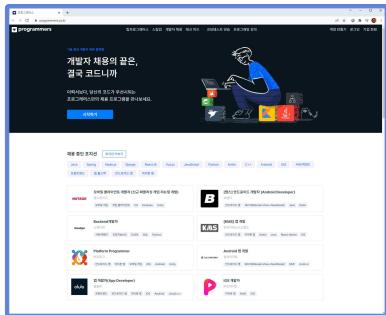
...slide 11

Work division

...slide 12

Existing Services

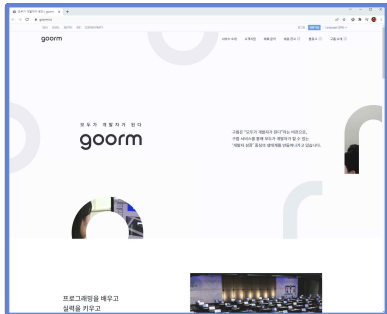
Programmers



- Web service
- Programming lecture and exercise kit
- Practice for coding test
- Recruitment platform

Existing Services

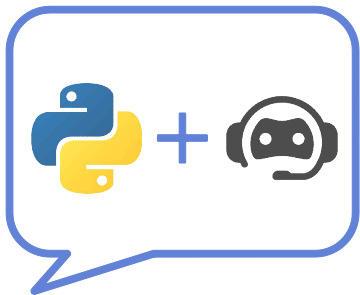
Goorm



- Web service
- AI & SW education platform
- Own curriculum and level
- For teenagers and university students

TARGET SYSTEM

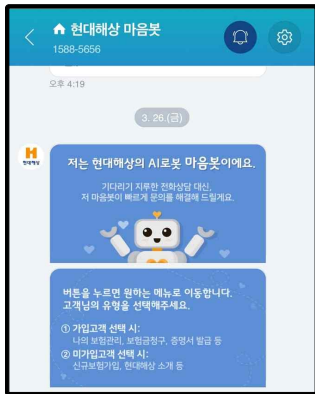
Service Outline



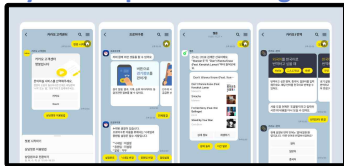
“Web Service Program for Chat-bot Education in Python”

Expectation

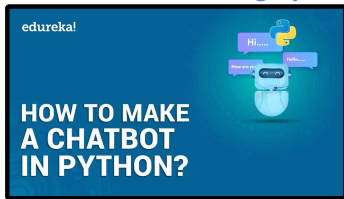
Chatbot Service in Businesses



Easy Development for Beginners

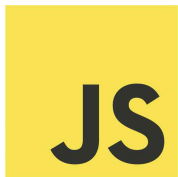


Educational Effect using Python



DETAILED DEVELOPMENT PLAN

Tool for Development



JavaScript



HTML



Python



MariaDB

FRONT END

BACK END

DETAILED DEVELOPMENT PLAN

Curriculum

PYTHON BASIC

Basic Python Grammar
& Data structure

CHATBOT IMPLEMENTATION

Database Design
& Data Label

Preprocessing

Word
Dictionary
&
Sequence
Creating

DB interlock

Classification

Classification
Model

Classification
Module

Database
Control
Module

Chatbot
Engine
Working

CHATBOT SERVER HANDLING

TCP Socket Server

Server Main Program
& Test Client Program

API Server

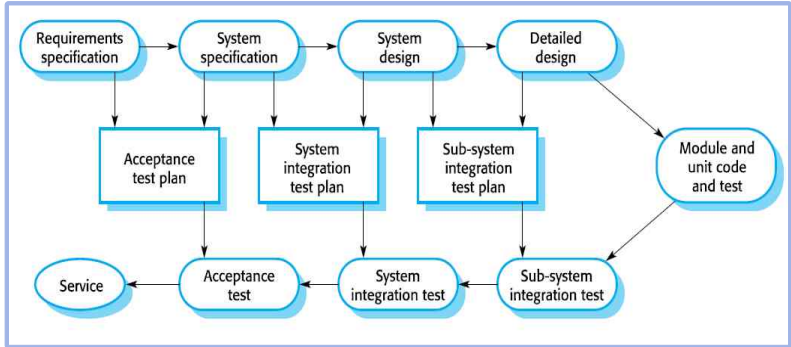
Interlock with
Kakaotalk
Naver
...etc

Services Contents

- Python education based on service curriculum
- Test(quiz) for learner
- Simple source code estimation based on code result
- User log-in and log-out using database
- FAQ
- ...etc

Process Model

V-model: Improved Waterfall Model



SCHEDULE AND DIVISION OF WORK

Schedule

03.21 ~ 03.26:	System specification (Acceptance test plan)
03.26 ~ 04.03:	System design (System integration test plan)
04.03 ~ 04.10:	Detailed design (Sub-system integration test plan)
04.11 ~ 05.01:	Module and unit code and test
05.02 ~ 05.15:	Sub-system integration test
05.16 ~ 05.29:	System integration test
05.30 ~ 06.05:	Acceptance test

Each schedule can be changed.

Work Devision

- System specification and design: 2020311323 손영훈
- Front end development: 2015313546 김창현
2017314786 정동진
- Back end development: 2019315437 최가은
- Test plan and testing: 2019310847 송예진
- Document preparation: 2016312117 양이삭

Each team member can be involved in other works.

Thank you.

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