2025 한양대학교

SW/ICT/AI 종합학술대회

IT/CSE 응용 연구개발 - 자람

LangGraph를 이용한 개인 맞춤형 청소년 진로상담 서비스 프로젝트

오다연(20학번), 황지민(21학번)
이상진(21학번), 목정빈(25학번)

2025. 11. 27.

한양대학교 ERICA 소프트웨어융합대학 / 한양대학교 ERICA SW중심대학사업단

github.com/team-1to3 Copyright © 2025 Team 1to3. All rights reserved.

Abstract

서비스 개요

내일의 나

청소년들의 진로 설계를 독려하는 AI 멘토링 솔루션

문제

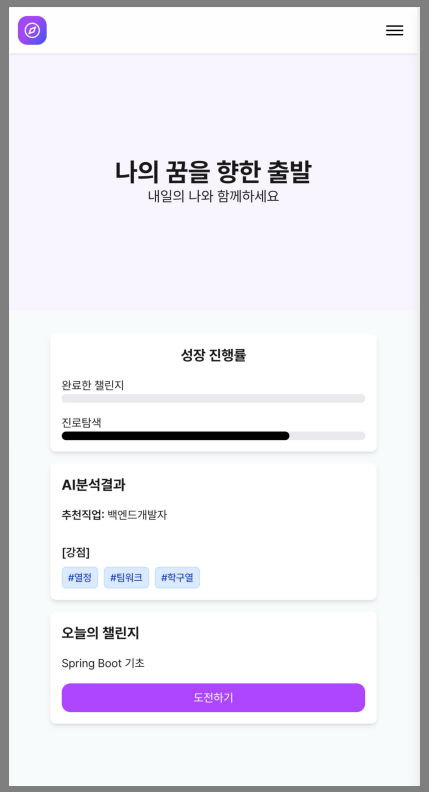
표준화 검사의 한계와 상담 인력 부족

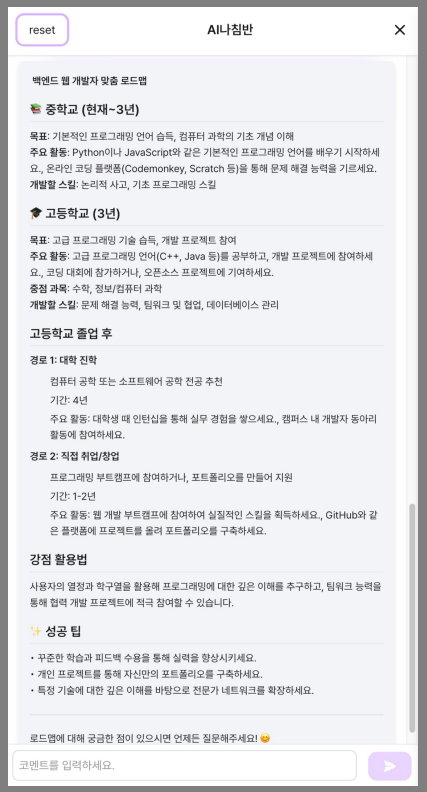
해결

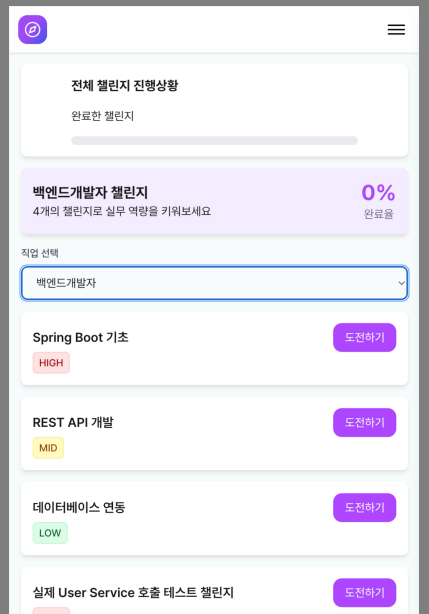
LangGraph 기반의 상태 관리형 대화 시스템

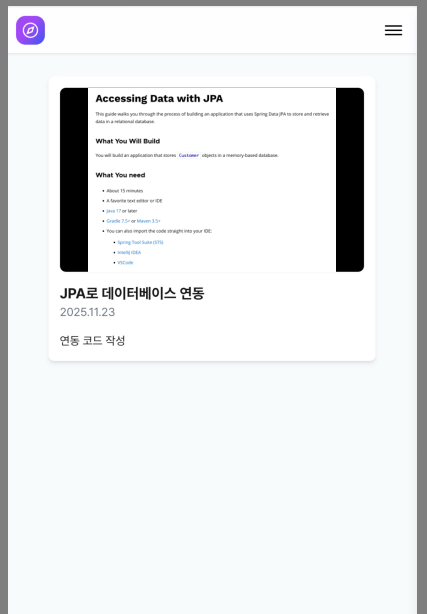
가치

"강점 분석 -> 직업 추천 -> 로드맵 -> 챌린지"의 유기적 연결을 통해 실질적인 행동 변화 유도









github.com/team-1to3
Copyright © 2025 Team 1to3. All rights reserved.

Intro & Background

92.2%

고민이 있는 청소년 비율①

58.8%

성적/적성/직업이 고민①



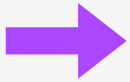
시간적 한계
(상담사)



상담 품질의 편차



지속적 관리
어려움



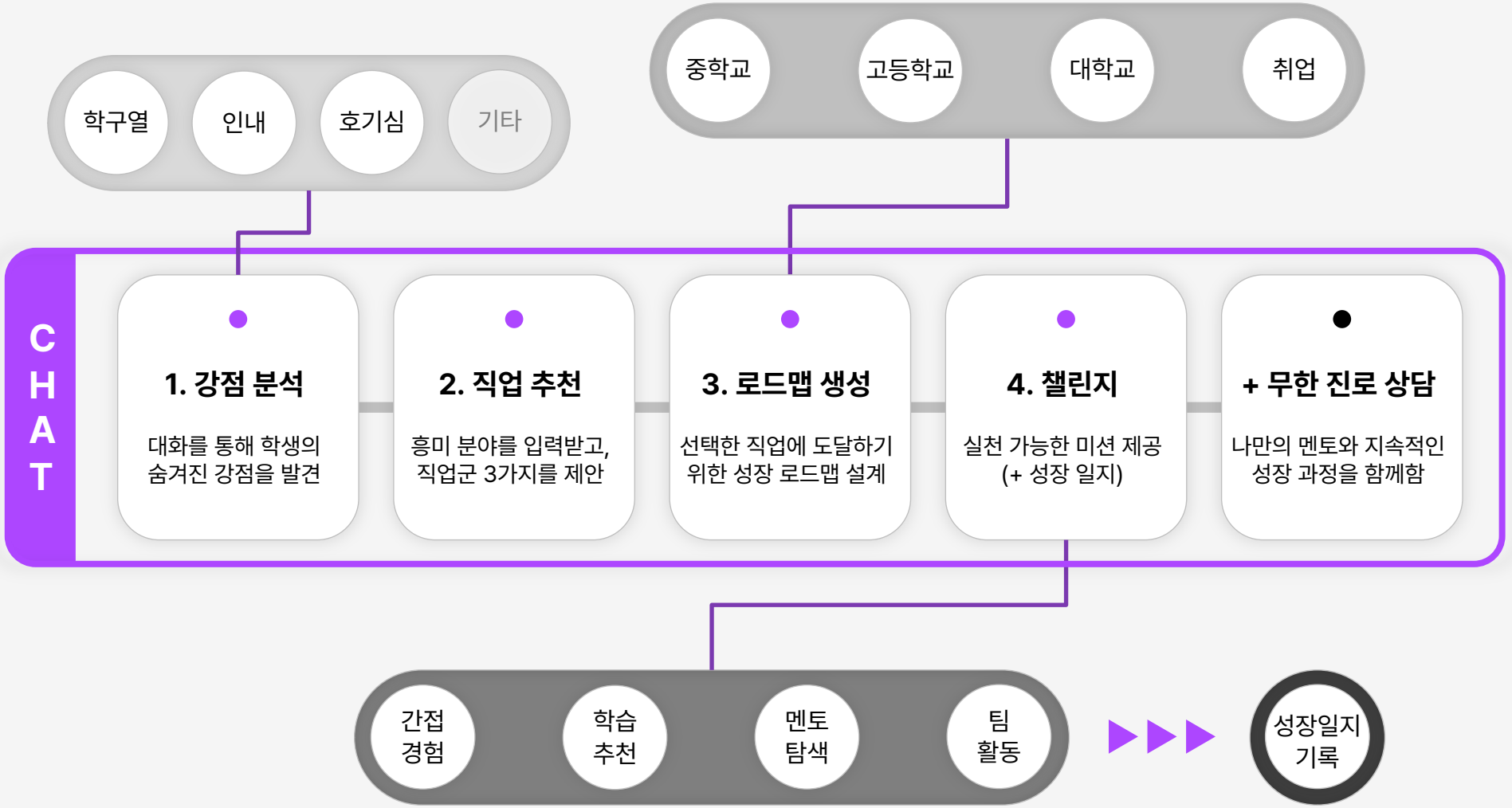


**"내일의 나"
통합 관리**

github.com/team-1to3
Copyright © 2025 Team 1to3. All rights reserved.

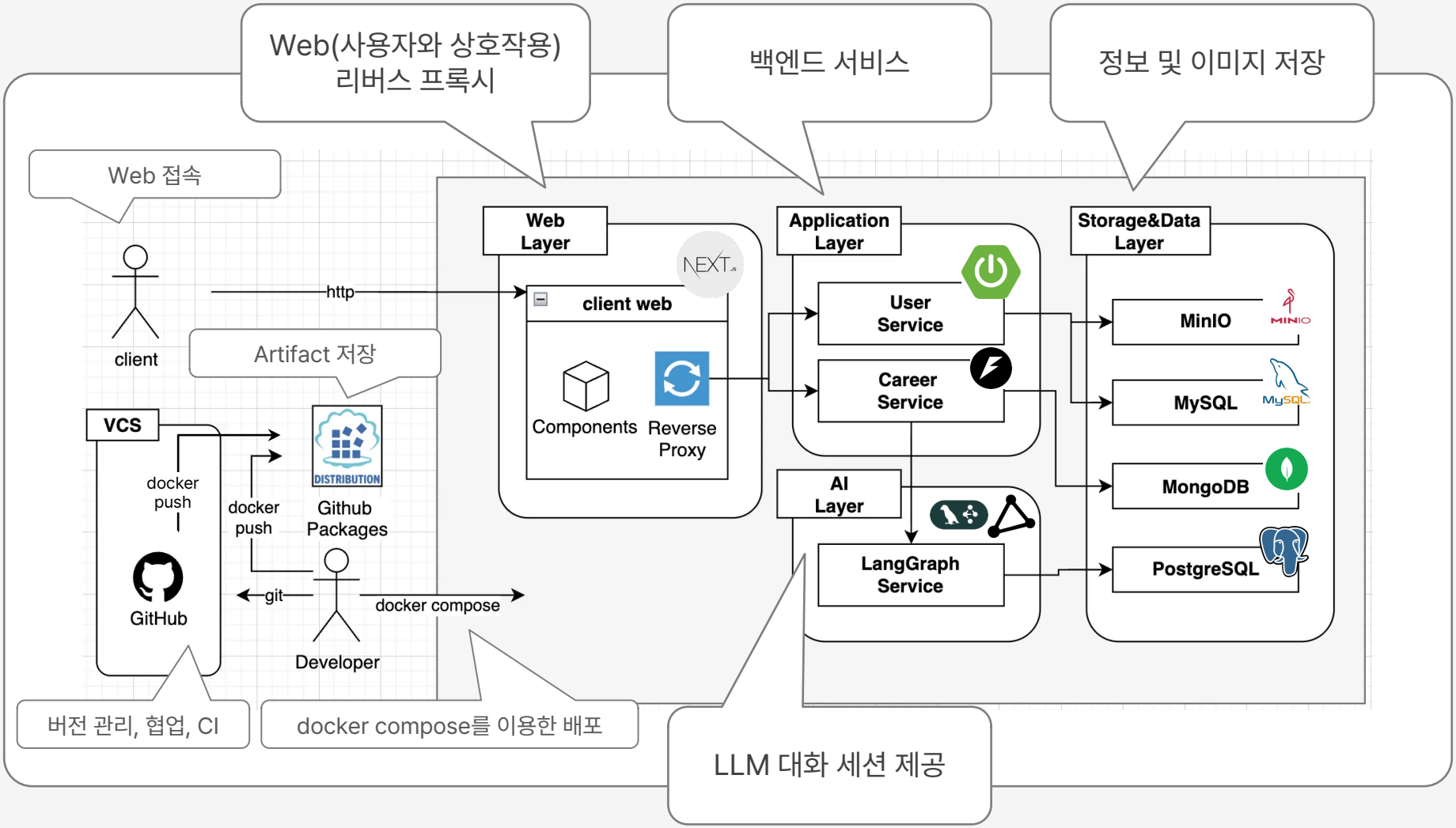
① 「청소년 통계」, 여성가족부, 2025, 34쪽

Method – 개인 맞춤형 진로 설계 방법



github.com/team-1to3
Copyright © 2025 Team 1to3. All rights reserved.

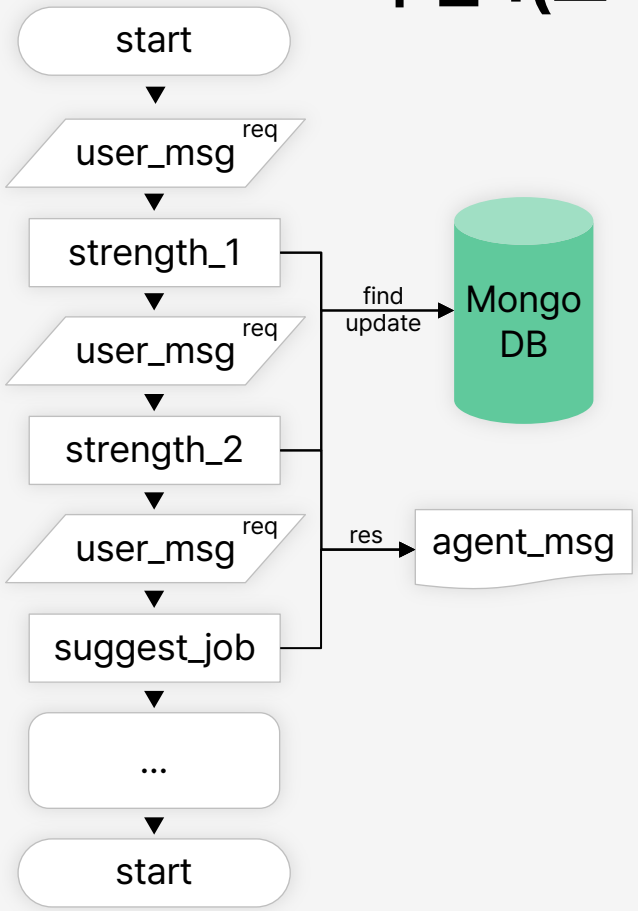
Method - 아키텍처



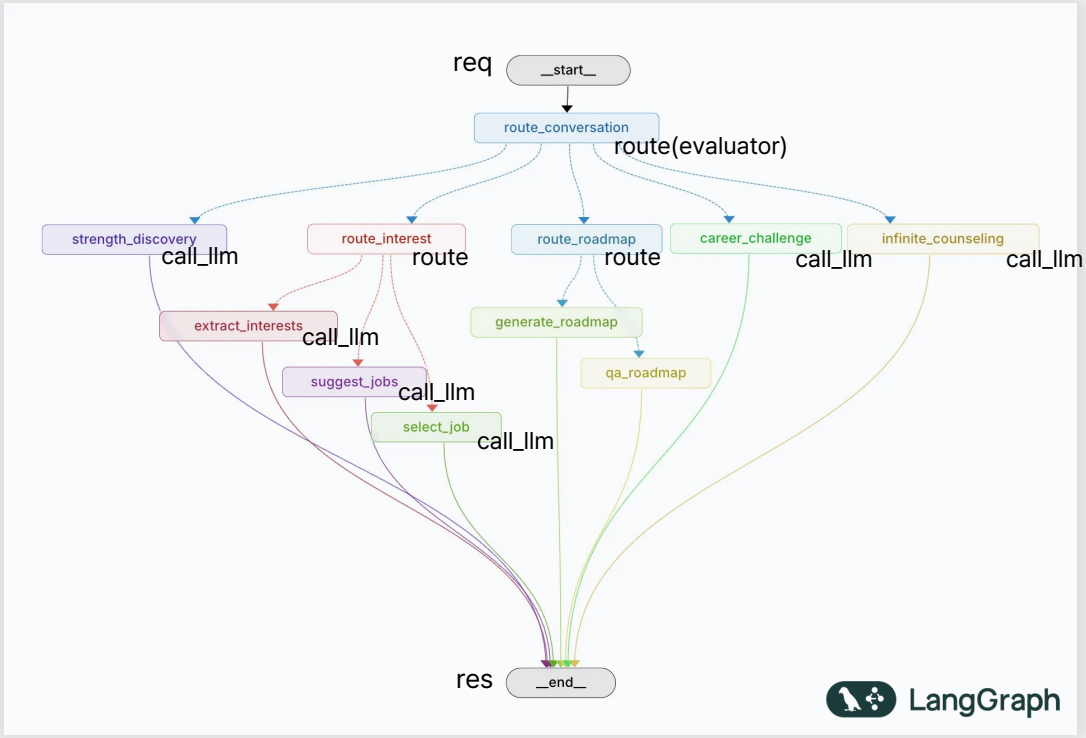
github.com/team-1to3
Copyright © 2025 Team 1to3. All rights reserved.

Method – LangGraph 적용 사례 (Graph Definition)

구현 1(초기)



구현 2(최종)





github.com/team-1to3
Copyright © 2025 Team 1to3. All rights reserved.

Method – LangGraph 적용 사례 (State Definition)

InputState

messages List[AnyMessage]

Control Flow

conversation_stage str
conversation_count int
is_last_step bool

LangGraph

Strength

identified_strengths List[str]
strength_evidence Dict

Roadmap

roadmap_stage str
generated_roadmap Dict
roadmap_qa_count int

Interest & Job

interest_stage str
suggested_jobs List[Dict]
selected_job str

Challenge

challenge_list List[Dict]
infinite_counseling_count int

github.com/team-1to3
Copyright © 2025 Team 1to3. All rights reserved.

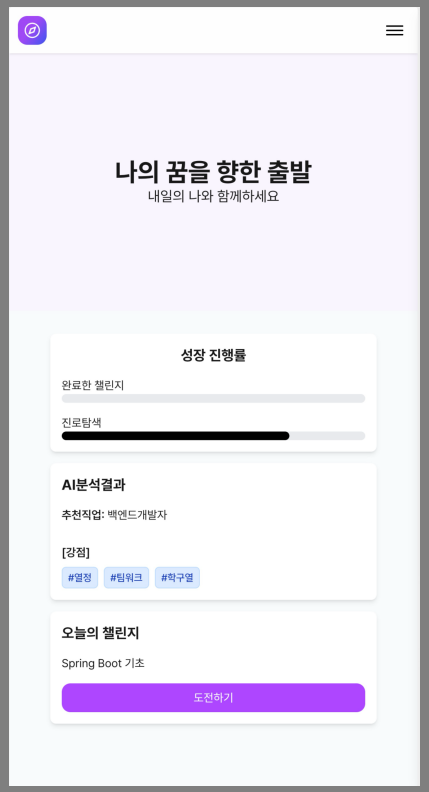
Conclusion

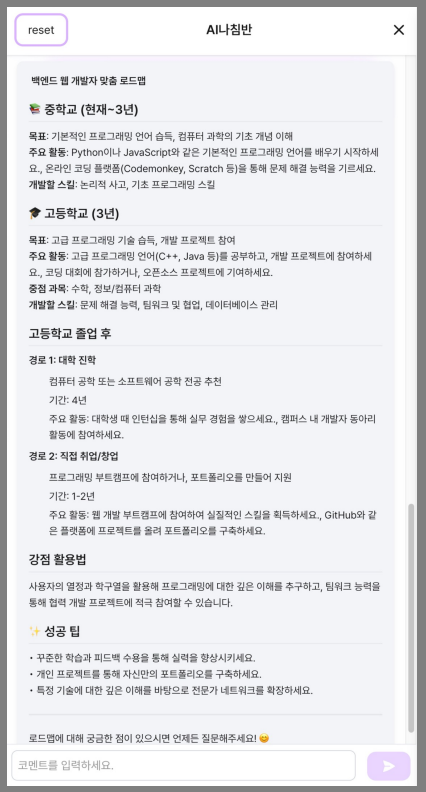
맞춤형 진로 상담 단계 설계

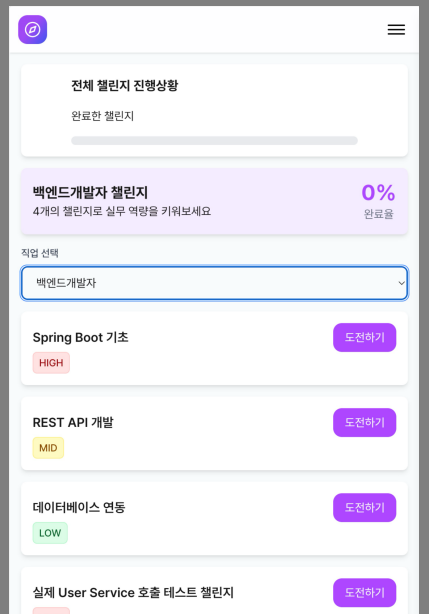
LangGraph SDK를 활용한 구현

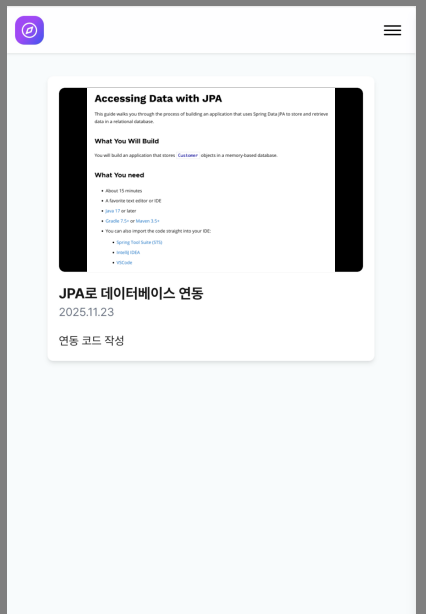
진로 효능감 향상 및 정보 격차 해소

"내일의 나"
데모 요청









github.com/team-1to3
Copyright © 2025 Team 1to3. All rights reserved.