



# NEXUMINDS NEXUS: AI-POWERED CURRICULUM ASSISTANT

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## INTRODUCTION

NextMinds is a K-12 invention education program empowering students through hands-on innovation and entrepreneurship, reaching 12,000+ young innovators annually. Through the AIQUI Innovation Sandbox, we partnered with NextMinds to improve how educators access and use curriculum resources.

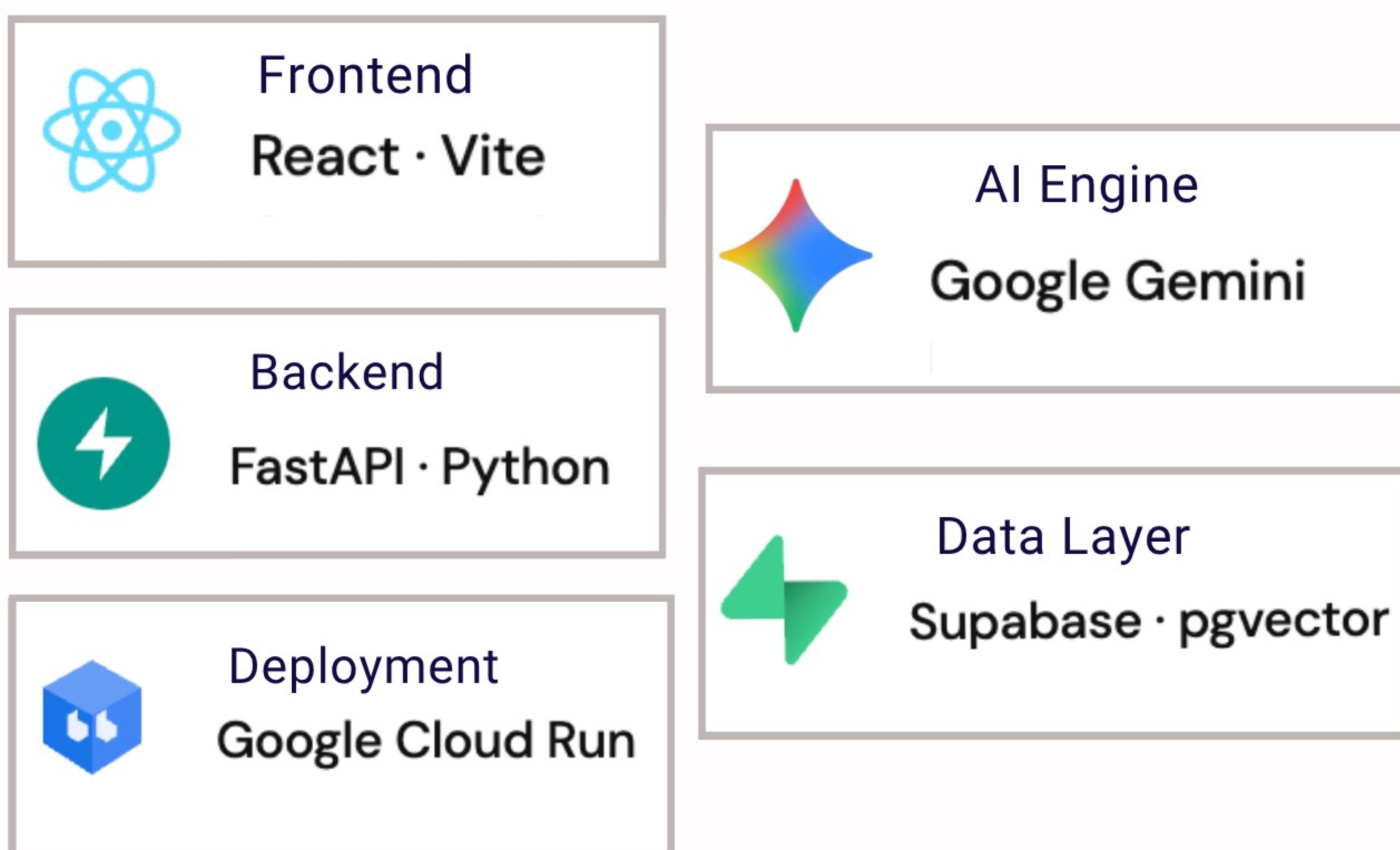
## CURRENT PROBLEM

- Difficult to navigate complex curriculum resources
- Low awareness and inconsistent usage of materials
- New educators feel overwhelmed and unsure where to start in their teaching process

## OUR SOLUTION

NEXUS is an AI-powered conversational recommendation engine that bridges the gap between static documents and classroom implementation. It understands teacher intent, delivers relevant curriculum resources, and supports follow-up questions.

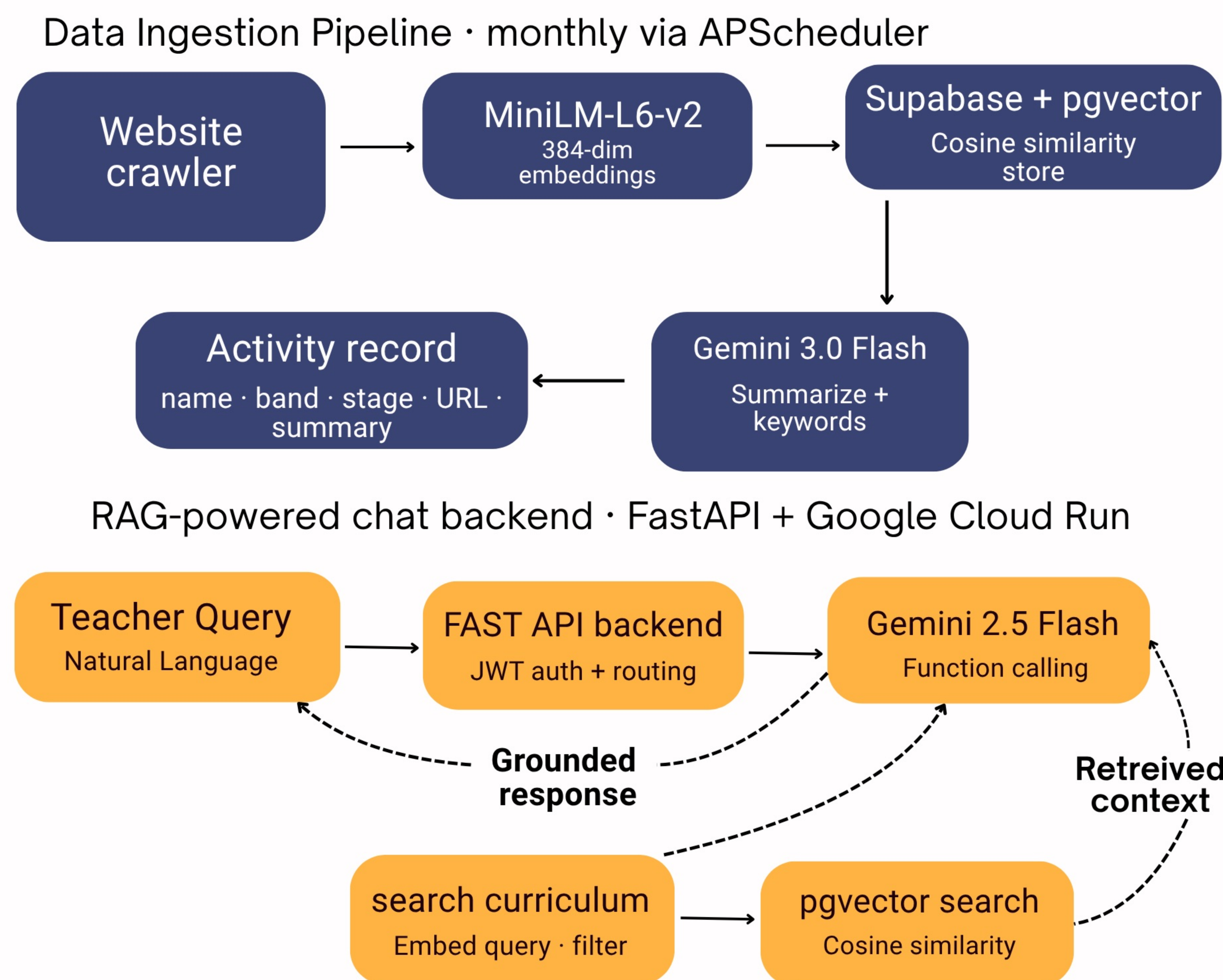
## TECH STACK



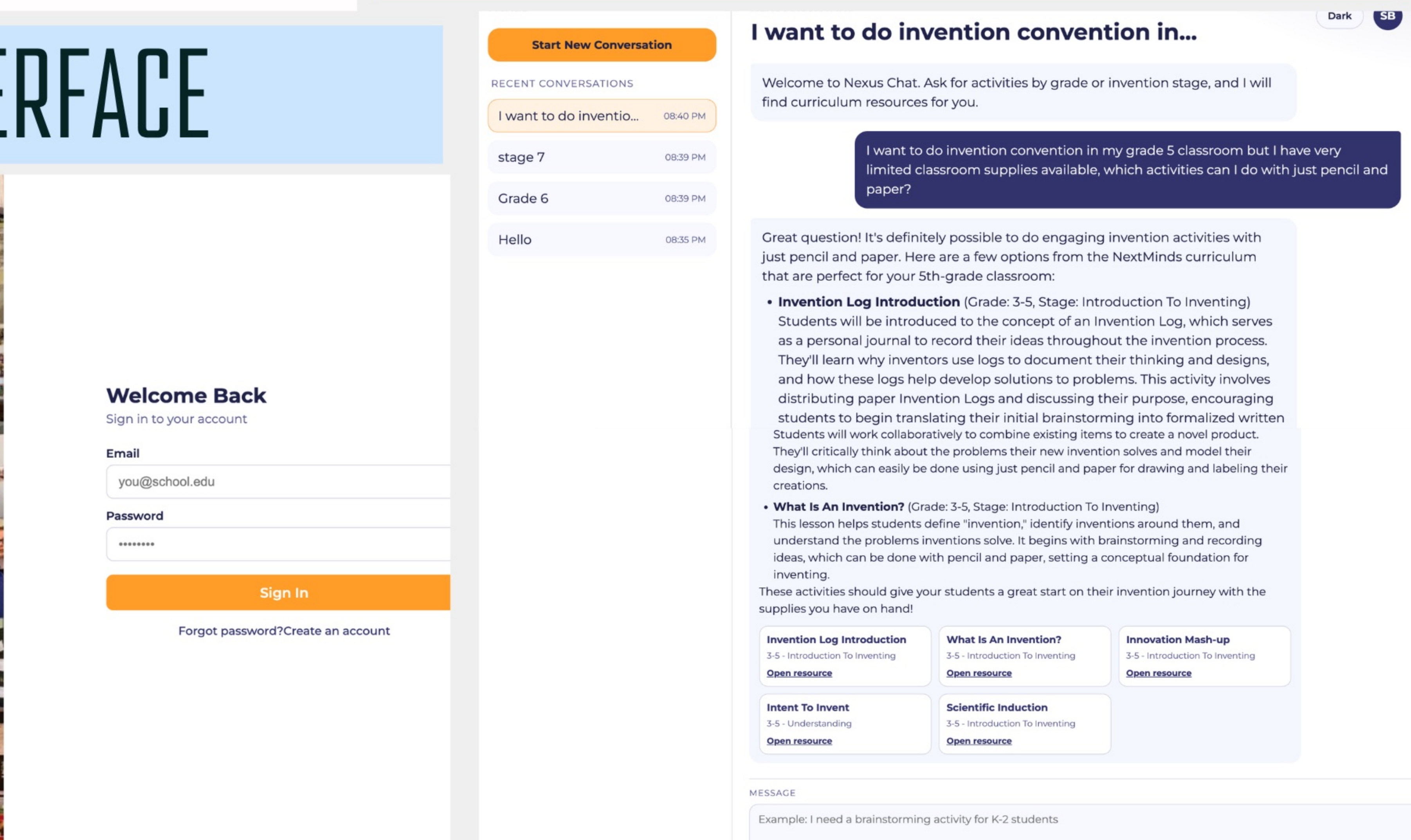
## CORE CAPABILITIES

- Discover activities through simple, natural language prompts
- Access detailed activity insights, including materials, exercises, and learning goals
- Semantic, intent-based retrieval
- Context-aware, multi-turn interactions
- Grounded in real NextMinds curriculum
- Admin dashboard for managing and updating content

## SYSTEM ARCHITECTURE



## USER INTERFACE



## RESULT & FUTURE WORK

Nexus is currently deployed, with plans to onboard teachers for the upcoming fall semester. Moving forward, we aim to integrate Nexus with Google Classroom while continuing to expand features and enhance overall system capabilities.