SOFTWARE ENGINEERING PROJECT

JAN 2025 TERM - TEAM 1

MILESTONE - 1

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IDENTIFIED USERS

01 Primary Users

Students: The primary audience who use the AI agent to get guidance on course materials, assignments, and quizzes. They rely on the agent to enhance their study strategies and locate relevant resources without receiving direct answers, fostering self-learning.

02 Secondary Users

Course Instructors: Course instructors indirectly interact with the AI agent by relying on its ability to guide students effectively. Instructors benefit from the agent's role in addressing routine queries and nudging students toward effective study practices, which supports their teaching efforts.

Teaching Assistants (TAs): TAs may refer students to the AI agent for routine academic guidance, allowing them to focus on more complex or personalized student needs.

IDENTIFIED USERS

03 Tertiary Users

Professors: Professors deliver lectures and play an essential role in designing and overseeing the course content but do not interact with the SEEK portal directly.

Support Team: The support team manages technical issues and addresses students' non-academic concerns related to the AI agent or SEEK portal.

Developers and Maintainers of the AI Agent: The developers and maintainers are responsible for building, testing, and ensuring the ongoing functionality of the AI agent. They design the system to align with the institution's objectives, integrate it seamlessly into the SEEK portal, and ensure it enforces academic integrity principles while providing valuable guidance to students.

USER STORIES

01

As a student,
I want the AI agent to summarize key concepts from lecture videos into bullet points,
so that I can review and understand the main ideas without re-watching the entire content.

02

As a student,
I want the AI agent to provide a comprehensive summary of all the content covered during the week, including key concepts and activities,
so that I can review the entire week's material at once without needing to revisit individual lectures or resources.

03

As a student,
I want the AI agent to persistently remember my last 5 queries and maintain the context of our conversations,
so that I can have seamless and coherent conversations without repeating information and avoid redundant discussions.

04

As a student,
I want the AI agent to answer academic queries related to specific topics,
so that I can quickly access relevant course material and deepen my understanding without wasting time searching through multiple resources.

USER STORIES

05

As a student,
I want the AI agent to generate 10 practice questions tailored to the specific topics I request,
so that I can effectively test my understanding and address my weak areas with focused practice.

06

As a student,
I want the AI agent to generate concise notes with bullet points for the specific topics I request,
so that I can quickly and effectively review key concepts to prepare for assignments and quizzes.

07

As a student,
I want the AI agent to create mock quizzes or end-term exam simulations tailored to the course content,
so that I can practice under exam-like conditions and identify areas for improvement.

08

As a student,
I want the AI agent to recommend specific topics to review if my performance in a mock quiz is below 80%,
so that I can focus on weak areas and improve my understanding quickly.

USER STORIES

09

As a student,
I want the AI agent to analyze my programming assignment errors and explain the underlying issues,
so that I can understand what went wrong and learn how to fix them effectively.

10

As a teaching assistant,
I want the AI agent to handle routine academic queries from students,
so that I can focus on providing personalized support for more complex issues.

11

As a course instructor,
I want the AI agent to generate mock quizzes and end-term exams tailored to the course syllabus and difficulty levels,
so that students can effectively practice and improve their readiness for the actual exams.

12

As a support team member,
I want to track and analyze usage statistics for the AI agent's features,
so that I can monitor feature adoption, identify user preferences, and investigate underutilized functionalities.