



  **Project Management Institute**
Taipei, Taiwan



A Sustainable Complementary Learning Platform

One for all, all for one in after-class learning.

Present to: PMI Region9 University Case Competition 2024

  This presentation is for the 2024 PMI Regional Business Case Competition, produced by One for all, all for one. @NTCU

One for All, All for One Team Members

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The Proposed Project



Sustainable

- It helps achieve SDG #4, quality education.
- It supports after-class learning in a self-sustainable way based on peer learning.

Complementary

- It doesn't aim to replace traditional classroom lectures (online and offline).
- It complements existing teaching, with an after-class online peer learning platform.

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Project Goals and Philosophy

Project Goals

To achieve both **social value** and **business value**.

Our philosophy

SOCIAL VALUE

BUSINESS VALUE

AGILE

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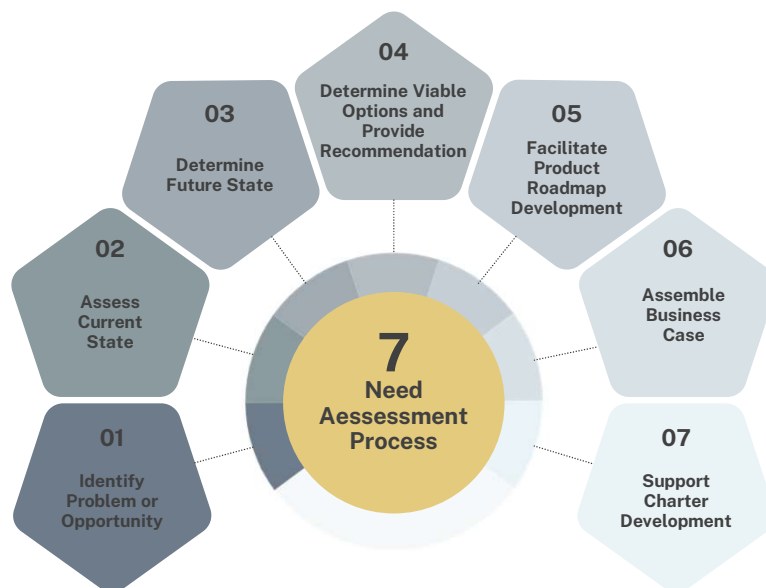
Outline



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Need Assessment Process

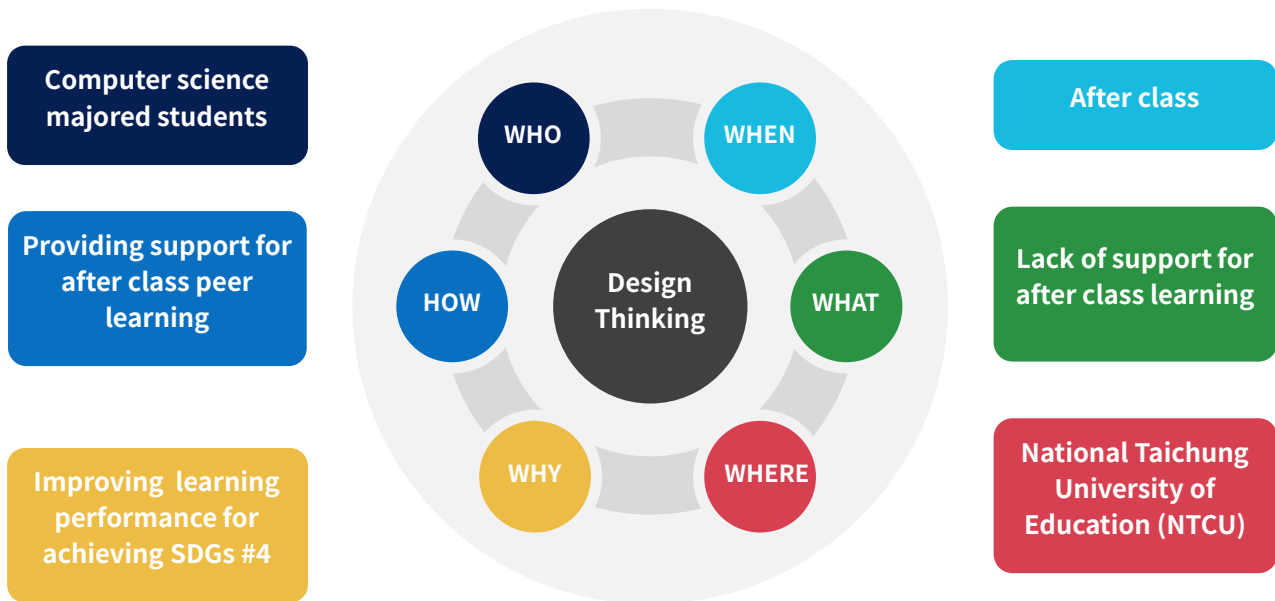


From "The PMI Guide to Business Analysis"

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Design Thinking for Finding Solutions



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Cost-Benefit Analysis

	Cost	Benefit
Increase teachers office hours <ul style="list-style-type: none"> Increased costs Limited increase in after-class assistance 	high	low
Expand space and time for students to discuss and study after class <ul style="list-style-type: none"> Still can't do it anytime, anywhere Most of the contacts are limited to classmates whom students originally knew 	low	medium
 Provide online peer learning platform <ul style="list-style-type: none"> After class peer learning for anytime, anywhere, anyone Becoming more and more accustomed to online platforms 	medium	high

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Proposed Strategies for Encouraging Peer Learning

1

Points system Time Banking and Blockchain Technology

- Calculate teaching hours.
- Earn points by teaching.
- Exchange platform's goods or services by point.

2

AI Matchmaking system AI / Collaborative filtering

- Analyze user's self-evaluation and past questions.
- Recommend questions to suitable solver.

3


Knowledge management Large Language Model / Generative AI

- Questions will be used to train Generative AI.
- Generative AI will provide a preliminary solution and reference articles when facing similar questions.

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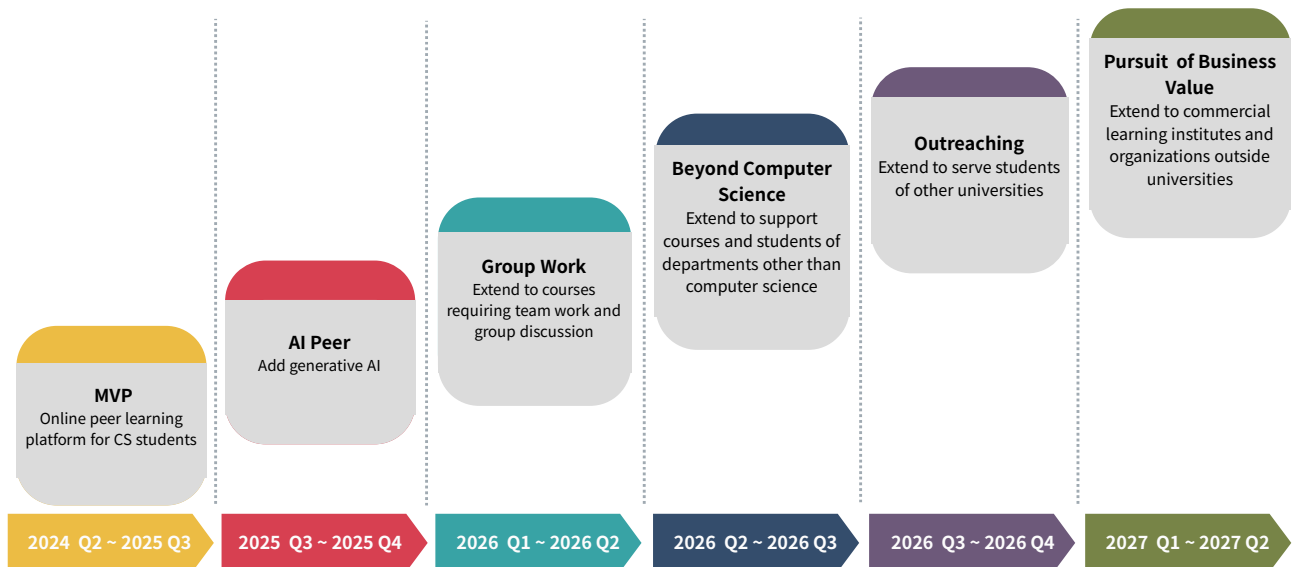
Competitive Analysis

	 Us	After Class	SnapAsk	Ask.fm	Baidu	StackOverflow	AfterSchool	Dcard
Free Learning	✓	✓		✓		✓	✓	✓
AI	✓				✓			
Knowledge Management	✓	✓					✓	
Automatic Matching	✓		✓	✓	✓			
Real Time Q&A	✓		✓	✓	✓		✓	
Public Discussion	✓	✓					✓	✓
Voice & Video	✓						✓	

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O5. Facilitate Product Roadmap Development



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MoSCow Prioritization for Requirements of MVP

Must have

- Online after-class peer learning platform for CS students
- AI Matching for Q&A

Should have

- Extend to courses requiring team work and group discussion

Could have

- Extend to support courses and students of departments other than computer science
- Extend to serve students of other universities

Won't have for now

- Outreaching to commercial learning institutes and organizations outside universities

From: Requirements Management: A Practical Guide (chapter 6)(published by PMI)

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1

A Hybrid Development Approach

A hybrid development approach is adopted in this project, where Waterfall and Agile would be applied to different releases:

01

Waterfall for the Minimum Viable Product (MVP)(the first release), whose functionalities have been defined and confirmed.

02

Agile for the following releases to quickly adapt and respond to user needs and feedback.

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Risk analysis and Mitigation

A

Exploit loopholes to earn credit points.

Mitigation

- Forum Inspection
- Reporting Mechanism

Few people are willing to answer questions.

B

Mitigation

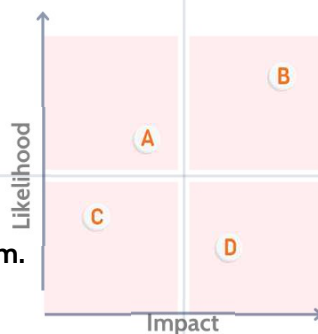
- Time Banking
- Records
- Awards
- Teaching and learning go hand in hand.

C

Users question the scoring method of the points system.

Mitigation

- Continuously optimize the mechanism through user feedback



Server is overloaded.

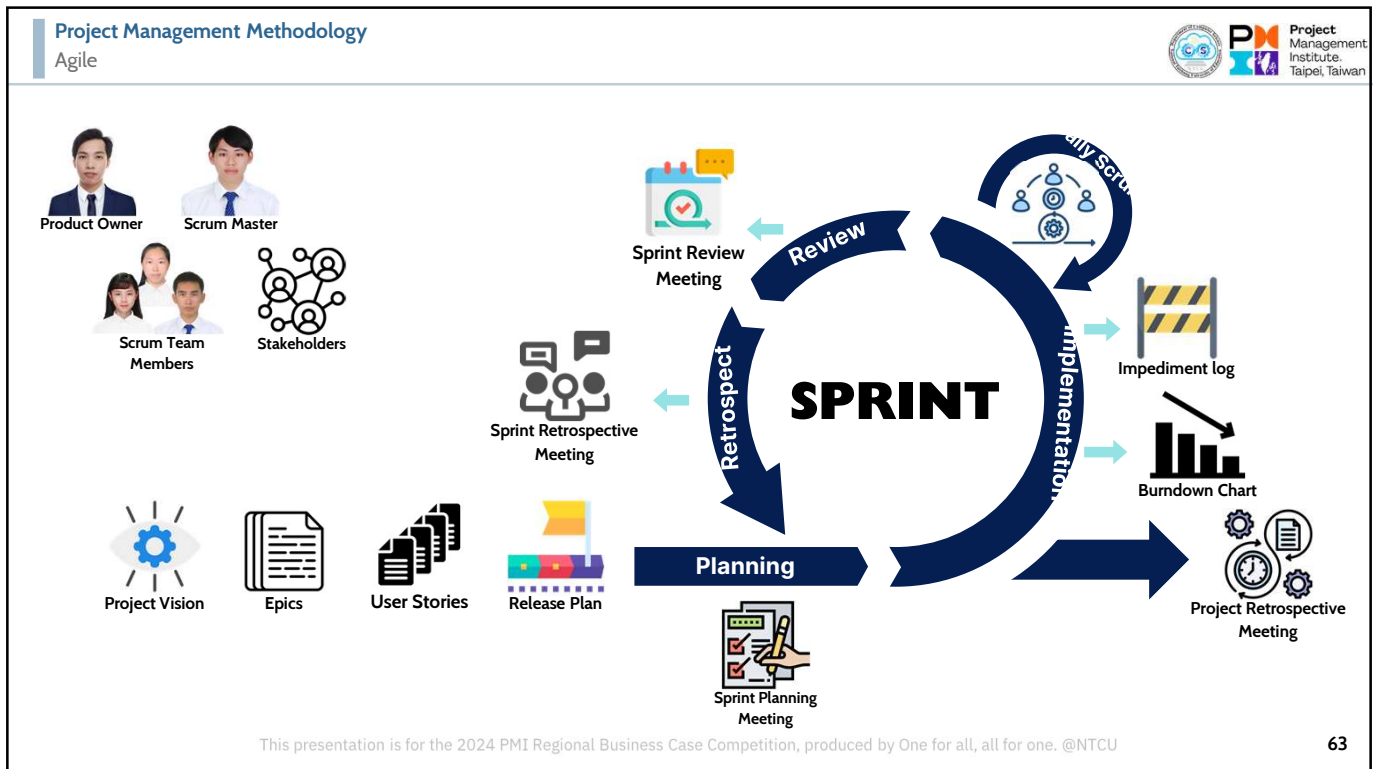
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Mitigation

- Utilize Cloud Platform and Services
- Auto scaling
- Distributed Systems

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Acknowledgment

Thank you PMI for organizing this competition.

We learned a lot professional knowledge of project management, and also understood that the team not only helped each other and cooperated, but also had a period of running-in. Fortunately, through unremitting communication, we finally completed our results and ushered in our period of style.

At the end we would like to express our deepest gratitude to all judges.

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