

Online Tutoring Web Application

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Proposal

Software Engineering



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1 Background

Existing web sites for sharing knowledge & solving problems

- Specialized in specific fields
- Focus on the solution & answer of question



Chegg

Homeworks
Give solution & answer



Qanda

Math, Korean, English
Give solution & answer

- Personalization of fields
 - : More **various fields** for everyone

Homework

Art / Painting

...

Code Review

App Design

- For giving **direction of solving problem**, not the answer of problem

(1) Live chat

: Questioners can Q&A with experts at online.

(2) Hint system

: Giving step-by-step hints for solving problem



User registration & authentication



Register various problems that need help
(ex. A programming assignment, math problem)



Attach reward for registered problems

3

Features



Allow experts to help registered problem with live explanations



Confirm helping progress and give reward to expert



Personalization of fields of interest

Tool & Framework: **Front-End**



vue.js

Open-source Framework
for Web Front-End



Bootstrap

Open-source Framework
for Responsive Web Design

Tool & Framework: **Back-End**



node.js

Open-source Framework
for Web Server



MySQL

Open-source RDBMS



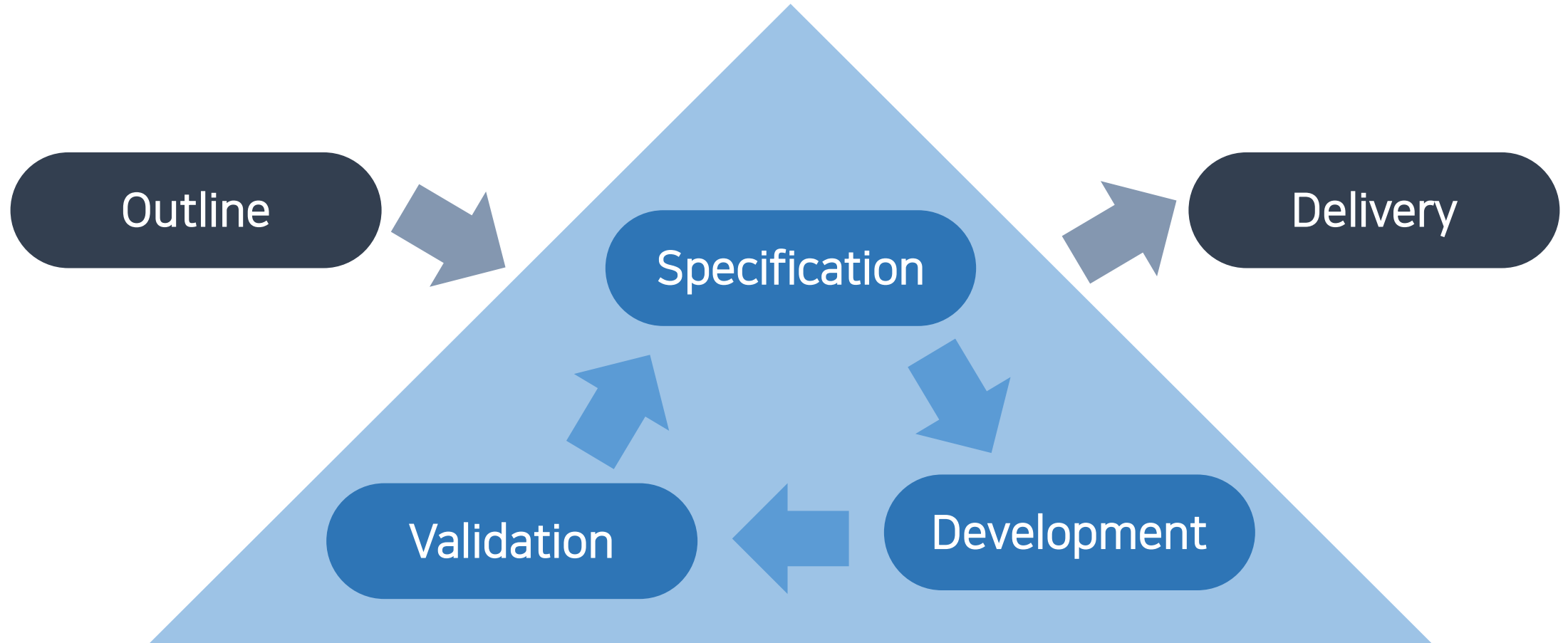
WebRTC

Open-source API for
Real-time Communication

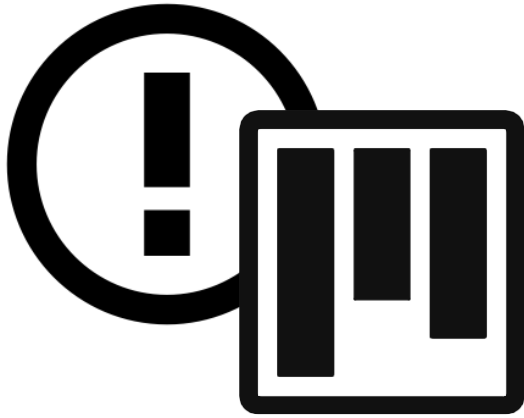
4

Develop

Development Model: **Incremental development**

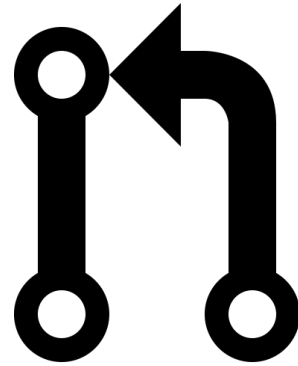


Tool & Framework: **Github**



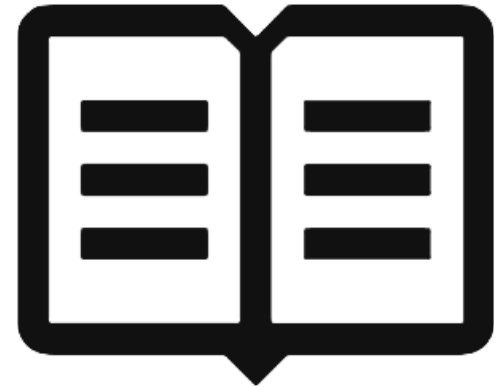
Issue & Project

Issue-tracking with
Milestone & Kanban board



Pull Request

Used in code review



Wiki

Markdown document

Plan

Plan with Gantt Chart

[illegible]

Thanks!