StudyBuddy

BPMN Diagram

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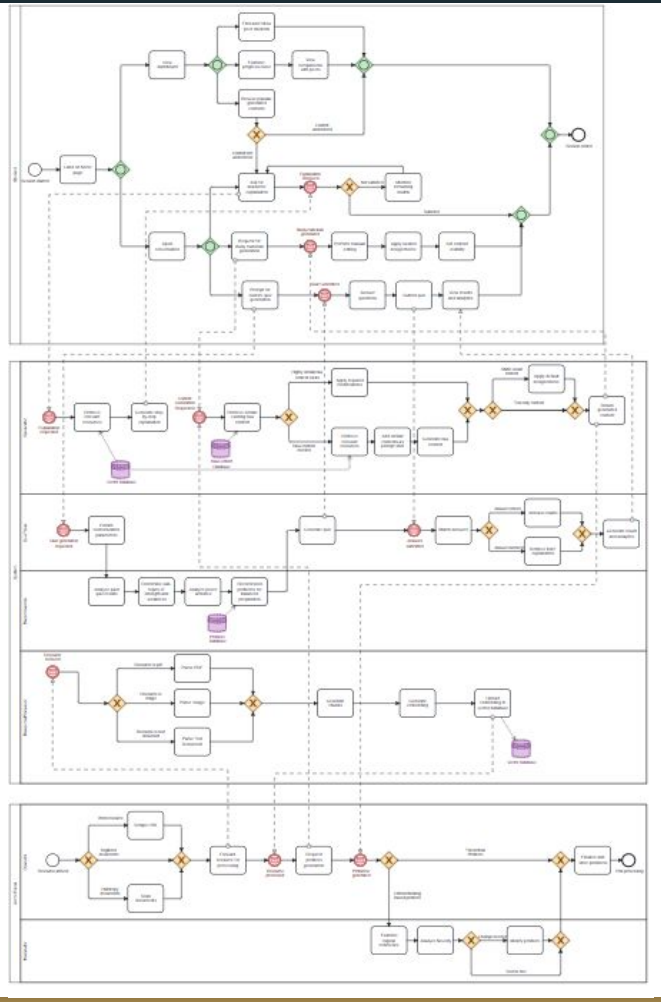
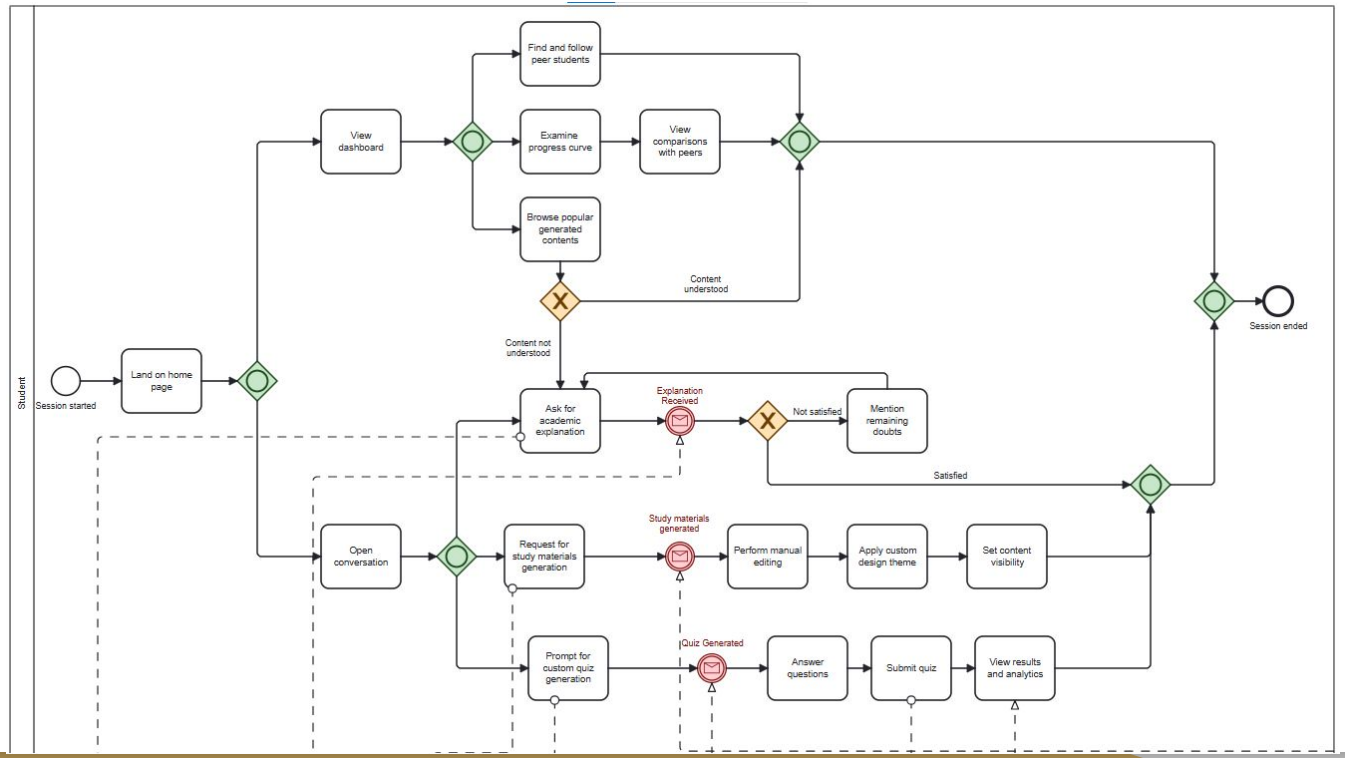
BPMN Diagram



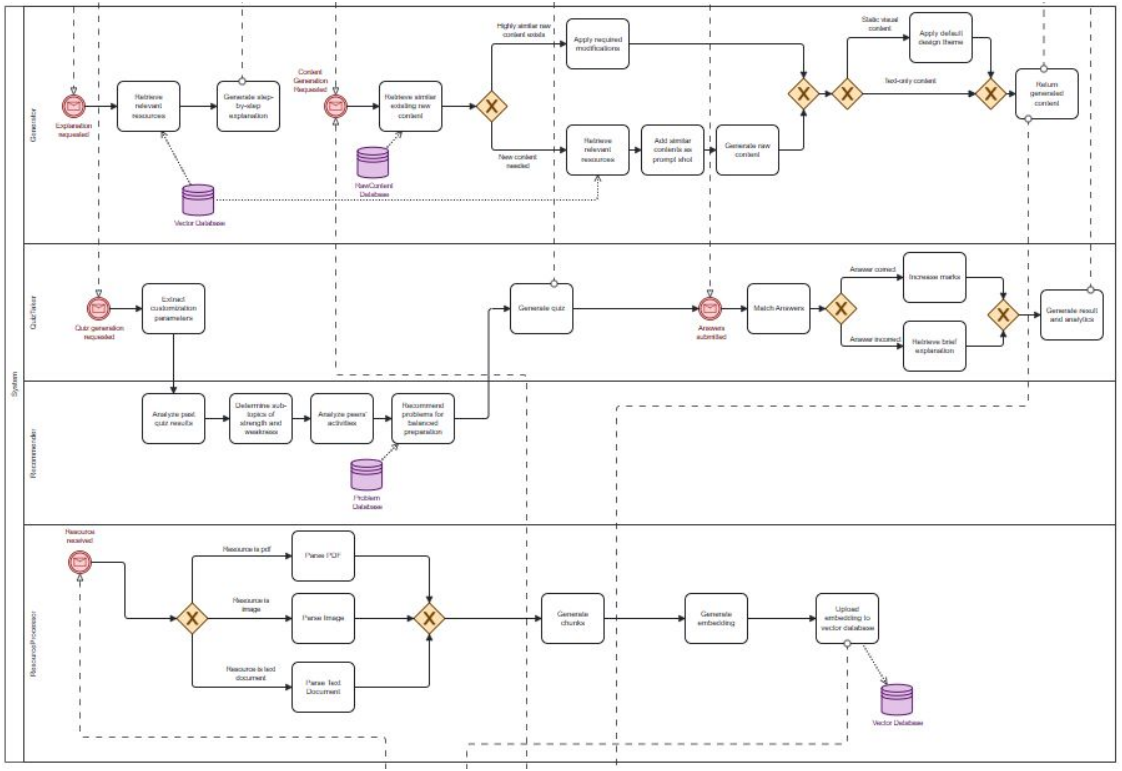
Pools and Lanes

- Student Pool
- System Pool
  - Generator Lane
  - QuizTaker Lane
  - Recommender Lane
  - ResourceProcessor Lane
- AdminPanel Pool
  - Operator Lane
  - Moderator Lane

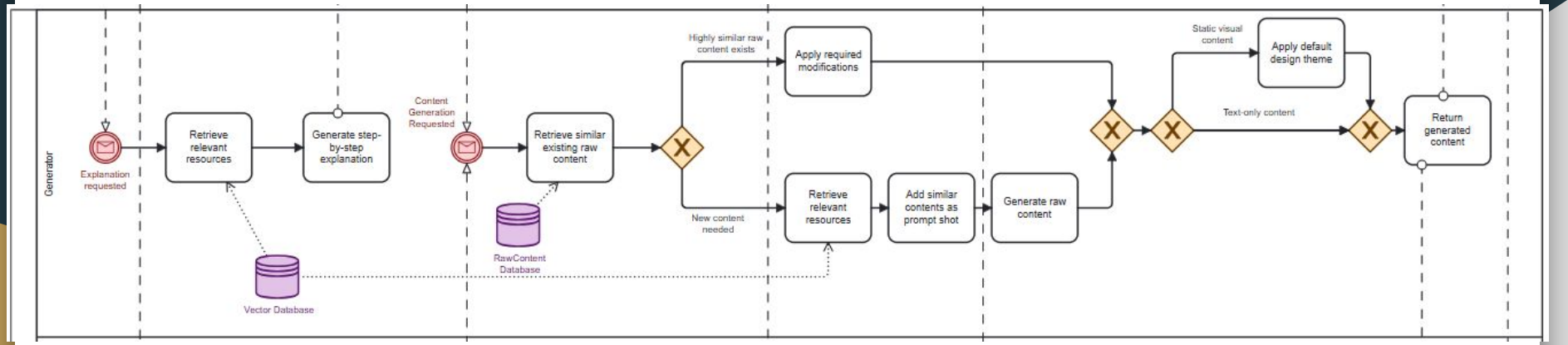
Student Pool



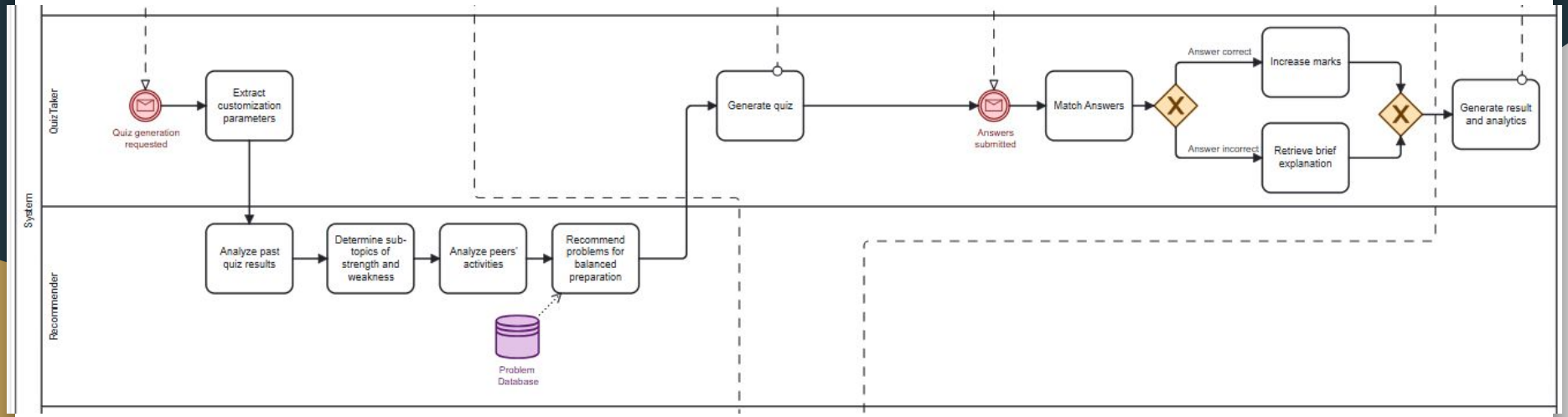
System Pool


System
Explanation requested
Retrieve relevant resources
Generate step-by-step explanation
Vector Database
Content Generation Requested
Retrieve similar existing new content
NewContent Database
Highly similar new content exists
Apply required modifications
New content needed
Retrieve relevant resources
Add similar contents as prompt shot
Generate new content
Static visual content
Apply default design theme
Text-only content
Return generated content
Quiz generation requested
Extract customization parameters
Generate quiz
Answers submitted
Match Answers
Answer correct
Increase marks
Answer incorrect
Retrieve brief explanation
Generate result and analytics
Analyze past quiz results
Determine sub-topics of strength and weakness
Analyze peers' activities
Recommend problems for balanced preparation
Problem Database
Resources received
Resource is pdf
Parse PDF
Resource is image
Parse Image
Resource is text document
Parse Text Document
Generate chunks
Generate embedding
Upload embedding to vector database
Vector Database

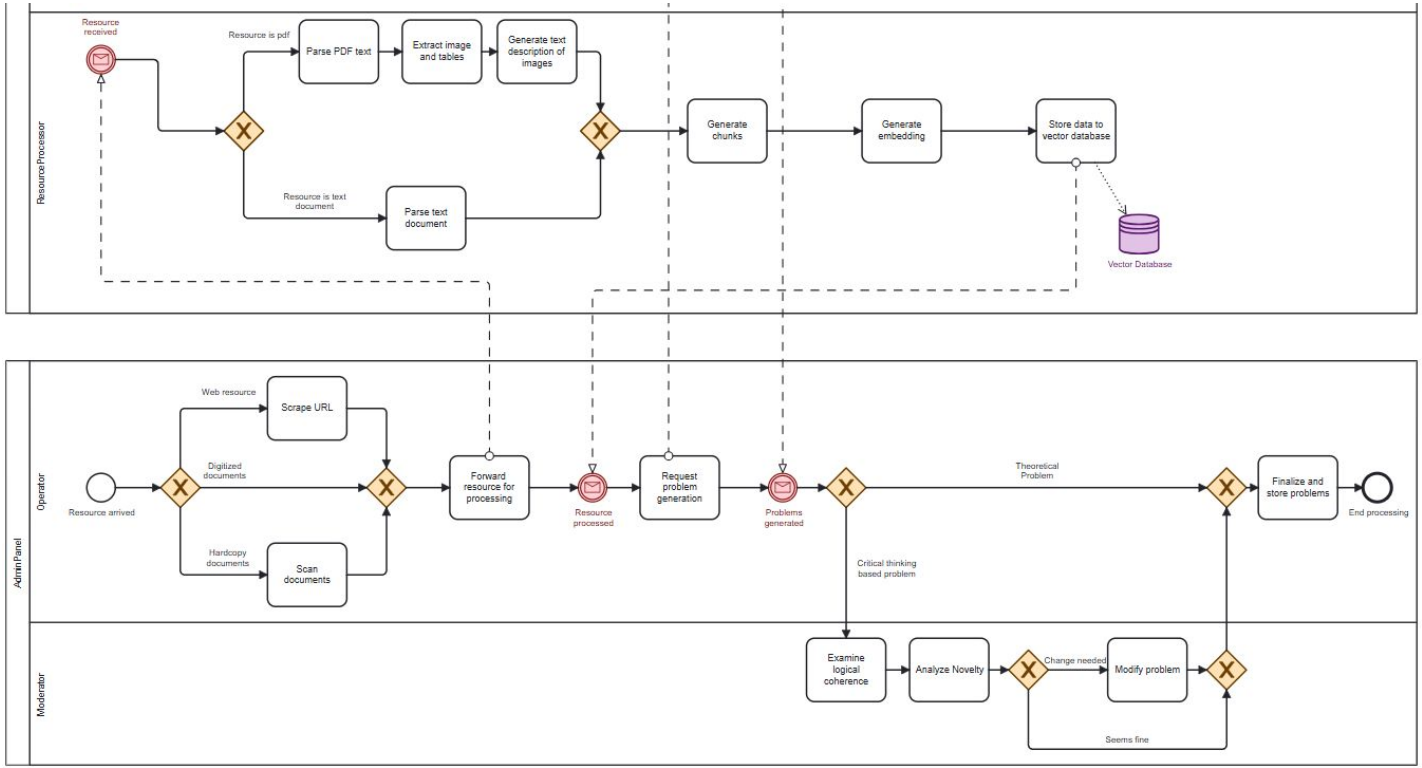
System Pool - Generator Lane



System Pool - QuizTaker and Recommender Lane



System Pool - ResourceProcessor Lane and AdminPanel Pool



Thank You