

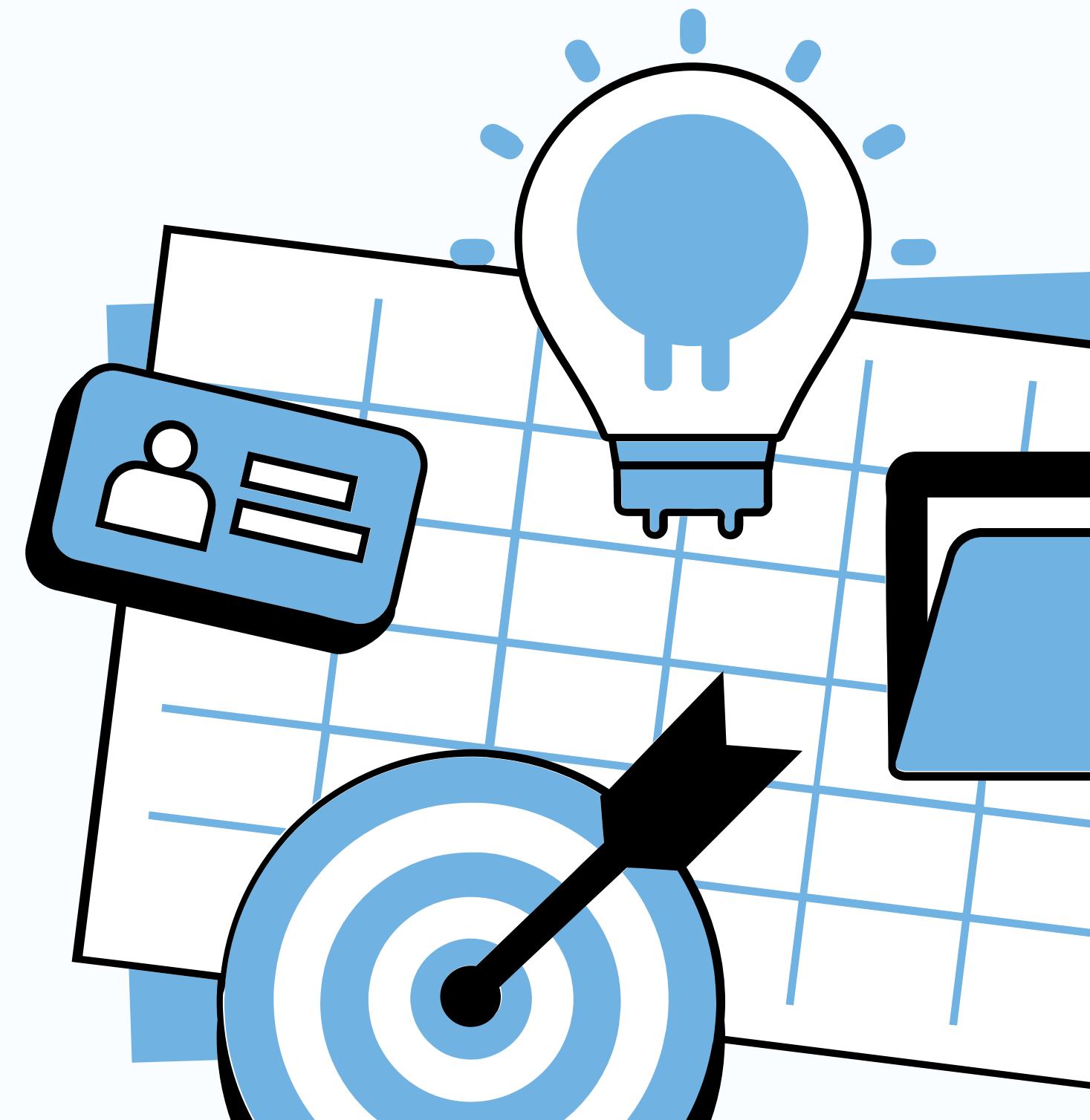
FLIGHT PATH: AI-POWERED ASSESSMENT AND PERSONALIZED RECOMMENDATION

Group 10 – WASD

Systems Analysis & Detailed Design for CS-SS
SSYADD - SS231

Client: UpsWing!

Mr. Jose Eugenio L. Quesada



OUR TEAM



Andrei Luis M. Torres
Team Leader



John Michael Maala
Secretary



Justin Bryden G. Arroco
Assistant



Don Victor Idos
Product Owner and Lead
Programmer



Manuel L. Calimlim, Jr.
Project Adviser

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PM DOCUMENTS

CHAPTER 2

CHARTER

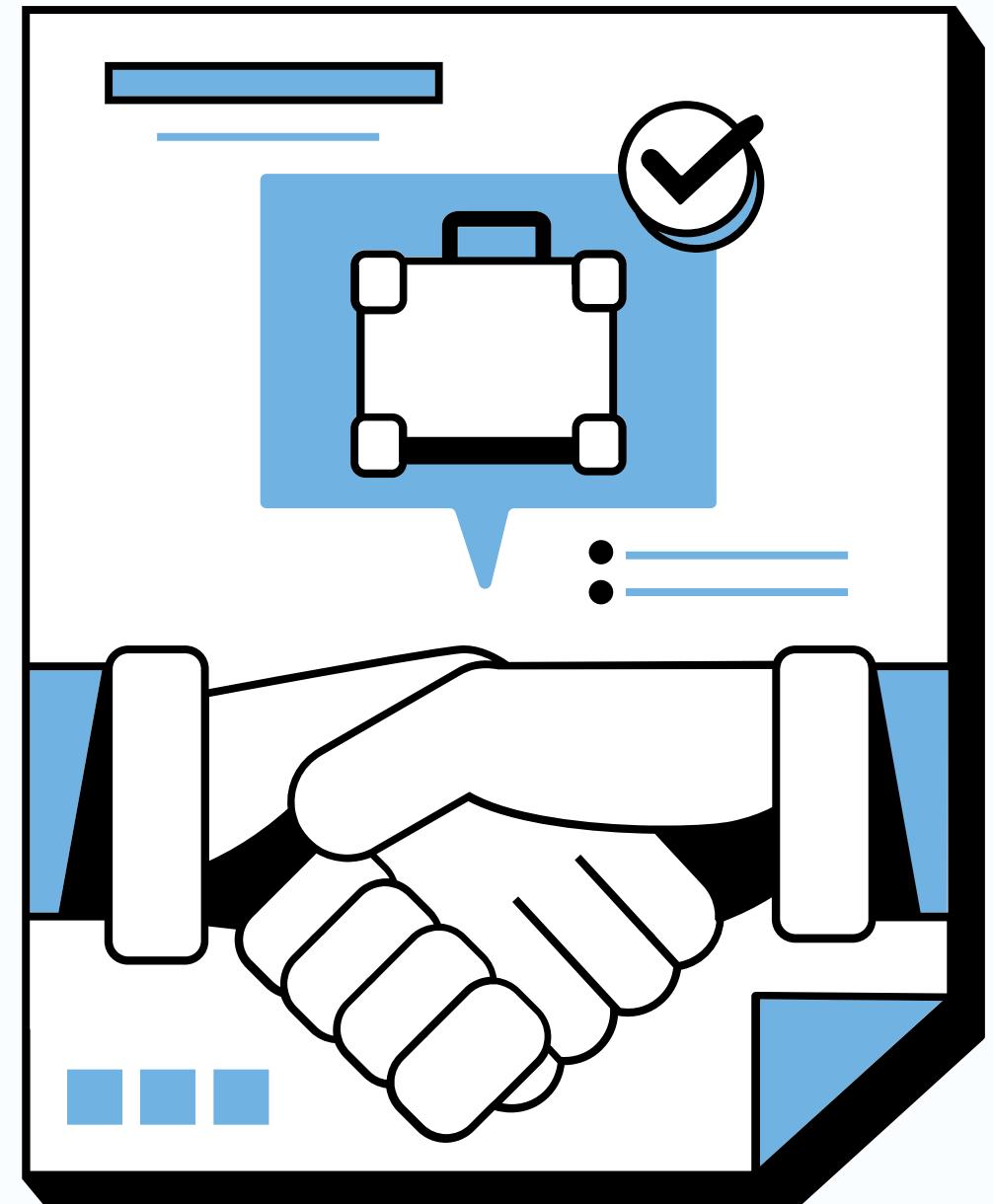


John Michael Maala

Project Purpose: To replace the time-consuming, manual assessment and placement processes at UpsWing! with a modern AI system for faster, more accurate, and consistent student placement.

Project Description: An API-ready backend system with three core modules:

- Assessment Module
- Recommendation Engine
- Administrative Tools



CHARTER

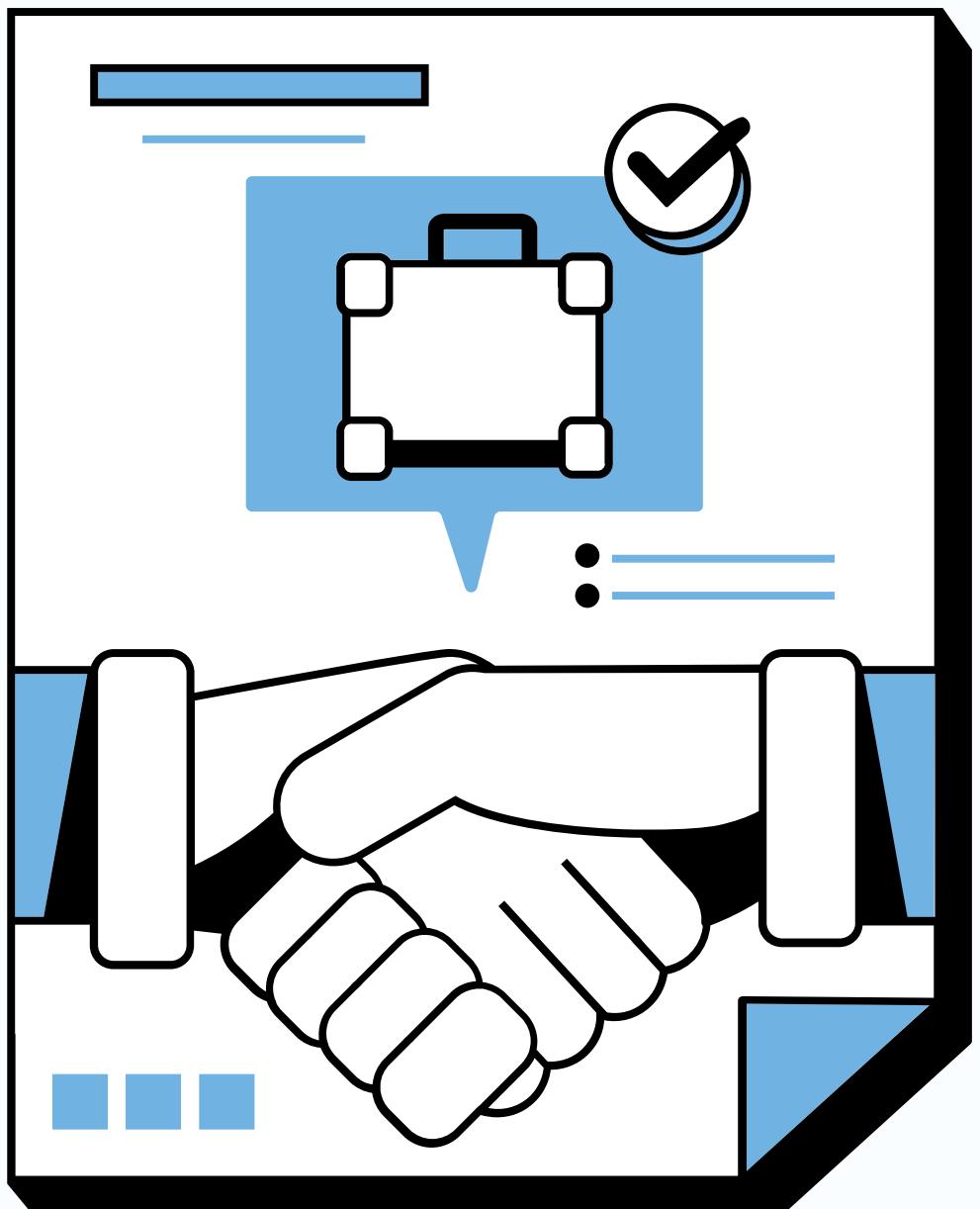


John Michael Maala

Timeline: April 2025 – February 2026

Budget: ₱102,200.00 total, covering labor (₱61k) and materials (₱41.2k).

Project Manager: Andrei Luis M. Torres, responsible for overall coordination, team leadership, and final decision-making.



SCOPE



Justin Bryden G. Arroco

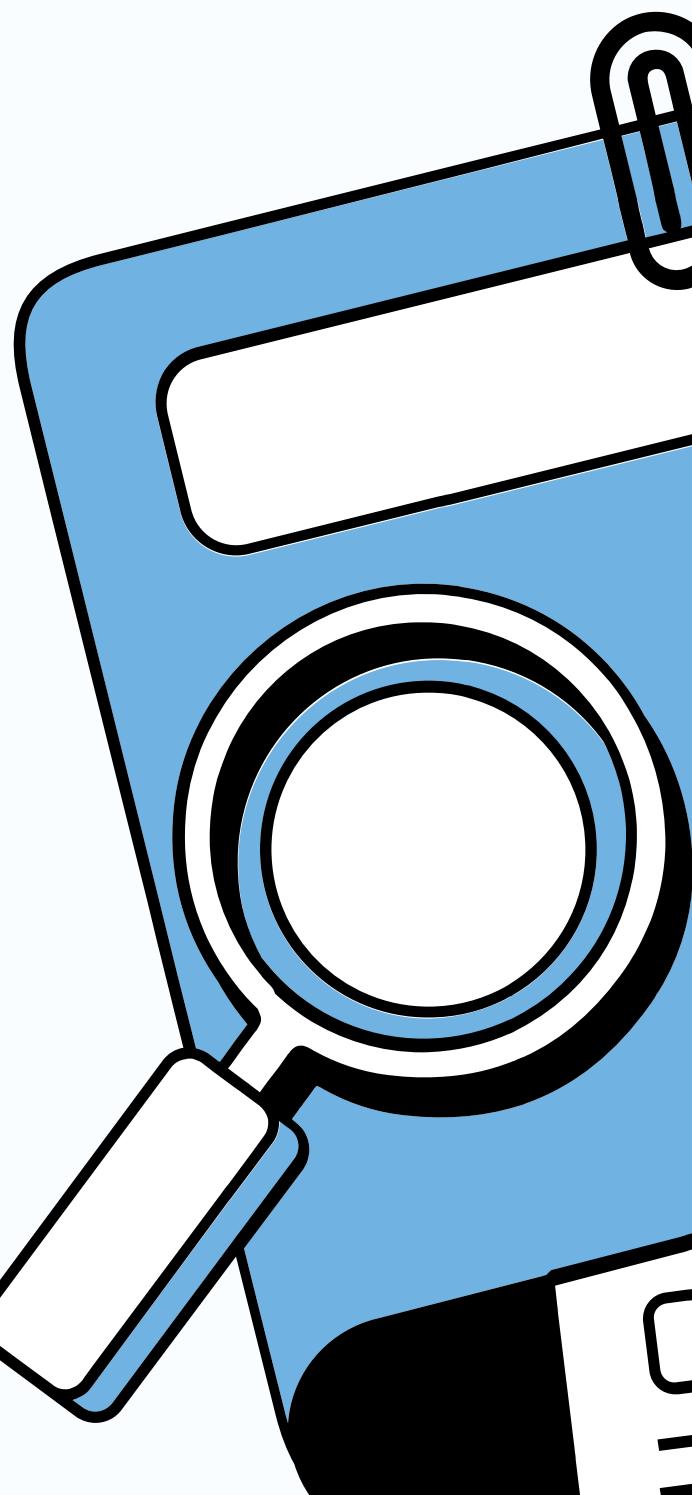
Project Goal: Develop an AI-powered system for UpsWing! to automate English language assessment and create personalized learning paths.

In Scope:

- Backend components: Adaptive Assessment Module, AI-Powered Non-Adaptive Speaking Assessment Module, Learner Recommendation Engine, and administrative tools.
- Deliverables are API-ready for client integration.

Out of Scope:

- Front-end UI/UX and data flow integration.
- Multilingual support.



OBJECTIVES

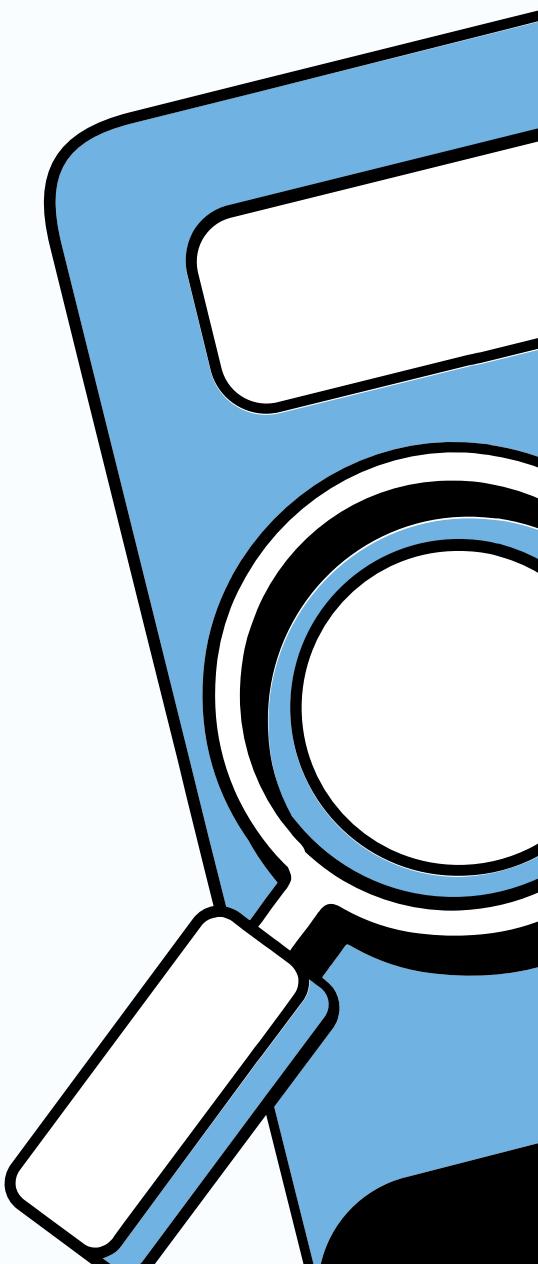
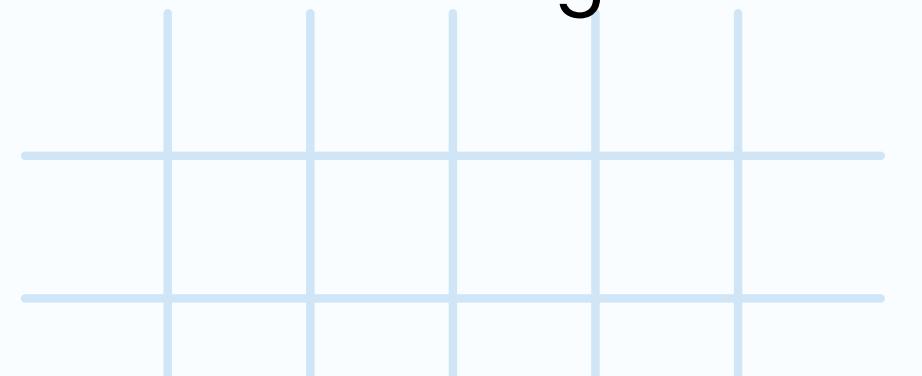


Justin Bryden G. Arroco

Overall Objective: Automate proficiency testing and generate personalized learning paths for UpsWing! students.

Specific Goals:

- Assessment: Launch a system within 6 months with at least 90% accuracy in classifying learners.
- Speaking Module: Integrate an AI module by the end of development to reduce manual evaluation time by at least 70%.
- Recommendation Engine: Implement a data-driven engine within 4 months of deployment, achieving at least 85% alignment with expert recommendations.



STAKEHOLDER ANALYSIS



Don Victor L. Idos

Name	Department / Company	Position	Advisers	Objectives, Requirements, Interests	Influence	Project Contribution	Resistance
Upswing	ESL Company	Organization/Client		Ensure project meets organizational goals and product quality.	High	Provides budget, approves major decisions, sets priorities and requirements, feedbacks and recommendation, and overall project information.	Concerns about scope or budget.
Manuel L. Calimlim	Asia Pacific College	Project Adviser		Ensure project meets organizational goals and product quality.	High	Provides supervision and academic guidance, and general project recommendations	Concerns about overall project quality
Felino Calderon	Asia Pacific College	Project Consultant		Ensures project meets technical requirements and scope.	High	Guides technical implementation and design choices, and general project recommendations	Concerns about overall project quality
Tutors	Upswing	ESL Tutors	Upswing Academic Department	Requires fair and accurate CEFR placement and clear diagnostic feedback that aligns with course preparation.	Medium	End users, and provides feedback	Concerns about system accuracy and fairness.
Students	Upswing	ESL Students		Requires fair and accurate CEFR placement, and diagnostic feedback, and receive appropriate learning path recommendations	High	End users, and provides feedback	Concerns about their overall student experience including test fairness, and appropriateness of recommended learning path
W.A.S.D	Asia Pacific College	Development Team	Project Adviser, Project Consultant	Deliver a functional FlightPath system that meets project requirements, satisfies client needs, and aligns with academic standards.	High	Core builders of the system (FlightPath)	Time/resource constraints, project technicality, achievable project goals
Admins	Upswing	Academic/Operation Department		Requires accurate placement and diagnostic results, and appropriate learning path recommendations.	High	End users, and provides feedbacks	Inaccurate assessment system and recommendation engine

- Client (Upswing!) – ESL program provider, commissioning the system
- ESL Students – end users, taking placement & diagnostic tests
- Parents – decision-makers who select learning plans, and monitor their child's progress
- Admin – reviewing results, learning path assignments

DESIGN THINKING

STAGES

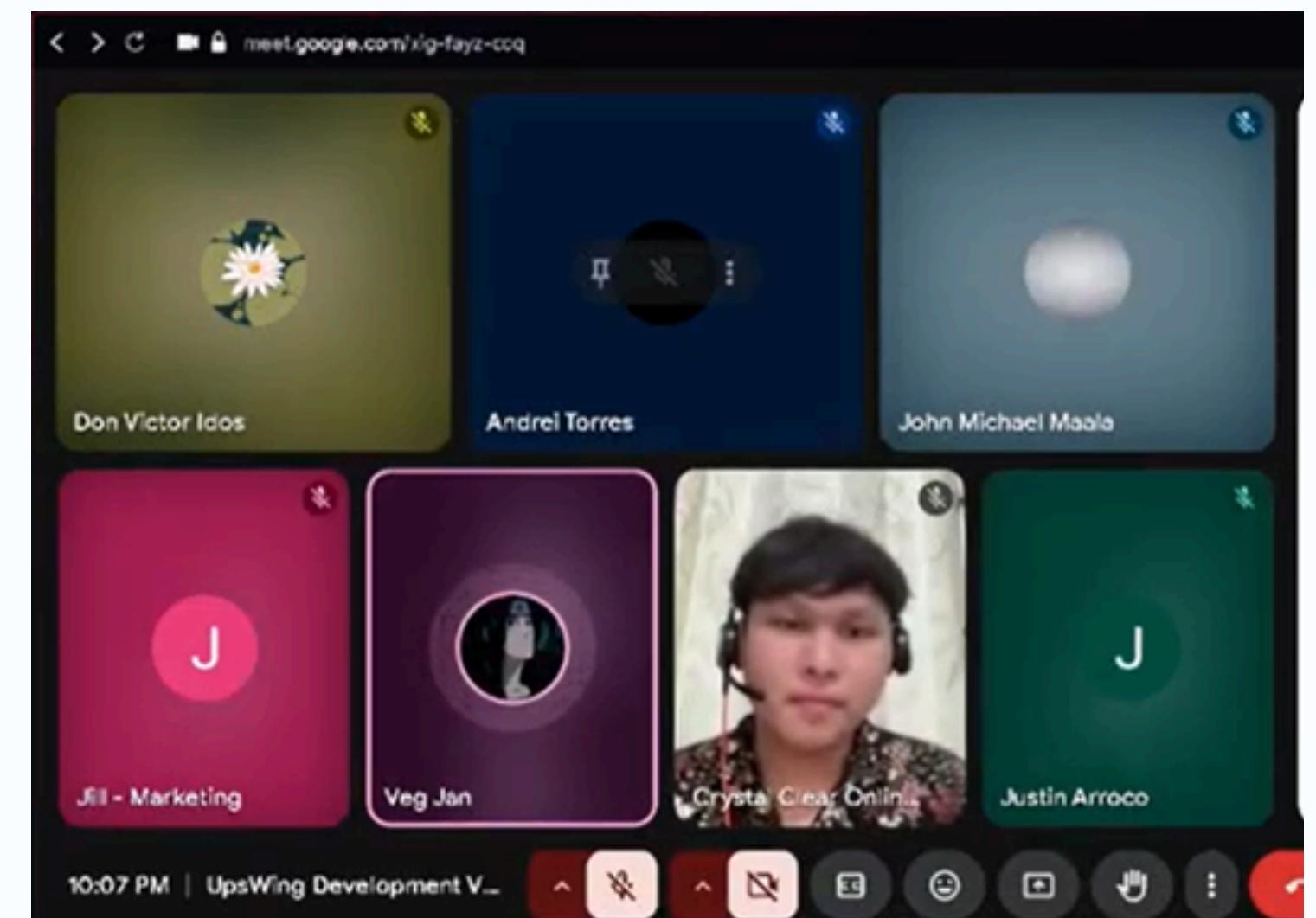
STAGE 1 – EMPATHIZE



Andrei Luis M. Torres

Purpose

- Understand users and stakeholders deeply.
- Look beyond stated needs to uncover real frustrations, motivations, and behaviors.
- Build empathy with learners, parents, tutors, and administrators



THINK & FEEL

(Admins)

- Manual assessments waste time
- Too much effort on scheduling/placement
- System can't scale with growth
- Automation brings efficiency and accuracy

(Students)

- Frustrated by slow onboarding
- Stressed by inconsistent assessments
- Optimistic about accurate personalization
- Will the placements be accurate?
- Is the system effective?

ESL CHINESE STUDENT

HEAR

(Students)

- Media that has the English language (like films and online videos)
- Parents: don't waste money on redundant courses.
- Teachers: emphasize strategy over quantity.
- Peers: random tutors and courses.
- Admins: recommending courses manually.

(Admins)

- Tutors saying that advanced students are mixed with beginners.
- Students complaining that the tutor doesn't match their needs.

(Students)

- Initiate inquiries through messaging platforms
- Fill out online forms
- Take placement test or diagnostic tests provided by the ESL client handler
- Select and confirm learning plans

SEE

- They see long, manual onboarding processes before they can start classes
- They see tests that focus mostly on reading and writing, with speaking judged separately.
- They see delays in feedback and course recommendations

SAY & DO

PAIN

(Students)

- Misplacement frustration
- Slow onboarding
- Lack of personalization

(Admins)

- Bottlenecks from manual scheduling and placement
- Scalability limits as enrollment increases
- Fragmented tools causing confusion and errors

(Students)

- Accurate placement into the right level
- Faster results with instant feedback
- Personalized learning paths tailored to strengths and weaknesses
- Fair assessments through consistent AI-driven evaluation

GAIN

(Admin)

- Streamlined processes with reduced manual work
- Scalable system that can handle more students efficiently
- Centralized data for easier tracking and reporting
- Improved accuracy in placement and recommendations

STAGE 1 – EMPATHIZE

Open-Ended Questions

Andrei Luis M. Torres

1. What is the core problem with the current system?

- Current System too slow and manual

2. What does a successful solution look like?

- CAT for reading & listening
- AI scoring for speaking & writing
- Instant, CEFR-aligned results
- Personalized learning paths for student

3. What are the most important constraints and requirements?

- Backend system that can be integrated to their platform



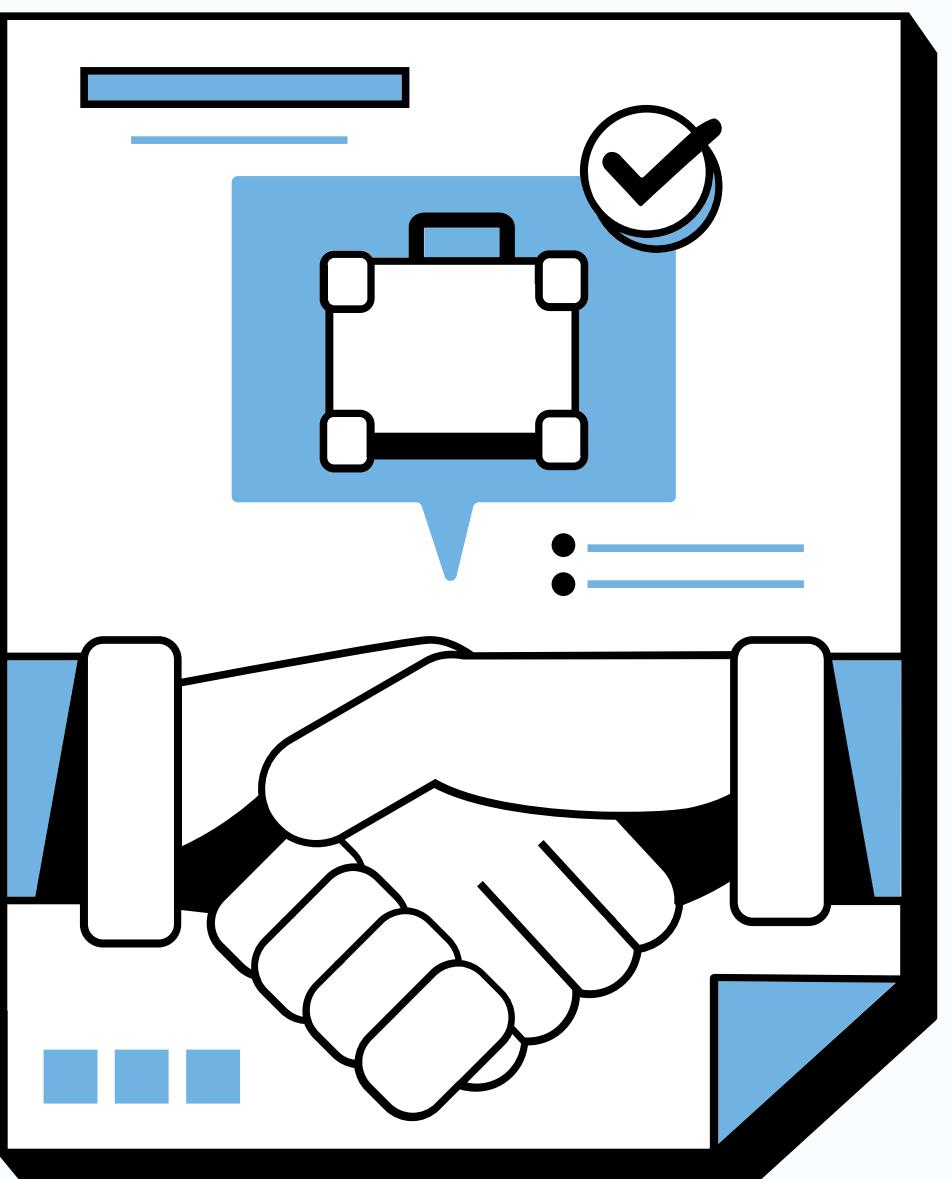
STAGE 1 – EMPATHIZE



Andrei Luis M. Torres

User Personas & Their Pain Points

- Students – frustrated with slow evaluation and feedback cycle
- Tutors – needs to infer from test results manually
- Admins – burdened by manual and repetitive evaluations, scalability issues.



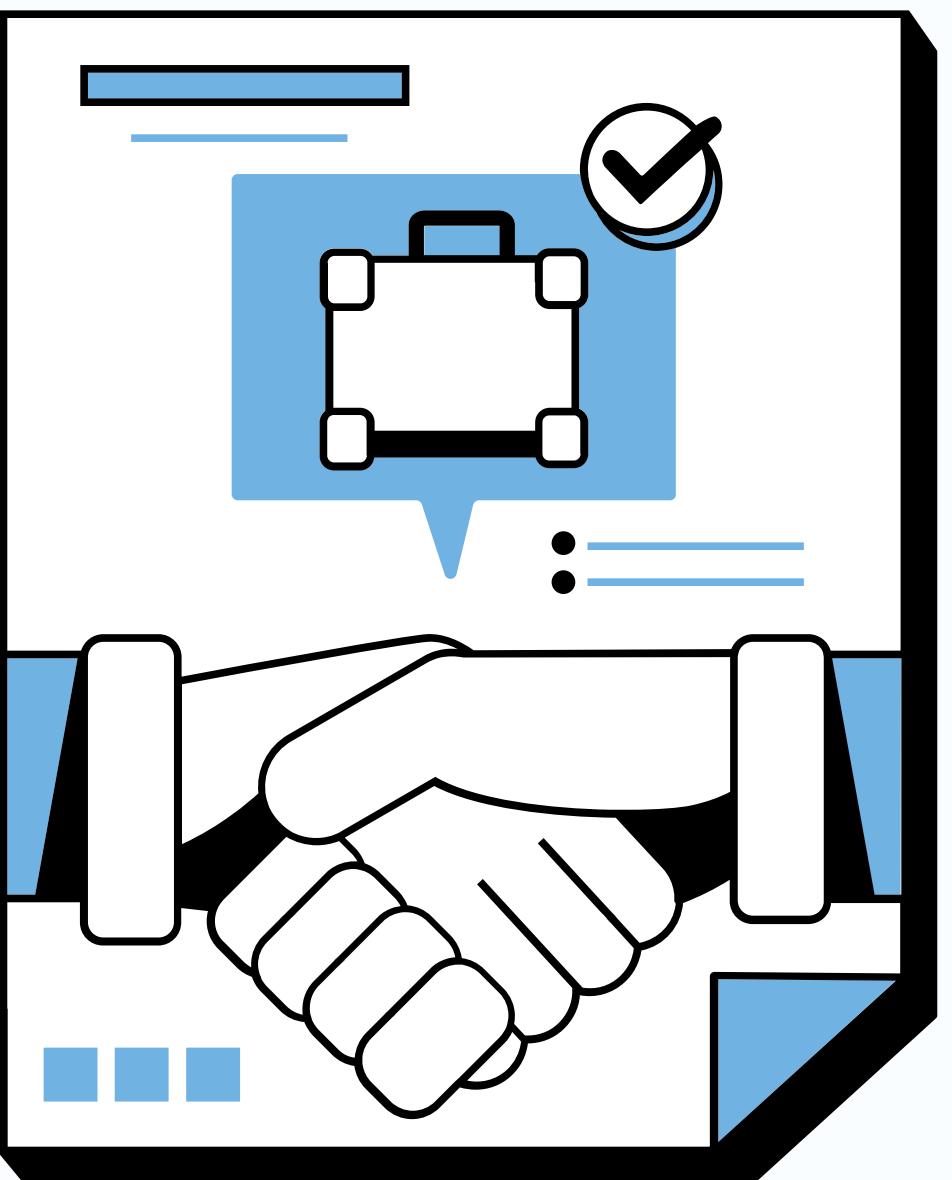
STAGE 1 – EMPATHIZE



Andrei Luis M. Torres

5 whys?

- 1. Why? Manual process is too slow** → time-consuming and inefficient.
- 2. Why? Relies on coordinators/tutors** → creates bottlenecks.
- 3. Why? Slow & inconsistent placement** → delays students from starting properly.
- 4. Why? Delays + uncertainty** → poor engagement and frustration.
- 5. Why? Student frustration from inaccurate, delayed placement** → low retention & limited business growth.



STAGE 2 - DEFINE



Andrei Luis M. Torres

Purpose

- Turn Empathize insights into a clear problem definition.
- Ensure the challenge is human-centered and actionable.



STAGE 2 - DEFINE



Andrei Luis M. Torres

Problem Statement

UpsWing!'s ESL assessment is manual, inconsistent, and hard to scale, leading to:

- Inaccurate student placement
- Heavy admin workload
- Reduced learner engagement



STAGE 2 - DEFINE



Andrei Luis M. Torres

POV Statements

- Students → Need faster, accurate placement to stay motivated.
- Admins → Need automation to reduce repetitive workload.
- Tutors → Need reliable placement to avoid bias and mismatches.



STAGE 2 - DEFINE



Andrei Luis M. Torres

“How Might We” Questions

- HMW automate placement while keeping CEFR rigor?
- HMW cut admin workload and improve onboarding?
- HMW give instant, reliable results to boost motivation?
- HMW use AI for speaking/writing to scale and reduce bias?



STAGE 2 - DEFINE



Andrei Luis M. Torres

Success Criteria

- ± 1 CEFR level accuracy.
- Cut administrative time for onboarding by at least 50%.
- Provide placement results instantly to learners
- Recommends appropriate learning resources in terms of CEFR level



STAGE 3 – IDEATE



Don Victor L. Idos

ADAPTIVE ASSESSMENTS

- Computerized Adaptive Testing (CAT) as the suggested approach.
- Use of Psychometric models such as Multidimensional Item Response Theory (MIRT)

NON-ADAPTIVE ASSESSMENTS

- The test does not adjust in difficulty as the person answers but is already appropriate for the student's current level
- Incorporates voice recognition and AI-based speaking assessment to evaluate pronunciation and fluency

STAGE 3 – IDEATE



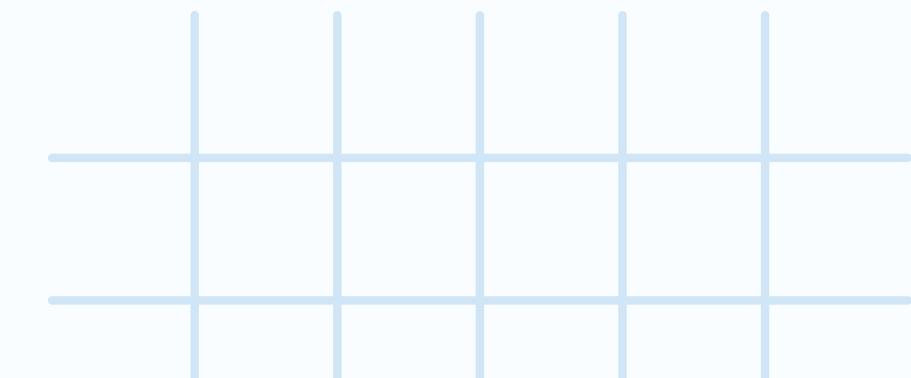
Don Victor L. Idos

PERSONALIZED LEARNING RECOMMENDATION ENGINE

- Analyzes test results
- CEFR Level Mapping
- Suggests targeted courses/tutors matched to learner strengths/weaknesses.

ADMIN & TUTOR TOOLS

- Real-time updates, skill breakdowns, for tracking learner results.
- Exportable results and reports.



STAGE 4 – PROTOTYPE

Master English,
One Step at a Time
Take a quick test and get the
perfect course for your level.

[Take the Free Assessment](#)



How it Works

1 Take the Assessment Test → 2 Get your English Level → 3 Start your Personalized Course

Why Choose Us?

- Personalized Courses for YOUR level.
- Learn at your own pace.
- Designed for non-native speakers.
- Certificates after completing a course.

[Start your Journey Now.](#)

Welcome to the UpsWing!
Assessment test

You will answer a few questions to help us assess
your English speaking level.

Grammar
Vocabulary
Speaking test (audio input)

[Start Test](#)

← Question 2 of 5

Choose the correct word:
She ___ to the store.

goes
gone
go
goose

[Next](#)



Justin Bryden G. Arroco

STAGE 4 – PROTOTYPE



Justin Bryden G. Arroco

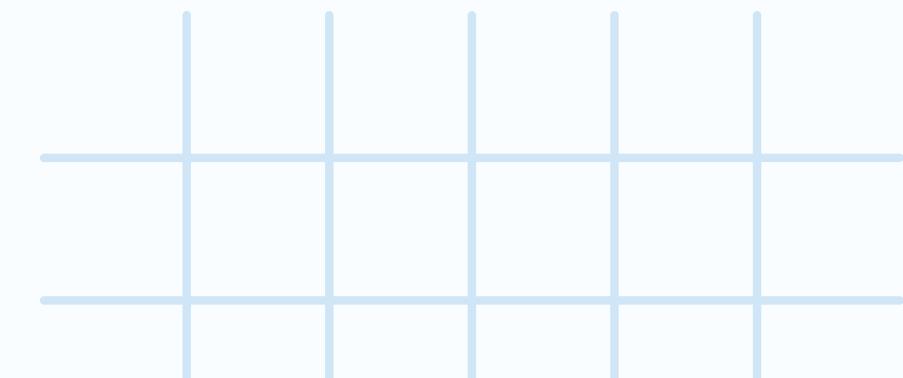
Speaking Assessment

Read the prompt below and press the record button to begin. Your response will be analyzed for transcription accuracy.

Prompt:

"The quick brown fox jumps over the lazy dog."

Start Recording



STAGE 4 - PROTOTYPE

Your Results Are In!

A2 - Elementary

Based on your responses we recommend the
A2 personalized course.

[Start Personalized Course](#)

[Retake Assessment](#)



Justin Bryden G. Arroco

STAGE 4 - PROTOTYPE



Justin Bryden G. Arroco

```
--- Iteration 2 ---
Selected item ID: 5
Question: Identify the correct use of the passive voice.
  1. They built the house.
  2. The house built them.
  3. The house was built by them.
  4. They are building the house.
Your answer (1-4): 3
User answered: 3 (Correct: 3, Correct)
Responses so far: {np.int64(2): 1, np.int64(5): 1}
Updated ability estimate (theta): [4. 4. 4. 4.]

--- Iteration 3 ---
Selected item ID: 6
Question: What is the synonym for 'ubiquitous' ?
  1. rare
  2. common
  3. scarce
  4. unique
Your answer (1-4): 4
User answered: 4 (Correct: 2, Incorrect)
Responses so far: {np.int64(2): 1, np.int64(5): 1, np.int64(6): 0}
Updated ability estimate (theta): [-1.41638294 1.83735978 -1.52941618 -2.32064895]

--- Iteration 4 ---
Selected item ID: 17
Question: Choose the best definition for 'ephemeral'.
  1. lasting a short time
  2. lasting forever
  3. difficult to understand
  4. easy to remember
Your answer (1-4): 1
User answered: 1 (Correct: 1, Correct)
Responses so far: {np.int64(2): 1, np.int64(5): 1, np.int64(6): 0, np.int64(17): 1}
Updated ability estimate (theta): [ 4.          -0.48795583   4.          -3.17520385]
```

```
Selected item ID: 12
Question: Select the antonym for 'benevolent'.
  1. kind
  2. generous
  3. malevolent
  4. compassionate
Your answer (1-4): 4
User answered: 4 (Correct: 3, Incorrect)
Responses so far: {np.int64(2): 1, np.int64(5): 1, np.int64(6): 0, np.int64(17): 1, np.int64(20): 0, np.int64(16): 0, np.int64(14): 0, np.int64(12): 0}
Updated ability estimate (theta): [-4.          1.81664432 1.55467291 -4.          ]]

--- Iteration 9 ---
Selected item ID: 4
Question: Which sentence demonstrates correct parallel structure?
  1. He likes to swim, to bike, and run.
  2. He likes swimming, biking, and to run.
  3. He likes to swim, to bike, and to run.
  4. He likes swimming, biking, and running.
Your answer (1-4): 2
User answered: 2 (Correct: 3, Incorrect)
Responses so far: {np.int64(2): 1, np.int64(5): 1, np.int64(6): 0, np.int64(17): 1, np.int64(20): 0, np.int64(16): 0, np.int64(14): 0, np.int64(12): 0, np.int64(4): 0}
Updated ability estimate (theta): [-4.          1.92537762 1.20765278 -4.          ]]

--- Iteration 10 ---
Selected item ID: 1
Question: Which sentence uses the present perfect tense correctly?
  1. She has go to the market.
  2. She have gone to the market.
  3. She has gone to the market.
  4. She is going to the market.
Your answer (1-4): 1
User answered: 1 (Correct: 3, Incorrect)
Responses so far: {np.int64(2): 1, np.int64(5): 1, np.int64(6): 0, np.int64(17): 1, np.int64(20): 0, np.int64(16): 0, np.int64(14): 0, np.int64(12): 0, np.int64(4): 0, np.int64(1): 0}
Updated ability estimate (theta): [-4.          1.93332201 1.18216407 -4.          ]]

Test finished. Final estimated ability (theta): [-4.          1.93332201 1.18216407 -4.          ]
```

STAGE 5 – TESTING



Don Victor L. Idos

CURRENT IMPLEMENTATION

- Developed a working model of IRT and MIRT in Python.
- Runs through a CLI (command-line interface), simulating how adaptive testing logic works.

PROTOTYPE PURPOSE

- Demonstrates how adaptive testing differs from fixed testing in practice.
- Show how it functions in practice and sets the stage for later calibration.

STAGE 5 – TESTING

CLIENT FEEDBACK

1. The adaptive questioning flow is clear and shows how the test adjusts to student performance.
2. The current output is still technical (theta values) and not yet meaningful for educators or parents.
3. The system successfully demonstrates proof-of-concept for adaptive vs. fixed testing, even without polished reporting.
4. We (clients) may need to focus on properly tweaking and calibrating the item parameters once the full item bank is available.

Don Victor L. Idos

```
--- Iteration 2 ---
Selected item ID: 5
Question: Identify the correct use of the passive voice.
1. They built the house.
2. The house built them.
3. The house was built by them.
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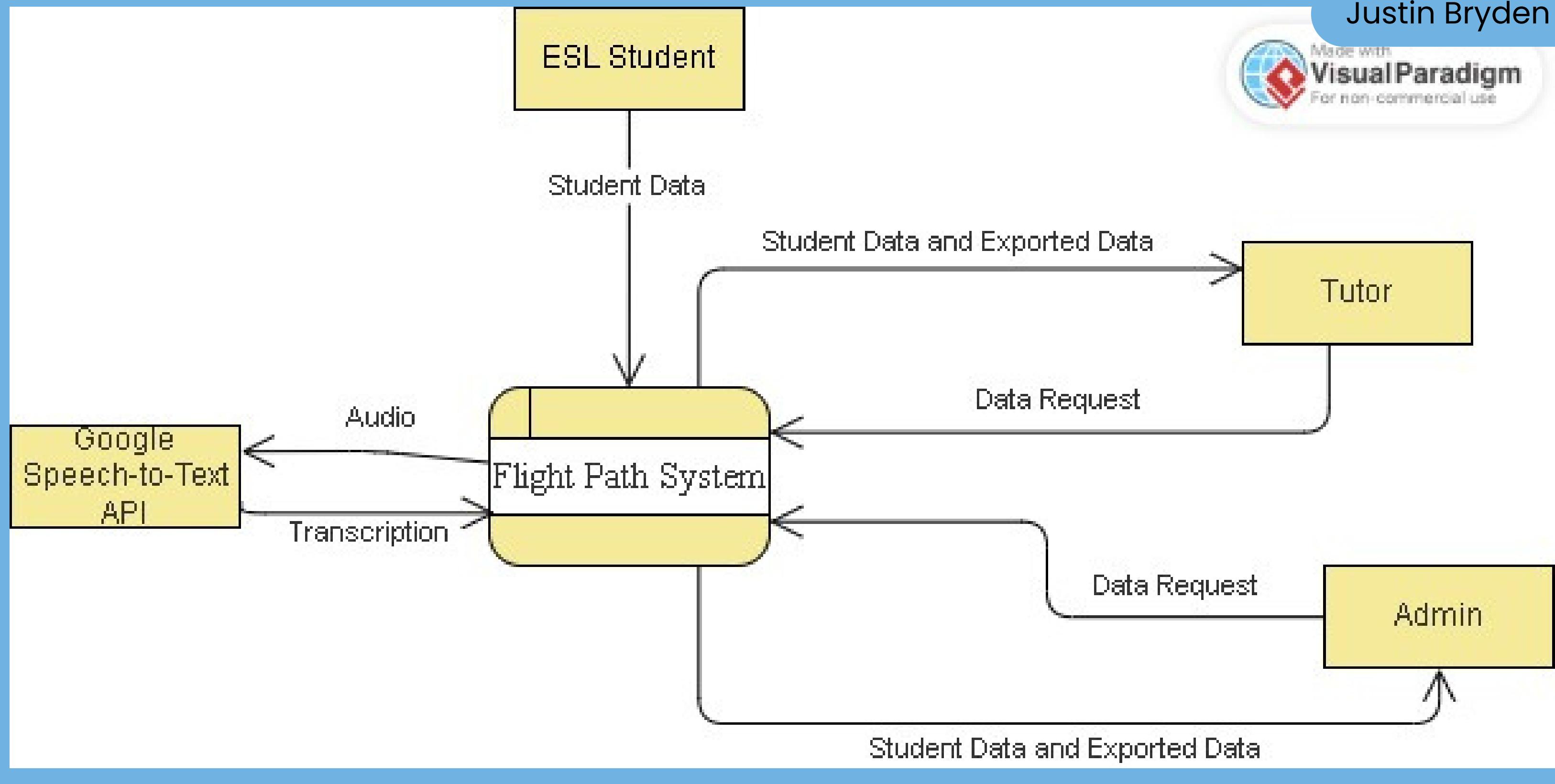
--- Iteration 3 ---
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Updated ability estimate (theta): [ 4.          -0.48795583  4.          -3.17520385]
```

LEVEL 0 DFD

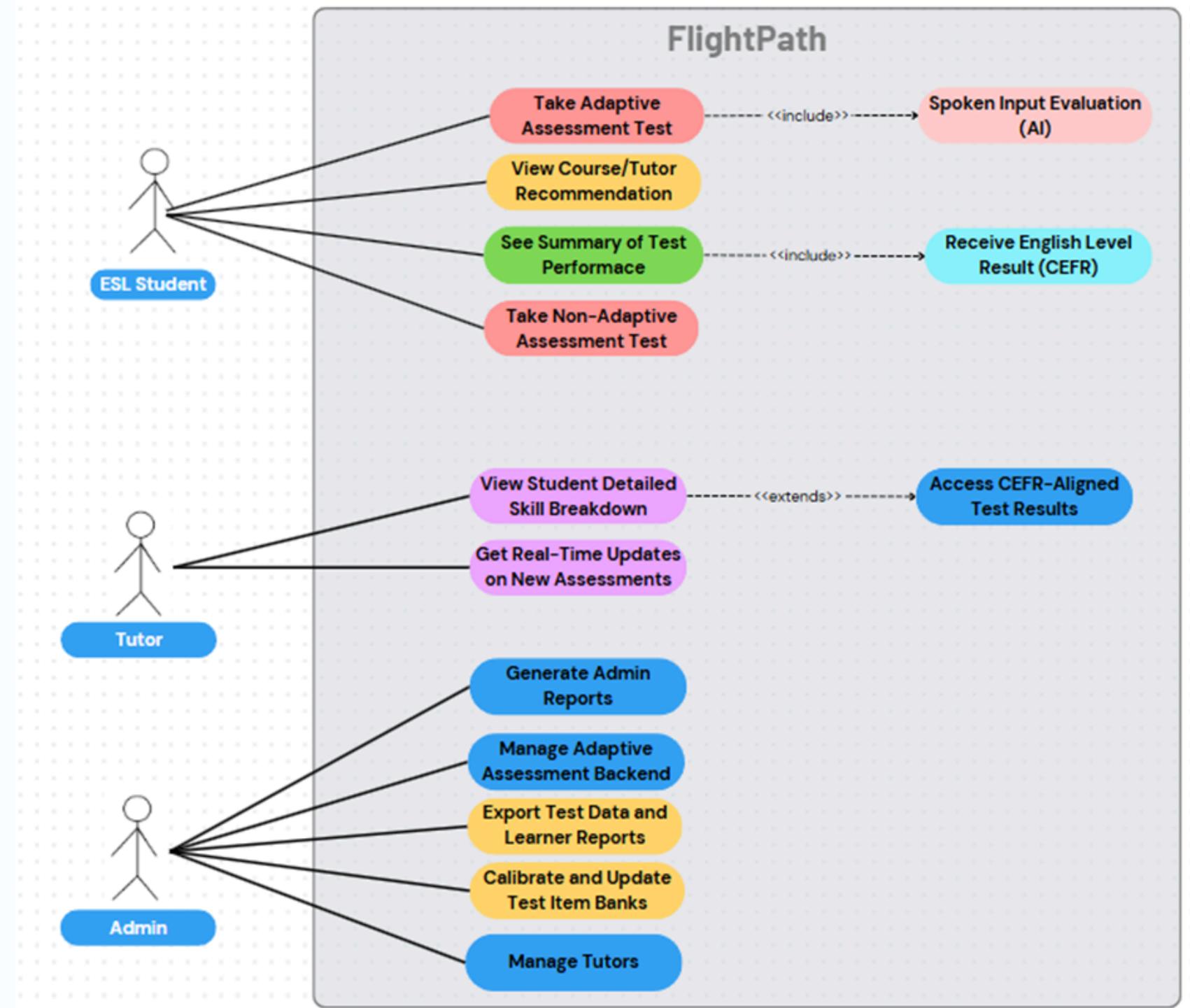


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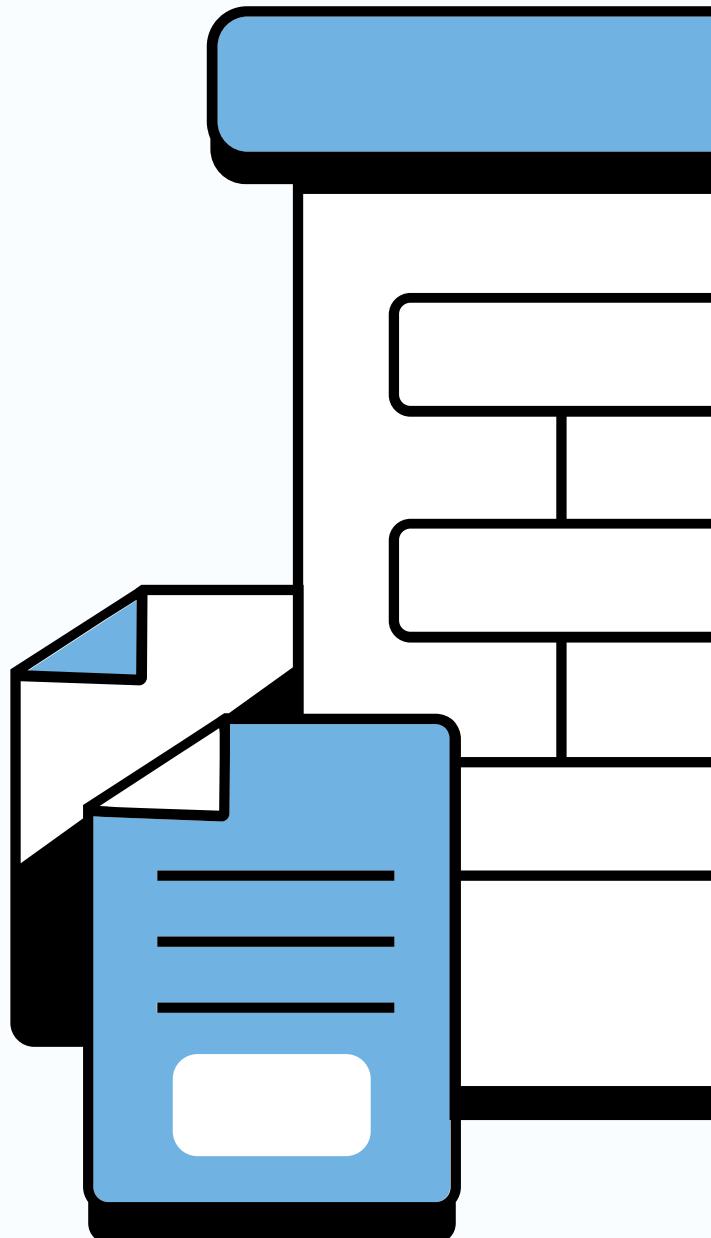


USECASE

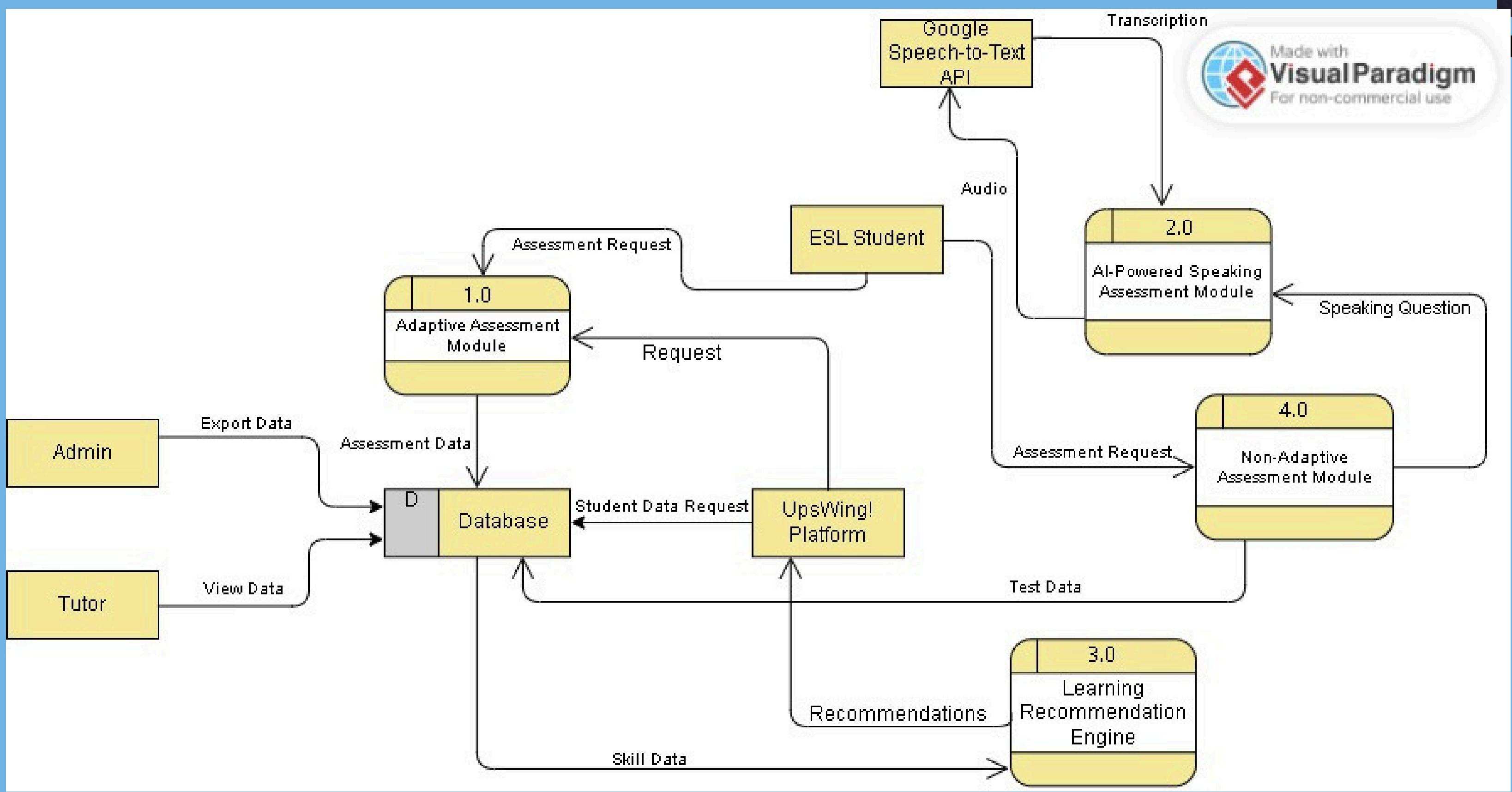
FlightPath



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LEVEL 1 DFD



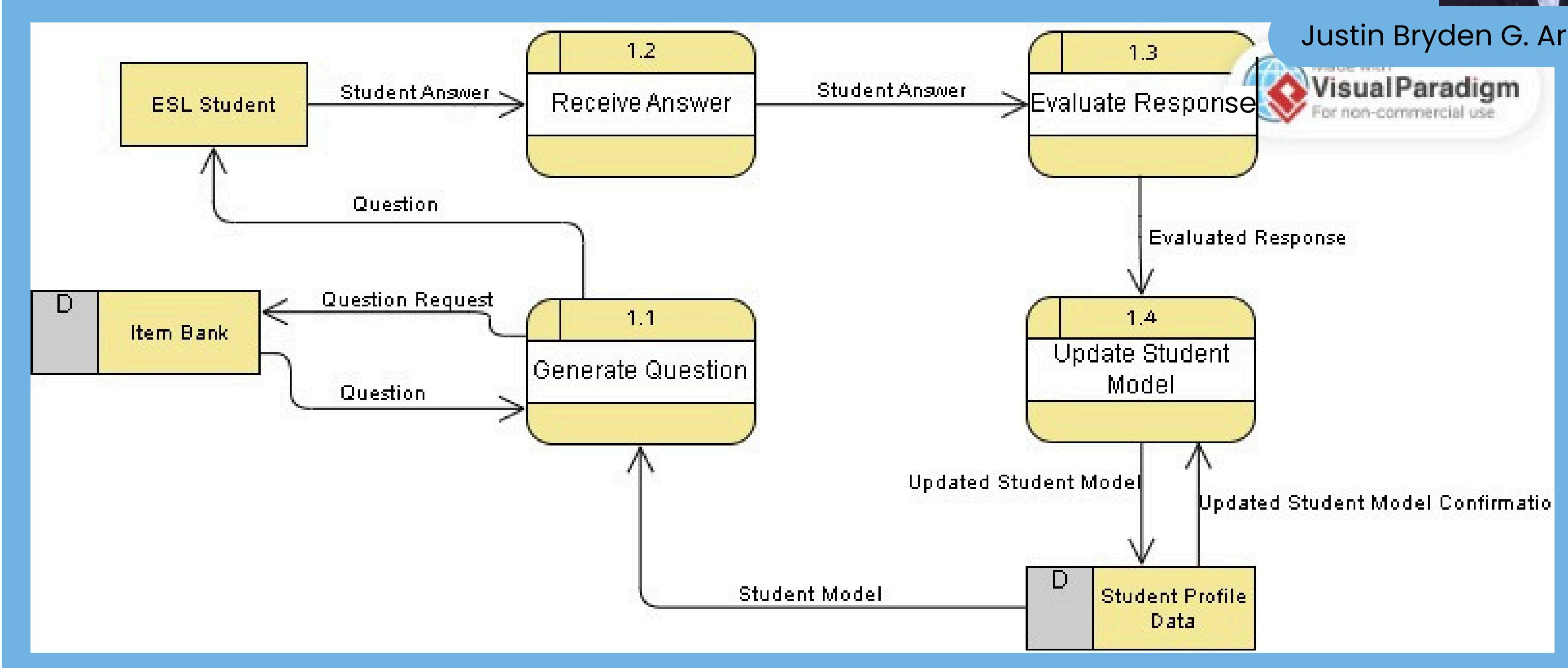
Jen G. Arroco

LEVEL 2 DFD - 1

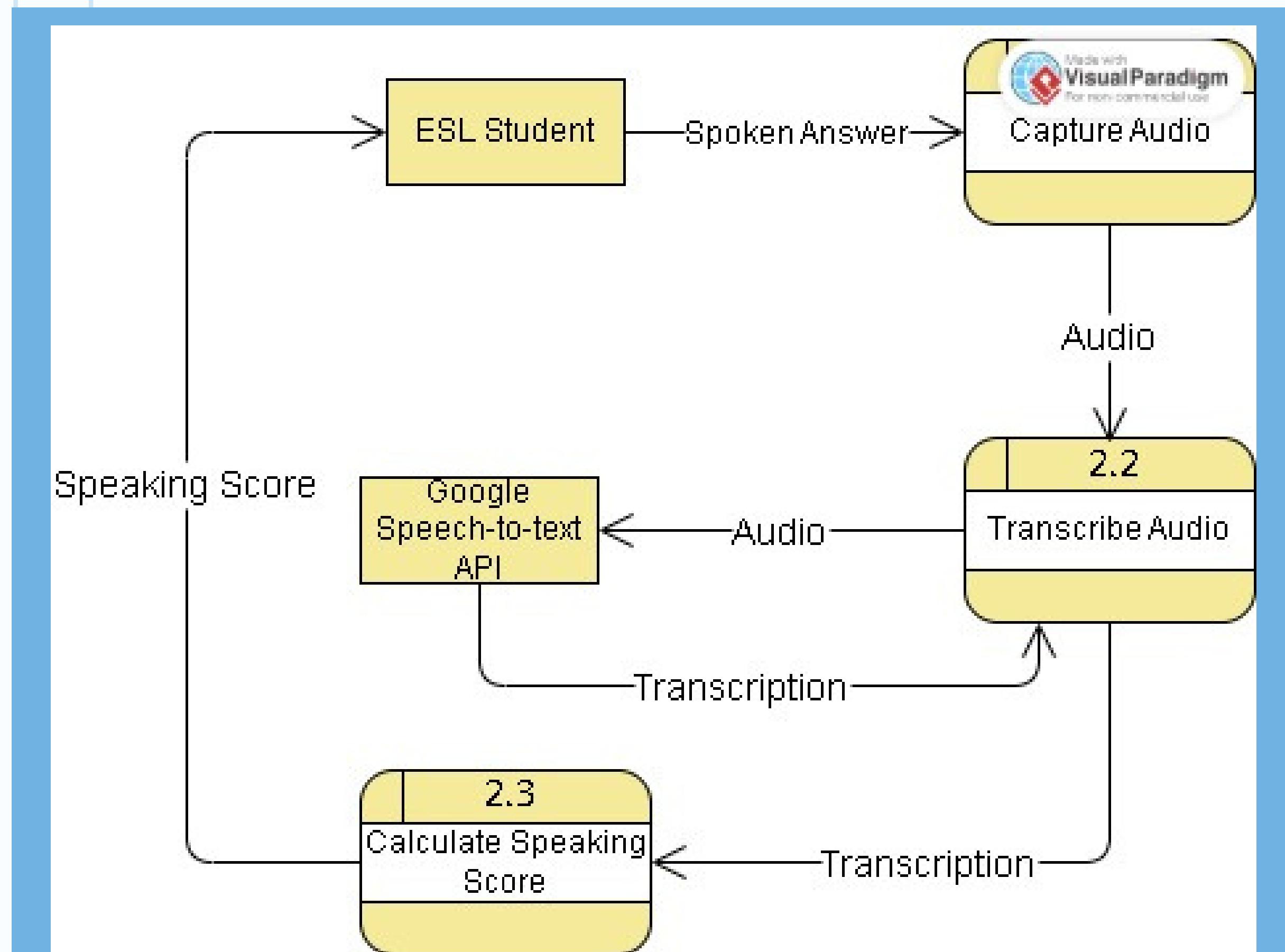


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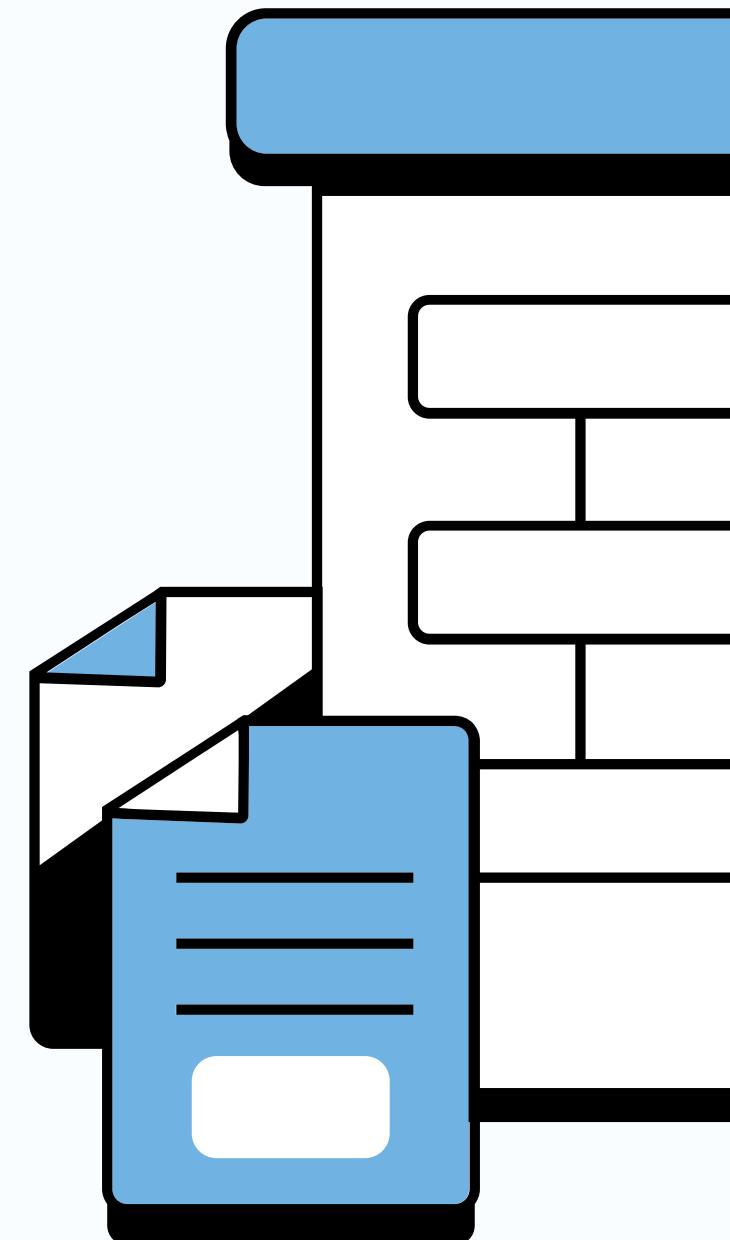
Visual Paradigm
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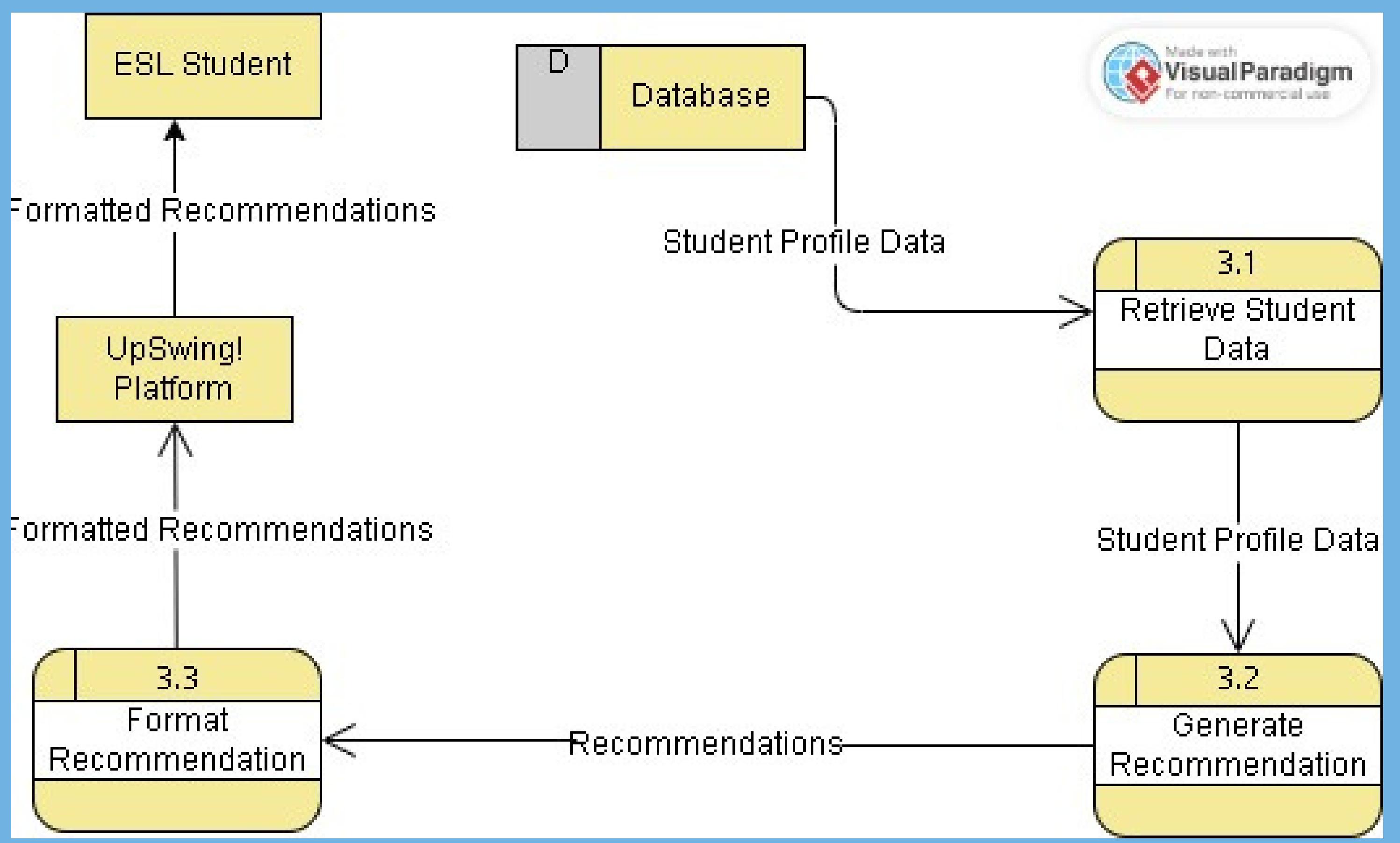
LEVEL 2 DFD - 2



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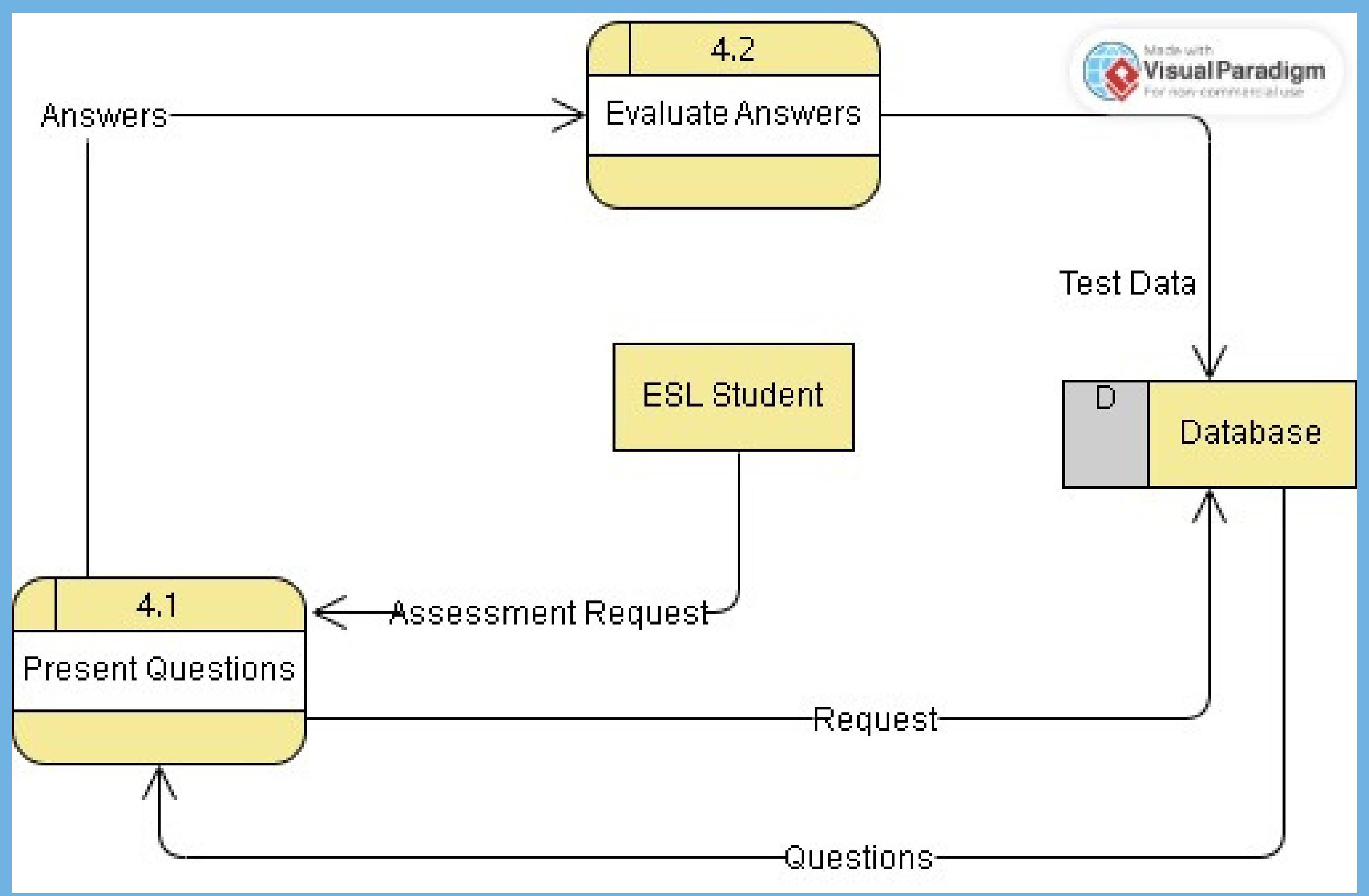


LEVEL 2 DFD - 3



Justin Bryden G. Arroco

LEVEL 2 DFD - 4



Justin Bryden G. Arroco

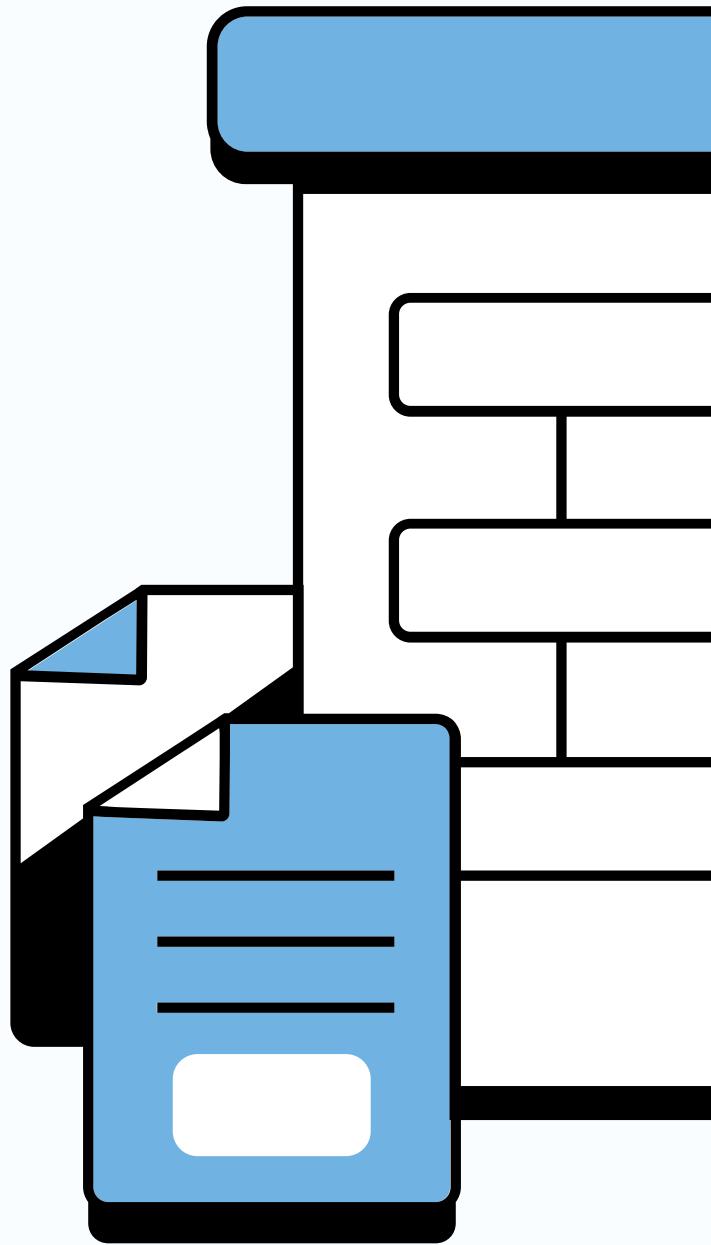
DFD COMMENTS



Dataflow Diagram

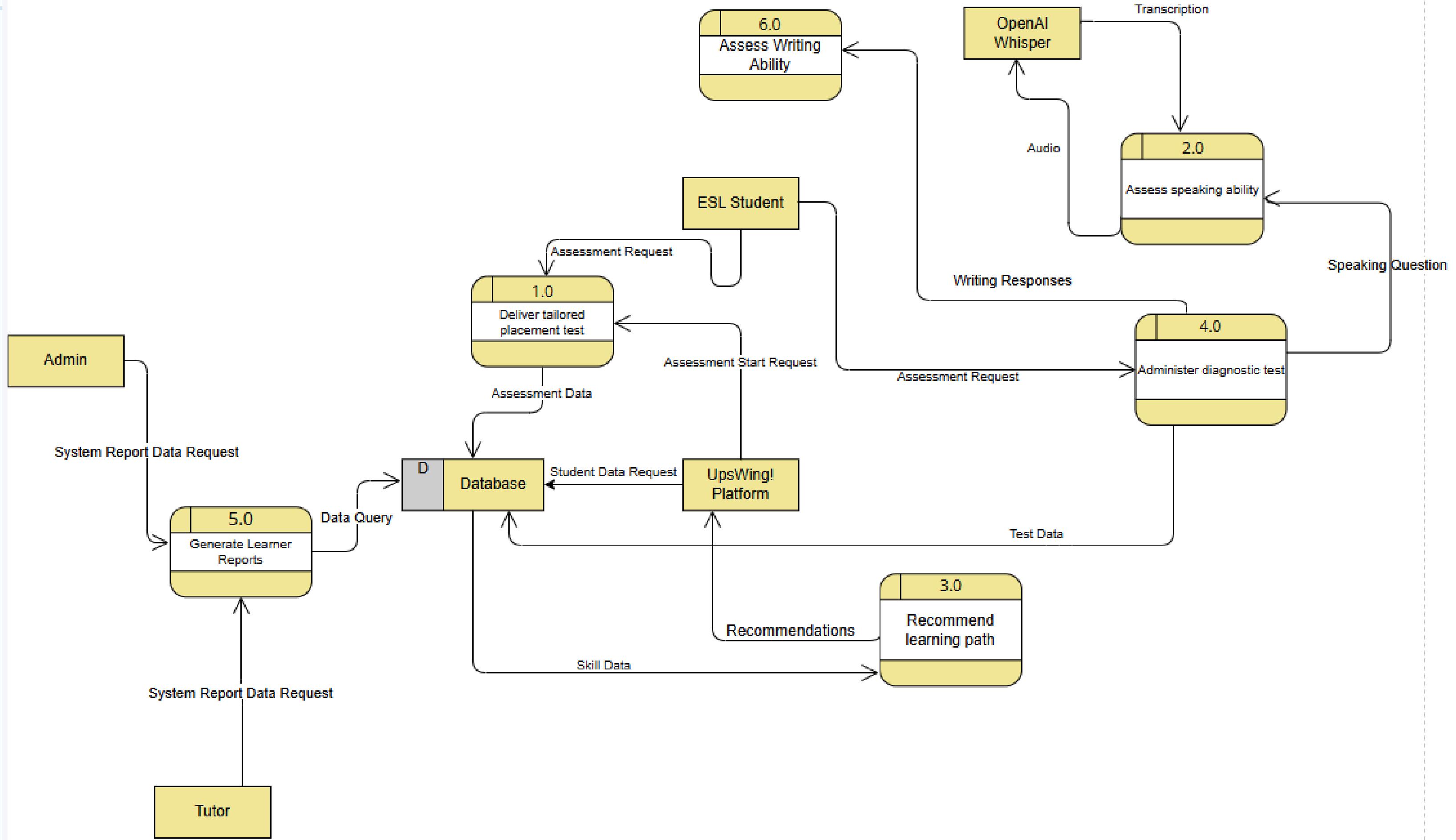
Justin Bryden G. Arroco

- Specify "Data Request" in Tutors vs Admins
- Clarify whether API is external or internal
- Specify the database
- Fix all connections, aka Admin, Tutor, Student to processes, not database
- Use Cases should be processes
- Modules are features, not processes
- Clarify the "onboarding" part of the system, possibly remove mention of it
- Client processes vs FlightPath processes, clarify
- "Monitoring engagement of student" is not part of the processes, either remove from problems or add a monitoring process
- Placement is not a part of the processes as well
- Need to include ALL processes essentially
- No reports, data, yadda yadda





G. Arroco



1.0 Initiation Phase

Added by Andrei Torres 17 days ago. Updated 14 days ago.

Cost type Budget

Fixed date 08/12/2025

Spent (ratio)  10% Total progress

Description Initiation Phase Budget

UNITS

Planned unit costs

UNITS	COST TYPE	COMMENT	BUDGET
35.00	Transportation expenses Php 100		PHP 3,500.00
35.00	Food Allowance		PHP 3,500.00
			PHP 7,000.00

Actual unit costs

WORK PACKAGE	UNITS	COST TYPE	COSTS
Task #1200: 1.0.1 Prospective Client Discovery	2.00	Transportation expenses Php 100	PHP 200.00
Task #1209: 1.0.2 Finalize choice of IIP/PBL Client	2.00	Transportation expenses Php 100	PHP 200.00
Task #1291: 1.2.1 Create Charter	1.00	Internet Monthly Subscription Php1K	PHP 1,000.00
			PHP 1,400.00

LABOR

Planned labor costs

HOURS	USER	COMMENT	BUDGET
40.00 hours	AT Andrei Torres		PHP 4,000.00
40.00 hours	DI Don Victor Idos		PHP 4,000.00
40.00 hours	JM John Michael Maala		PHP 4,000.00
40.00 hours	JA Justin Bryden Arroco		PHP 4,000.00
			PHP 16,000.00

Actual labor costs

WORK PACKAGE	HOURS	USER	COSTS
Summary Task #1200: 1.3 Define Budgets	4.00 hours	AT Andrei Torres	PHP 400.00
Task #1200: 1.0.1 Prospective Client Discovery	1.00 hours	AT Andrei Torres	PHP 100.00
Task #1209: 1.0.2 Finalize choice of IIP/PBL Client	10.00 hours	DI Don Victor Idos	PHP 0.00
Task #1916: 1.1.1 Conduct Client Interview	4.00 hours	JA Justin Bryden Arroco	PHP 0.00
Task #1916: 1.1.1 Conduct Client Interview	4.00 hours	JM John Michael Maala	PHP 0.00
Task #1916: 1.1.1 Conduct Client Interview	4.00 hours	DI Don Victor Idos	PHP 0.00
Task #1916: 1.1.1 Conduct Client Interview	4.00 hours	AT Andrei Torres	PHP 0.00
			PHP 1,000.00

**OPENPROJECT
BUDGETS**



John Michael Maala

Roadmap

0.0 Pre-alpha

Early development stage, primarily for internal use and prototyping.

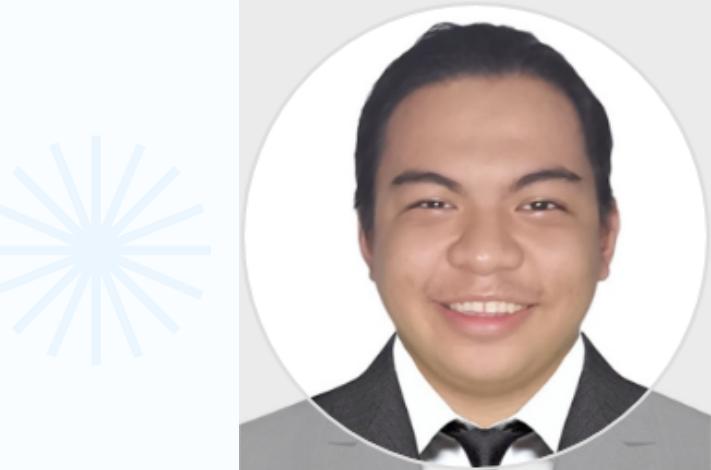


RELATED WORK PACKAGES

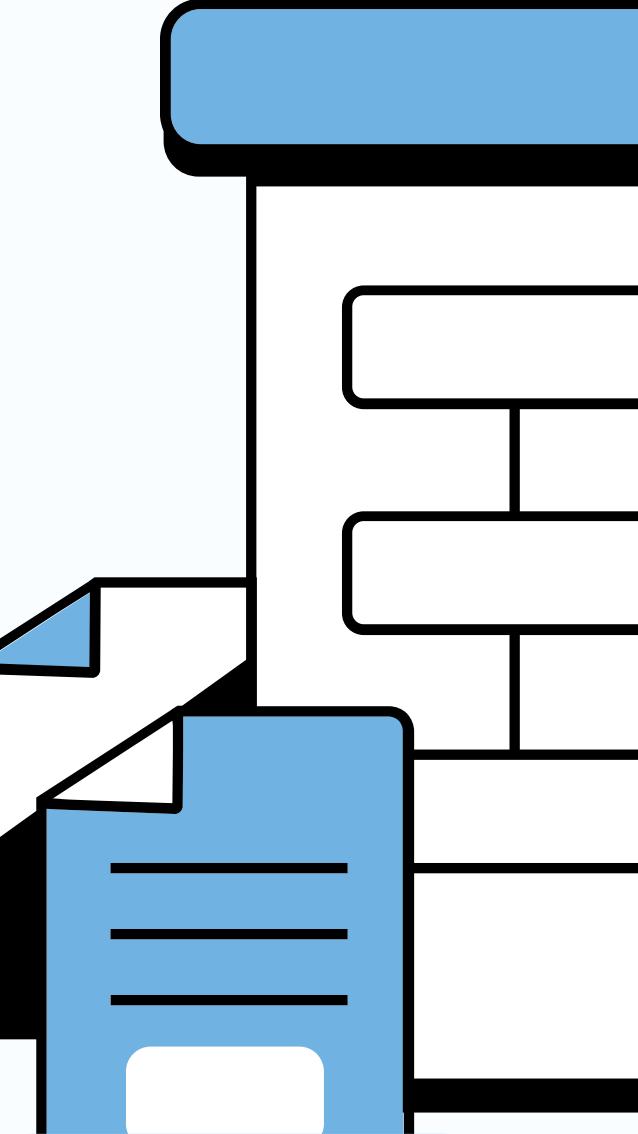
- [Phase #1261: 1.0 Initiation Phase](#)
- [Phase #1262: 2.0 Planning Phase](#)
- [Phase #1263: 3.0 Executing Phase](#)
- [Task #1266: 2.1 Design Thinking Stage 2: Define](#)
- [Task #1280: 1.3 Define Budgets](#)
- [Task #1281: 1.4 Define Timelines](#)
- [Task #1284: 2.2 Design Thinking Stage 3: Ideate](#)
- [Task #1285: 3.1 Design Thinking Stage 4: Prototype](#)
- [Task #1286: 3.2 Design Thinking Stage 5: Test](#)
- [Task #1288: 1.0.1 Prospective Client Discovery](#)
- [Task #1289: 1.0.2 Finalize choice of IIP/PBL Client](#)
- [Task #1291: 1.2.1 Create Charter](#)
- [Task #1292: 1.2.2 Create Objectives](#)
- [Task #1293: 1.2.3 Create Scope](#)
- [Task #1294: 1.2.4 Create Stakeholder Analysis](#)
- [Task #1301: 2.3.1.1 Context Diagram](#)
- [Task #1302: 2.3.1.2 Dataflow Diagram Level 1](#)
- [Task #1305: 2.3.1.2.1 Dataflow Diagram Level 2.1](#)
- [Task #1306: 2.3.1.2.2 Dataflow Diagram Level 2.2](#)
- [Task #1309: 2.3.2.1.1.1 Test Case for Use Case 2.3.2.1.1](#)
- [Task #1310: 2.3.2.1.1.2 Test Case for Use Case 2.3.2.1.1](#)

0.10 Alpha

Internal testing phase, focused on functionality and bug fixing.



John Michael Maala



**OPENPROJECT
ROADMAP**

OPENPROJECT WORK PACKAGES



Work packages

[+ Create](#)

Include projects 1

Baseline

Filter 0

ID	SUBJECT ↑	TYPE	STATUS	ASSIGNEE	PRIORITY	PROJECT PHASE
1261	▼ 1.0 Initiation Phase	PHASE	Closed	AT Andrei Torres	Normal	► Initiating
1288	1.0.1 Prospective Client Discovery	TASK	Closed	AT Andrei Torres	Normal	► Initiating
1289	1.0.2 Finalize choice of IIP/PBL Client	TASK	Closed	AT Andrei Torres	Normal	► Initiating
1283	▼ 1.1 Design Thinking Stage 1: Empathize	TASK	Closed	AT Andrei Torres	Normal	► Initiating
1916	1.1.1 Conduct Client Interview	TASK	Closed	DI Don Victor Idos	Normal	► Initiating
1282	▼ 1.2 PM Foundations Ch 2 Initiate a project	SUMMARY TASK	Closed	AT Andrei Torres	Normal	► Initiating
1291	1.2.1 Create Charter	TASK	Closed	JM John Michael Maala	Normal	► Initiating
1292	1.2.2 Create Objectives	TASK	Closed	JA Justin Bryden Arroco	Normal	► Initiating
1293	1.2.3 Create Scope	TASK	Closed	JA Justin Bryden Arroco	Normal	► Initiating
1294	1.2.4 Create Stakeholder Analysis	TASK	Closed	DI Don Victor Idos	Normal	► Initiating
1295	1.2.5 PM Foundations Ch 2 Initiate a project Completed	MILESTONE	Closed	AT Andrei Torres	Normal	► Initiating
1280	1.3 Define Budgets	SUMMARY TASK	Closed	AT Andrei Torres	Normal	► Initiating
1281	1.4 Define Timelines	SUMMARY TASK	Closed	AT Andrei Torres	Normal	► Initiating
1262	▼ 2.0 Planning Phase	PHASE	Closed	AT Andrei Torres	Normal	► Planning
1266	2.1 Design Thinking Stage 2: Define	SUMMARY TASK	Closed	AT Andrei Torres	Normal	► Planning
1284	2.2 Design Thinking Stage 3: Ideate	SUMMARY TASK	Closed	AT Andrei Torres	Normal	► Planning
1287	▼ 2.3 Requirements and Analysis Design Diagrams	SUMMARY TASK	Closed	AT Andrei Torres	Normal	► Planning

John Michael Maala

OPENPROJECT RACI MATRIX

Work packages

+ Create ▾

Include projects 1 ▾

Baseline ▾

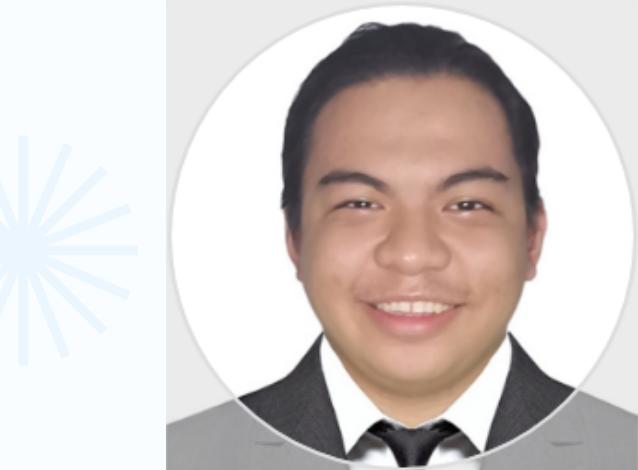
Filter 0 ▾



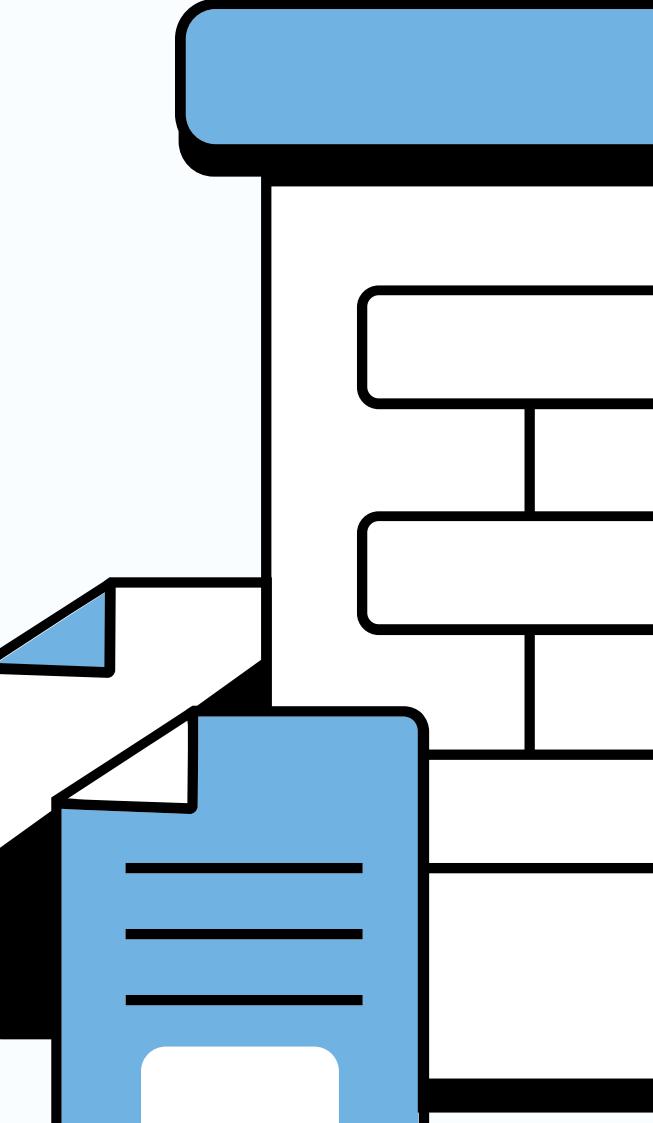
VERSION	ID	SUBJECT	RESPONSIBLE*	ACCOUNTABLE	CONSULTED	INFORMED
0.0 Pre-alpha	1261	1.0 Initiation Phase		-		
0.0 Pre-alpha	1288	1.0.1 Prospective Client Discovery	DI Don Victor Idos	AT Andrei Torres	M@ manuelc@apc.edu.ph F@ fecalderon2	
0.0 Pre-alpha	1289	1.0.2 Finalize choice of IIP/PBL Client	AT Andrei Torres	AT Andrei Torres	M@ manuelc@apc.edu.ph F@ fecalderon2	I@ iceneyspears@gmail.com
-	1283	1.1 Design Thinking Stage 1: Empathize	AT Andrei Torres	AT Andrei Torres	M@ manuelc@apc.edu.ph F@ fecalderon2	I@ iceneyspears@gmail.com
-	1916	1.1.1 Conduct Client Interview	DI Don Victor Idos	DI Don Victor Idos	M@ manuelc@apc.edu.ph F@ fecalderon2	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1282	1.2 PM Foundations Ch 2 Initiate a project	-	-		
0.0 Pre-alpha	1291	1.2.1 Create Charter	JM John Michael Maala DI Don Vict... 3	JM John Michael Maala	M@ manuelc@apc.edu.ph F@ fecalderon2	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1292	1.2.2 Create Objectives	JA Justin Bryden Arroco	JA Justin Bryden Arroco	M@ manuelc@apc.edu.ph F@ fecalderon2	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1293	1.2.3 Create Scope	JA Justin Bryden Arroco	JA Justin Bryden Arroco	M@ manuelc@apc.edu.ph F@ fecalderon2	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1294	1.2.4 Create Stakeholder Analysis	DI Don Victor Idos	DI Don Victor Idos	M@ manuelc@apc.edu.ph F@ fecalderon2	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1295	1.2.5 PM Foundations Ch 2 Initiate a projec...		-		
0.0 Pre-alpha	1280	1.3 Define Budgets	AT Andrei Torres	AT Andrei Torres	F@ fecalderon2@student.apc.edu.ph M@	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1281	1.4 Define Timelines	AT Andrei Torres	AT Andrei Torres	F@ fecalderon2@student.apc.edu.ph M@	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1262	2.0 Planning Phase		-		
0.0 Pre-alpha	1266	2.1 Design Thinking Stage 2: Define	AT Andrei Torres JM John Michael ... 4	AT Andrei Torres	F@ fecalderon2@student.apc.edu.ph M@	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1284	2.2 Design Thinking Stage 3: Ideate	AT Andrei Torres JM John Michael ... 4	AT Andrei Torres	F@ fecalderon2@student.apc.edu.ph M@	I@ iceneyspears@gmail.com
0.0 Pre-alpha	1287	2.3 Requirements and Analysis Design Diagram...	-	-		

01 Initiation Phase

To Do	Doing	For Review	Done	...
+	+	+		
			Closed ▾ #1916 - APC_2025_2026_T1... 1.1.1 Conduct Client Interview  Apr 25, 2025	
			Closed ▾ #1280 - APC_2025_2026_T1... 1.3 Define Budgets  Aug 14, 2025	
			Closed ▾ #1281 - APC_2025_2026_T1... 1.4 Define Timelines  Aug 14, 2025	
			Closed ▾ #1289 - APC_2025_2026_T1... 1.0.2 Finalize choice of IIP/PBL Client  Apr 04, 2025 - Apr 09, 2025	
			Closed ▾ #1288 - APC_2025_2026_T1... 1.0.1 Prospective Client Discovery  Mar 27, 2025 - Apr 04, 2025	
			Closed ▾ #1283 - APC_2025_2026_T1... 1.1 Design Thinking Stage 1: Empathize  Apr 10, 2025 - May 02, 2025	
			Closed ▾ #1294 - APC_2025_2026_T1... 1.2.4 Create Stakeholder Analysis  Aug 12, 2025 - Aug 14, 2025	



John Michael Maala



**OPENPROJECT
KANBAN BOARD**

OPENPROJECT BACKLOGS

Backlogs



John Michael Maala

0.0 Pre-alpha		0

0.10 Alpha		0
1268	Epic: 3.3 Student Assessment & Personalization	New
1290	User story: 3.3.1 Adaptive Assessment	New
1300	Feature: 3.3.1.1 Deliver Adaptive Test Backend & Item Flow	New
1922	Feature: 3.3.1.2 AI-Powered Speaking Assessment Service	New
1929	User story: 3.3.2 Results & Summaries	New
1930	Feature: 3.3.2.1 CEFR Mapping & Result Generation	New
1936	Feature: 3.3.2.2 Student Result Summary & Visualization Payload	New
1947	Epic: 3.4 Tutor	New
1971	Epic: 3.5 Admins	New
1940	User story: 3.3.3 Personalized Learning Path	New
1941	Feature: 3.3.3.1 Recommendation Engine for Learning Paths	New
1948	User story: 3.4.1 Tutor Assessment View	New
1955	Feature: 3.4.1.2 CEFR Result Access & Topic Readiness Signals for Tutors	New
1949	Feature: 3.4.1.1 Tutor Dashboard: Student Skill Reports	New
1960	User story: 3.4.2 Tutor Notifications	New
1962	Feature: 3.4.2.1 Assessment Notification & Webhook System	New
1972	User story: 3.5.1 System Operations	New
1973	Feature: 3.5.1.1 Admin Portal — Assessment System Health & Control	New

INDIVIDUAL CONTRIBUTION

INDIVIDUAL CONTRIBUTION



Andrei Luis M. Torres
Team Leader

Pm Docs Chapter 2:

- Charter
- Objectives
- Scope

Design Thinking Stages 1-5

- Stage 1
- Stage 2
- Stage 3
- Stage 4 (Reviewed)
- Stage 5 (Reviewed)

Assisted with Open Project Activities

Presentation:

- Drafted outline
- Assisted in contents

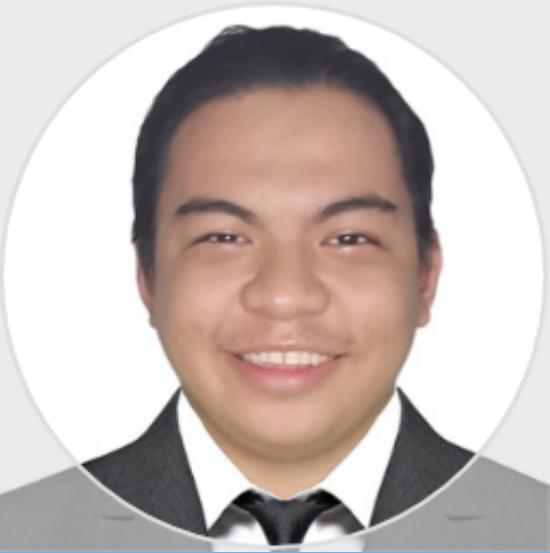
SNTSDEV Outputs

- Proof read the finals output
- Main structure of the finals paper
- Contributed to Intro, SOP, Objectives, Significance of the Project, Scope, Limitations, List of processes, SWOT, Product backlog, Use Case Diagram, and Conclusion.

Project Management

- Lead meetings with the group
- Communications to project consultant and project adviser on behalf of the group.
- Assign task to groupmates and make sure deadlines are met.

INDIVIDUAL CONTRIBUTION



John Michael Maala
Secretary

PM Docs Chapter 2:

- Charter

Minutes of the Meeting

OpenProject

- Work Packages
- Budgets
- Kanban Board
- Backlogs
- RACI Assignment

Design Thinking

- Stage 1
- Stage 2
- Stage 3

SNTSDEV Output

- Technical Background and Feasibilities
- Use Case Diagram
- Fully Dressed Use Cases
- Release Plan
- Requirements Traceability Matrix

INDIVIDUAL CONTRIBUTION



Justin Bryden G. Arroco
Assistant

Contribution

PM Docs Chapter 2

- Objectives
- Scope

Stage 1-5

- Stage 1
- Stage 2
- Stage 3
- Stage 4

Data Flow Diagram

Openproject Budgets

SNTSDEV Contributions:

- Use Case Diagrams
- Fully Dressed Use Cases
- RACI Matrix
- Proof Reading of Final Paper
- Review of Related Studies
- Prototyping via Figma

INDIVIDUAL CONTRIBUTION



Don Victor L. Idos
Product Owner and lead
programmer

Pm Docs Chapter 2:

- Charter
- Objectives
- Scope
- Stakeholder Analysis

Design Thinking Stages 1-5

- Stage 1
- Stage 2
- Stage 3
- Stage 4
- Stage 5

Presentation:

- Drafted outline
- Assisted in contents

SNTSDEV Outputs

- Proof read the finals output
- Contributed to Intro, SOP, Objectives, Significance of the Project, Scope, Limitations, SWOT, Product backlog, Use Case Diagram, and Conclusion.

Main communicator to our client

THANK YOU

For Your Attention

