SYSTEM OVERVIEW REPORT

LANGUAGE TUB

112 SQUAD

VERSION 2.0

PINZHUO ZHAO
SAI ZHANG
ERLANGGA PRIYAJI
ALWANI AMAN

Table of Contents

Introduction

The main objective of this report is to provide both Alexander Leahy and IE Mentors a clearer understanding of the way in which the project will be conducted, and the functionality expected to be delivered in each Delivery Cycle (Iteration). This report aims to deliver the system vision, system requirements with the iteration plan and the project organization.

System Vision

Project Description

Project Background

Current website Ecoutez Bien is a website that dedicated to students who wish to improve their French language, particularly in listening skills. Alexander Leahy and Emilie Leahy are the founder of Ecoutez Bien. Ecoutez Bien was developed in 2007 and used for Victorian Certificate of Education (VCE) program.

Circumstances Leading Up to Our project

Essentially, Alex wants to have two branches; Ecoutez Bien and Language Tub. So, our team is going to develop a new Language Tub website (enrolment system) for him. They plan to make Language Tub as an official branch of their website and use it for International Baccalaureate (IB) program.

The Language Tub website basically can be used both by the students to learn French Language and the teachers who want to help their students to learn French Language because the website provides many exercises with complete answers, script and suggested technique that very useful to improve students' skills.

They want to restructure the website in term of framework and database so that those two websites (Ecoutez Bien and Language Tub) can have two different databases and systems with minor modification. Language Tub requires improvement in usability and performance in order for the users to have a better

experience while using the website. The contents and features of the website will be restructured based for IB program.

They want the teacher to have a direct enrolment procedure so that they are able to register and add their students into the classes without dealing with the admin. By having a direct procedure in student enrolment to the system, they also can avoid a data entry issue by the private tutors. They also want the teachers have a control in managing their class within themselves. Most importantly, the founder really hope that the teachers and students trust their website to the point that the teachers able to conduct the test by using Language Tub.

System Capabilities

PACT analysis is used to produce system capabilities:

People Analysis

Stakeholders of Language Tub enrolment system are as following:

- Owner/Administrator – the owners is the stakeholder as they are going to handle and supervise the website
    - Alex Leahy
    - Emilie Leahy
- Customers – the customers are the stakeholder and considered as the users as they are going to use the system for their teaching and learning purpose. Customers are divided into two categories:
    - Students
        - Individual students
        - School students
    - Teachers
        - Private tutors
        - School teachers
- 112 Squad – our team members are also the stakeholders as we are responsible to:
    - Design the user interface of the enrolment system
    - Develop the system based on the design plan
    - Execute functional and non-functional test on the system after the development process

Users characteristics

- Computer literacy
  - The target users might have a better computer literacy as in this period most of the activities involve with computer-based program and most of the students and teachers nowadays have been exposed towards technology device such as computer, laptop and smartphone.
  - The designer will design the user interface based on users' computer knowledge hence the users will be able to understand the interface and functionalities of website during accessing the exercises
- Physical abilities
  - Stakeholder are physically well especially hearing ability because the website is created to work on students' listening comprehension
- Cognitive abilities
  - The users will able to interact with website easily as the user do not require to memorize the enrolment steps. The process of enrolment only requires data entry and context understanding
- Language
  - English would be the common communication language among all the stakeholders

Activities Analysis

The purpose of enrolment system is to help the school teachers or private tutors to arrange and create the classes and accounts for their students while for individual student who is not enrolling as part of a school, they will able to enrol by themselves and access the unit.

Administrator

- Monitor and view teachers and students logging count and usage time
- Monitor overall of enrolment system
- Monitor and handle the database that contain data about the users

Teachers

- Register for a free trial to get access to a unit
- Log in as a teacher
- Create the accounts for the students
- Create the classes
- Add the students into their particular classes
- Monitor and control the classes
- Option – Purchase a subscription

Students

- Individual students
    - Register for a free trial to get access to a unit
    - Receive the confirmation email as part of registration process
    - Confirm their email address
    - Log in as an individual student
    - Access the learning system
    - Option – Purchase a subscription
- School students
    - Received the password
    - Log in as a student without verification
    - Access the learning system

Context Analysis

Activities constantly occur in a context; this section looks at how to examine the two collectively.

- Physical environment
  - This activity takes place at any time of the day in an indoor environment such as computer lab, workplace, home and internet café where the presence of at least one computer or laptop and stable Internet connection are necessary

- Social environment
  - For enrolment process, the teachers and students do not need privacy and it may happen in a group of teachers and students that have to use the system in the same time
  - For password distribution, the users should not expose their password to other people

- Organizational environment
  - This activity is primarily about student's registration in the Language Tub enrolment system by their school teachers or by themselves if the student is an individual student.
  - Both users, teachers and students are directly communicating with the administration concerning enrolment process

Technology Analysis

- Input – to extract the information from the users
  - Keyboard or virtual keyboard
    - There is a certain amount of information that needs to be inserted by the user which indicates the fact that a keyboard is a necessary tool
  - Mouse
    - To allow user to navigate through the website and click to select or proceed to the next step
  - Monitor
    - To have an access of visual content on the enrolment system such as registration form, student account and subscription form

- Output – to present the processed information to the users
  - Monitor
    - To display the website content and enrolment update
    - To obtain the information presented by the website
  - Mouse
    - To allow user to navigate through the website and click to proceed to the next step
  - Speaker
    - The user will use the speaker during the exercises in the learning system

- Communication
  - The communication between the website's database and the user's computer is established via an Internet connection.
  - The devices used should come with Wi-Fi support which helps the devices to connect to the Internet as the users need Internet connection to browse Language Tub website and use the enrolment system

- Users can access to the website by using any operating system such as Windows and Mac OS X. For browser, the user can use Internet Explorer, Mozilla, Safari and Google Chrome.

Functional Requirements

- Create account for the users
- Create classes
- Add students into the class
- Verify the individual students

Non-functional Requirements

- Handle current and future loads
- Optimum use of resources
- Response time
- Events tracking
- Usage monitoring

Business Benefits of Our Project

From the Perspective of the Whole Website

There are many potential business benefits in this project, the primary one is that Alex is able to expand the market by attracting the International Baccalaureate students all over the world, this could help those IB students to use Language Tub as their learning assistant to improve their French Language in listening skills, and this website could generate more profits for our client

From the Perspective of the Enrolment System

A user-friendly enrolment procedure for both the teachers and administrators would significantly improve the usability of the website. The enrolment procedure will be based on the most logical flow that allows the user to insert their data into the system without feeling disoriented. Simple and secure password requirement by stating the password requirement of the website so that the user be prepared with some variation of password and indication of the progress with a “password strength” visual. In addition, the users are also able to change and reset their passwords periodically to avoid their account from being compromised, and password recovery procedure will be easy in order to prevent the user from abandoning the website.

Incidental Benefits

Also, the online method of learning is best suited for everyone. This digital revolution has led to remarkable changes in how the content is accessed, consumed, discussed, and shared. There are many potential business benefits can be obtained and delivered by this project.

Lastly, the incidental benefit from this project is reduction of the carbon footprint. The learning system will reduce the need for printing out paper-based assessments as the contents will be accessed and answered online.

System Requirements

Major subsystems

1) Registration system:

The registration system is where user register themselves into the system. The teachers can provide a detail into the system if they are a teacher of a school and register as a teacher with more capabilities than a regular student account.

User Stories

- As a student, I want to be able to register as a free trial account of the learning program, so that I can try before committing to pay for the subscription.
- As a teacher, I want to be able to create accounts for my students, so that when the students started studying for the course they already have an account created.
- As a teacher, I want to be able to know if my students already has an account on the system has using their email, so that I do not need to register them again.
- As an admin, I want the teacher to register their students to the system by themselves, so that they do not need to wait for me to register their students.

2) Subscription system

It is assumed that user have to subscribe to get access to the units, it also includes the free trial student account. This subscription system is needed to prevent full own of units by a user. User will only be able to access the units if their subscription to the units have not expired.

User Stories

- As a student, I want to be able to subscribe to units, so that I can learn what unit is needed for my specific year level in a bundle.
- As a student, I want to be able to buy more units outside of my subscription, so that I could practice more without the help of a teacher.
- As a Teacher, I want to be able to pay the subscription of my students, so that the payment from the students can come from their school fees.

3) Class Management system

Class management system is one of the main parts of the enrolment system. This system will try to manage if a school or teacher tries to enrol their class full of students account to the Language Tub virtual class. The virtual class does not have a subscription to units, only the students, but teachers can manage their student units if they are enrolled to the teachers' class

User Stories

- As a teacher, I want to be able to assign students to a teacher, so that me and the other teachers can coordinate with ourselves to move a student.
- As a Teacher, I want to be able to enrol a class of students, so that I do not need to enrol students one by one.
- As a teacher, I want to be able to create classes for the school, so that I can be the admin and be the representation for my school for creating classes.
- As an admin, I want to be able to add or delete students from a class, so that I have that ability if the teachers or schools cannot do it themselves.
- As an admin, I want to be able to create a class for teachers, so that I have the ability if the teachers cannot create a class.

4) Account Management System

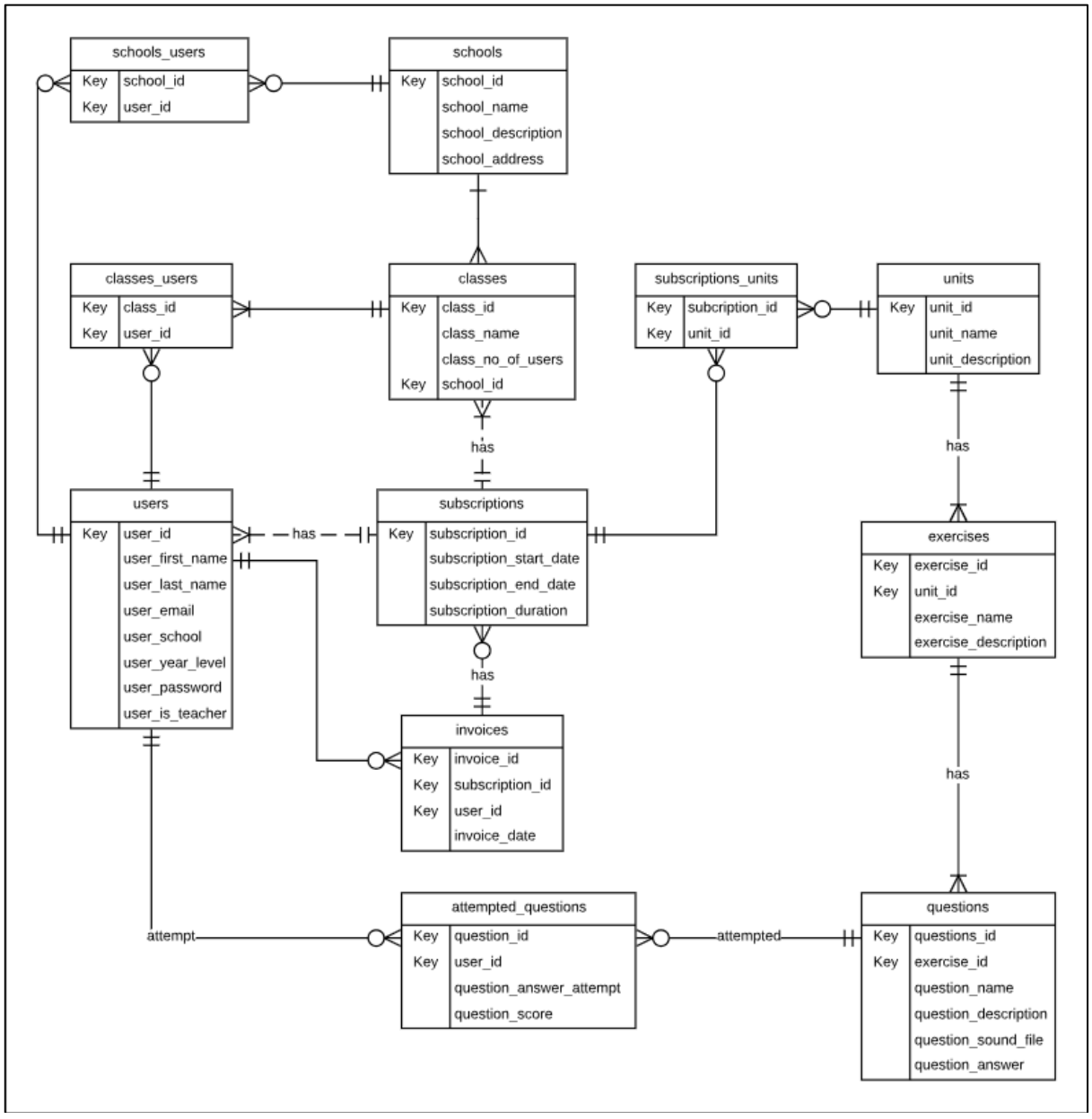
Account management system is the system for managing the accounts of users. For example, the passwords management, add or delete a user from the system or edit a user detail

User Stories

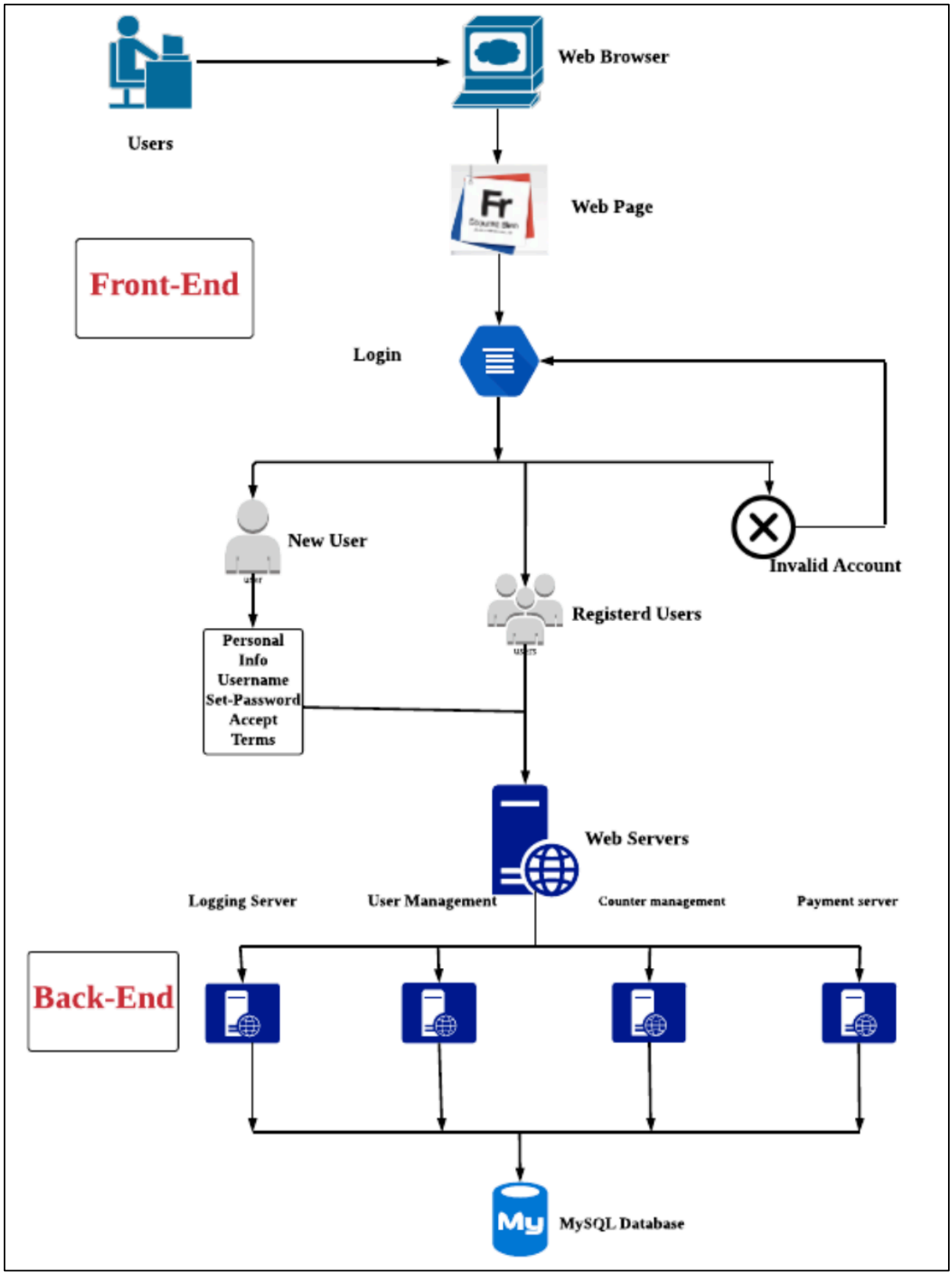
- As a teacher, I want to be able to change my student's password, so that if the students forgot their password I can change it for them.
- As an admin, I want to be able to login as specific users, so that I know how other users interact with the website.
- As an administrator, I want to be able to manage accounts of the users (add new user, delete user, modify user detail), so that I could better manage the website

Conceptual Data Model

There are some assumptions when creating the conceptual data model for Language Tub. One of the assumptions is that unit is connected to subscription entity, for people to be able to access units they need to subscribe for the units. Certain year level students can have a bundle of units that they need for their year level. The other assumption would be that students and teachers are one entity named User, but teacher have a is_*teacher Boolean* attribute for them to manage class of students or the ability to register their students.



Proposed System Architecture Overview



System Architecture Description

Current Status

The website ***www.ecoutezbien.com*** is the running current version of the project. VCE students are main object oriented in current website. It has 3 types of user: there are administrator, student and teacher. Students and teachers should register a user account firstly on the website.

- Student user can select a unit on the home page and download related vocabulary from the website and do some exercise. The exercise page has two mode, there are question mode and review mode. The types of questions mode are variable. That can help student to cement what they learned.
- For teacher user, teacher can enrol a class of student into the application, or even create classes for their school. Teacher also can assign the assessment to their students and block or choose exercises for students. Of course, teacher can view every student's progress.
- As for administrators, they can manage every account, such as add new users, modify user details and so on. Duty of administrators are creating classes for teachers, creating new units, questions and recording scripts. They also should observe usage data of units and average difficulty level of questions.

Our Proposed System architecture

The picture shows that the proposed system architecture our team designed for IE project. We divided the whole system into two parts, there are front end part and back end part.

The front-end in system architecture describes that users' interface of operation on the web page. Firstly, the user opens a web browser for viewing *www.ecoutezbien.com* website by using their own laptop/PC. Secondly, User tries to log into their account. If the user has been registered in this website, the logging request would be sent to back-end to process. If the user is a new user, she/he has to input personal information, username, password and accept terms and the privacy

agreement for registering a new account. The data included user's information also would be sent to back-end to be stored in the database. In another case, if the user typed in the wrong password or username, the logging page would jump an error message and return to logging page again. If the username and password both are correct, the logging requests of the new user and registered user both are able to send to web servers of back-end.

As for the back-end part in the system architecture, every request from the front-end is transferred to every related server. For example, logging request is sent to logging server for processing the request from the user and passing the authentication by comparing username and password submitted in MySQL database. Administrators could manage all users by interacting with user management server, such as add users, delete users, modify user information and so on. Due to this website has three types of users, that includes individual student, teachers and administrator, different user would face to different interface on a web page. That procedure could be processed by the counter server and interact with the database. On more essential point is this website is also related to purchase units, as usual, payment always belongs to a third party to run.

Iteration Plan

Iteration Plan	Start Time	End Time	No.Days
1. Iteration 0：Foundation setup	25/07/2018	21/08/2018	27
1.1 Foundation adsystem build	25/07/2018	01/08/2018	7
1.2 System Overview	01/08/2018	21/08/2018	20
2. Iteration 1: Registration and Login System	22/08/2018	11/09/2018	20
2.1: Rebuild database	22/08/2018	24/08/2018	2
2.2: Create table	24/08/2018	26/08/2018	2
2.3: UI design of login page	26/08/2018	28/08/2018	2
2.4: Achieve register functions for new users	28/08/2018	07/09/2018	10
2.4.1: Front end designing	28/08/2018	02/09/2018	5
2.4.2: Back end programming	02/09/2018	07/09/2018	5
2.5: Process the password file	07/09/2018	09/09/2018	2
2.6: Make the site is able to handle a population of 10,000 users	09/09/2018	11/09/2018	2
3. Iteration 2: Class Management System	12/09/2018	16/10/2018	34
3.1: Change passwords of students in their school or class	12/09/2018	19/09/2018	7
3.2: Enrol a class of students into the application (creating accounts)	19/09/2018	26/09/2018	7
3.3: Assign units to students	26/09/2018	03/10/2018	7
3.4: Assign students to a teacher (move from one class to another)	03/10/2018	08/10/2018	5
3.5: Purchase function	08/10/2018	16/10/2018	8
4. Iteration 3: Subscription System	22/10/2018	26/11/2018	35
4.1: Register for a free account after entering personal details and accepting Terms and Conditions	22/10/2018	27/10/2018	5

4.2: After registering for free account, option to purchase subscription: currently PayPal but could be through a shopping cart	27/10/2018	04/11/2018	8
4.3: Log in with an email address and private password	04/11/2018	11/11/2018	7
4.4：Land on Home page: Units enrolled in, Techniques to assist aural activities, Personal Details	11/11/2018	21/11/2018	10
4.5: Purchasing function	21/11/2018	26/11/2018	5
5. Iteration 4: admin functions	26/11/2018	23/01/2019	58
5.1: Manage accounts	26/11/2018	06/12/2018	10
5.1.1 Add new users	26/11/2018	28/11/2018	2
5.1.2 Delete users	28/11/2018	30/11/2018	2
5.1.3 Modify user details	30/11/2018	02/12/2018	2
5.1.4 Set user roles	02/12/2018	04/12/2018	2
5.1.5 Reset user passwords	04/12/2018	06/12/2018	2
5.2: Log in as specific users	06/12/2018	15/12/2018	9
Christmas Break	15/12/2018	10/01/2019	26
5.3 Current terms and conditions/privacy is dependent on server/data located in Australia. This will need to change if expanding	10/01/2019	23/01/2019	13
6. Iteration 5, additional function, or check if anything else doesn't achieve and combine the system with the other group	23/01/2019	06/02/2019	14
6.1: To achieve Multiple users may not be allowed to use the same login simultaneously	23/01/2019	06/02/2019	14
7. Iteration 6: final test	07/02/2019	14/02/2019	7

Language Tub Project Iteration plan explanation

Our group is planning to break the whole project into 7 iterations (included iteration 0). There are: iteration 0 setup development enrolment, included foundation and system build and system overview;

Iteration 0 must set up the foundation environment. It includes two ways to achieve, there are foundation and system build and system overview;

Iteration 1

Epic: Creating the Registration and Login System

User Stories

- As a student, I want to be able to register as a free trial account of the learning program, so that I can try before committing to pay for the subscription.
- As a teacher, I want to be able to create accounts for my students, so that when the students started studying for the course they already have an account created.
- As a teacher, I want to be able to know if my students already has an account on the system using their email, so that I do not need to register them again.
- As an admin, I want the teacher to register their students to the system by themselves, so that they do not need to wait for me to register their students.

Iteration 1 is going to develop the logging system; it has 6 subtasks need to complete. Firstly, we should rebuild a new database by using MySQL and PHP language. Secondly, we should create the table for username and password. The third task is to design the user interface of the logging system. Fourthly, it has to program the front-end and back-end for achieving register functions of new users. Next step is processing the password file that submitted user's username and password. The last task is to achieve the website is able to handle a population of 10,000 users.

Iteration 2

Epic: Creating the Class Management System

User Stories

- As a teacher, I want to be able to assign students to a teacher, so that me and the other teachers can coordinate with ourselves to move a student.
- As a Teacher, I want to be able to enrol a class of students, so that I do not need to enrol students one by one.
- As a teacher, I want to be able to create classes for the school, so that I can be the admin and be the representation for my school for creating classes.
- As an admin, I want to be able to add or delete students from a class, so that I have that ability if the teachers or schools cannot do it themselves.
- As an admin, I want to be able to create a class for teachers, so that I have the ability if the teachers cannot create a class.

Iteration 2 is going to develop the class management system. This system has 5 tasks divided the whole function. One function is able to change passwords of students in their school or class. The second function can make teacher enrol a class of students into the application included creating accounts for students); After enrolling students, teacher also can assign units to their students, even assign students to another teacher or more from one class to another class; One more function related to teacher account is to purchase learning units, which should achieve payment function in this task.

Iteration 3

Epic: Creating a Subscription System

User Stories

- As a student, I want to be able to subscribe to units, so that I can learn what unit is needed for my specific year level in a bundle.
- As a student, I want to be able to buy more units outside of my subscription, so that I could practice more without the help of a teacher.
- As a Teacher, I want to be able to pay the subscription of my students, so that the payment from the students can come from their school fees.

Iteration 3 would complete the subscription system. This system is focused on individual student user. It totally has 4 functions should be achieved. If a new individual student does not have an account, she/he should register for a free account after entering personal details and accept terms and conditions. After submitting user information for a free account, the new user has options to purchase a subscription: a currently PayPal but could be through a shopping cart. A user can log in with an email address and private password after completing registration. The main web page for the user should show units enrolled in the tool, techniques to assist aural activities tool, and personal details on the screen.

Iteration 4

Epic: Creating a Management System for admin

User Stories

- As an administrator, I want to be able to login as specific users, so that I know how other users interact with the website
- As an administrator, I want to be able to manage accounts of the users (add new user, delete user, modify user detail), so that I could better manage the website

Iteration 4 should finish administration system; For administrators, these functions must be completed, there are manage accounts, such as add new users, delete

users, modify user details, set user roles and reset user passwords; log in as specific users. The administrator also has the responsibility to change the current terms and conditions/privacy when these expanding, due to terms and conditions is dependent on server/data located in Australia.

Iteration 5

Epic: Achieving additional functions (if any) and combine the enrolment system of our team with another team's learning system

Iteration 5 is going to check if anything else doesn't achieve and combine the system with the other group; For example, Multiple users may not be allowed to use the same login simultaneously.

Iteration 6

Epic: Conducting an overall final test

Final iteration is the final test. This is the last step in this whole project. Revise iteration based on changes identified in the Acceptance Test (if any) for acceptance. No new functions added. NO further analysis required for Revised Final iteration.

Project Organization

System Development Approach

For the development approach of this project, our team would adopt the Agile Methodology, an incremental development methodology, this approach is adaptive, it is also flexible for responding changes by working the whole project in several iterations. For our project, there are five iterations, each iteration may last for a few weeks, at the end of each iteration, our team will have a finalized deliverable. By adopting the Agile method, the client could check our deliverables every few weeks and provide feedback, it is helpful for the client to understand the project status and for our team to make changes according to the feedback from the client.

For each delivery cycle(iteration), our team will work on the project based on the iteration plan (refer to), IE Mentors will check our progress and provide some guidelines. Our team will hold meetings regularly with the client to further understand the client's requirements. At the end of each iteration, our team will deliver the deliverables been done during this iteration to the client for feedback, it is vital for Alex to give feedback as the feedback would be helpful for our team to make changes accordingly in the next iteration. In this way, after each iteration, the client could receive a system that better satisfies their requirements.

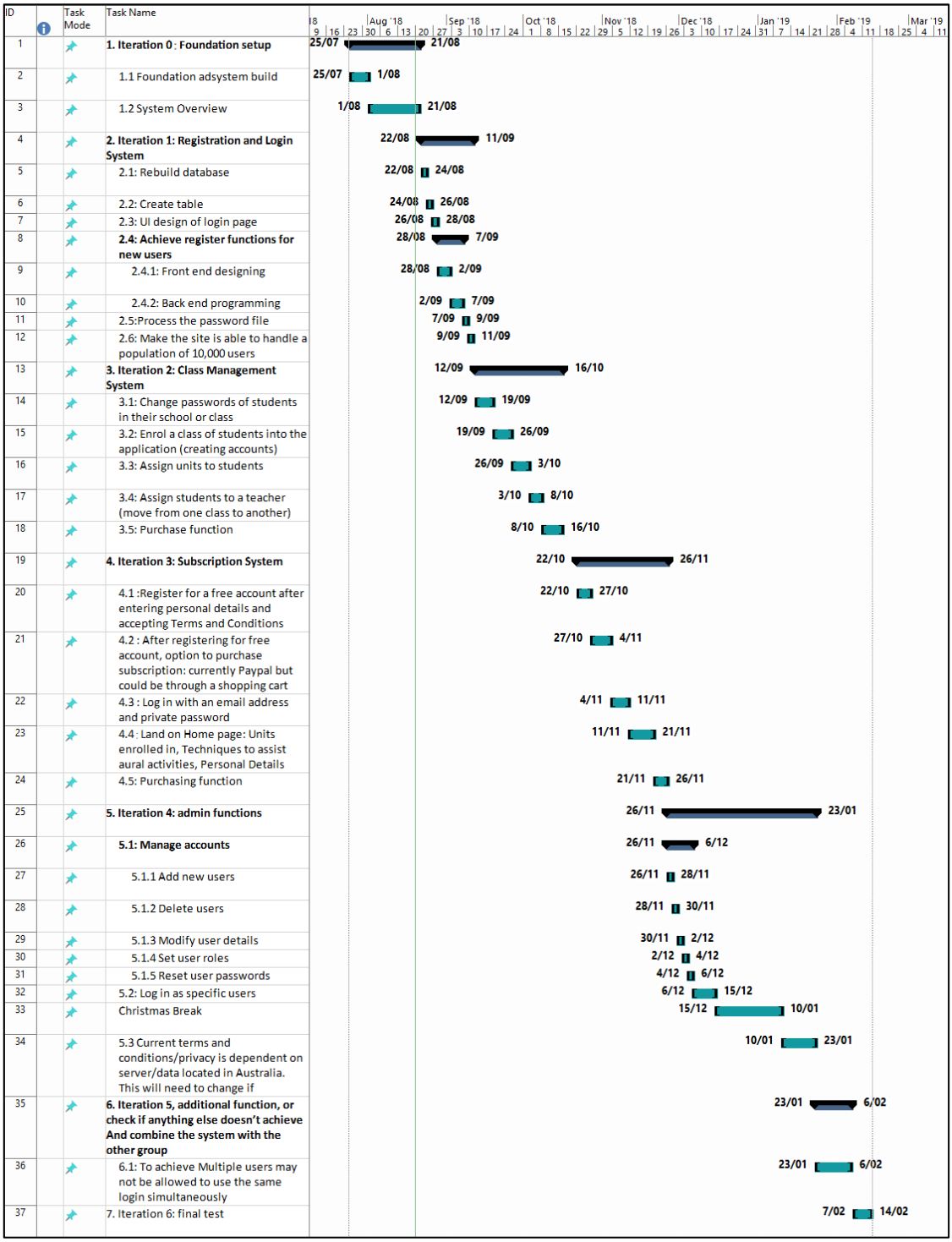
Team Structure

There are four team members in our team, Alwani Aman, Pinzhuo Zhao, Sai Zhang and Erlangga Priyaji. Alwani is the project manager and team leader, Pinzhuo is the client liaison. All team members are the system builder as all of us are responsible for the system development and implementation process. For the detailed responsibility of each team member, please refer to the table below:

Team Member	**Roles**	**Responsibility**
Alwani Aman	Project manager, Builder	• Organize the team meeting • Preparing meeting minutes and agenda • Manage the progress of the team • Building the system
Pinzhuo Zhao	Client liaison, Builder	• Communicate with the client (via email) • Preparing meeting minutes and agenda • Integrate the feedback from the client • Building the system
Sai Zhang	Builder, Programmer	• PHP programming • Web designing • Building the system
Erlangga Priyaji	Builder, Programmer, Team liaison	• Database designing • SQL programming • Communicate with another group

Overall Project Plan

Gantt chart



ID	Task Mode	Task Name
1		**1. Iteration 0 : Foundation setup**
2		1.1 Foundation adsystem build
3		1.2 System Overview
4		**2. Iteration 1: Registration and Login System**
5		2.1: Rebuild database
6		2.2: Create table
7		2.3: UI design of login page
8		**2.4: Achieve register functions for new users**
9		2.4.1: Front end designing
10		2.4.2: Back end programming
11		2.5:Process the password file
12		2.6: Make the site is able to handle a population of 10,000 users
13		**3. Iteration 2: Class Management System**
14		3.1: Change passwords of students in their school or class
15		3.2: Enrol a class of students into the application (creating accounts)
16		3.3: Assign units to students
17		3.4: Assign students to a teacher (move from one class to another)
18		3.5: Purchase function
19		**4. Iteration 3: Subscription System**
20		4.1 :Register for a free account after entering personal details and accepting Terms and Conditions
21		4.2 : After registering for free account, option to purchase subscription: currently Paypal but could be through a shopping cart
22		4.3 : Log in with an email address and private password
23		4.4 : Land on Home page: Units enrolled in, Techniques to assist aural activities, Personal Details
24		4.5: Purchasing function
25		**5. Iteration 4: admin functions**
26		**5.1: Manage accounts**
27		5.1.1 Add new users
28		5.1.2 Delete users
29		5.1.3 Modify user details
30		5.1.4 Set user roles
31		5.1.5 Reset user passwords
32		5.2: Log in as specific users
33		Christmas Break
34		5.3 Current terms and conditions/privacy is dependent on server/data located in Australia. This will need to change if
35		**6. Iteration 5, additional function, or check if anything else doesn't achieve And combine the system with the other group**
36		6.1: To achieve Multiple users may not be allowed to use the same login simultaneously
37		7. Iteration 6: final test

Note: A phase represent an iteration of our project, milestone indicates a major progress point that must be reached to achieve success

Phase 1 (Iteration 1)

Epic: Creating the Registration and Login System

Timeline: From **22/08/2018 to 11/09/2018**

User Stories:

- As a student, I want to be able to register as a free trial account of the learning program, so that I can try before committing to pay for the subscription.
- As a teacher, I want to be able to create accounts for my students, so that when the students started studying for the course they already have an account created.
- As a teacher, I want to be able to know if my students already has an account on the system using their email, so that I do not need to register them again.
- As an admin, I want the teacher to register their students to the system by themselves, so that they do not need to wait for me to register their students.

Tasks:

- Designing and creating a fully functioning database for the new IB website
- Designing the user interface of the login page (Front end)
- Achieving the basic functions of the login page: ***Register a new account, login, forget password***. (Back end)
- Setting up the MySQL database on the web server
- To conduct a load testing of the login page

Deliverables:

- A fully functioning login page with MySQL database settled up
- A load testing report
- Weekly progress report

Milestone

A fully functioning login page has been implemented for the new IB website and the load testing has been done as well.

Phase 2

Epic: Creating the Class Management System

Timeline: From **12/09/2018 to 16/10/2018**

User Stories:

- As a teacher, I want to be able to assign students to a teacher, so that me and the other teachers can coordinate with ourselves to move a student.
- As a Teacher, I want to be able to enrol a class of students, so that I do not need to enrol students one by one.
- As a teacher, I want to be able to create classes for the school, so that I can be the admin and be the representation for my school for creating classes.
- As an admin, I want to be able to add or delete students from a class, so that I have that ability if the teachers or schools cannot do it themselves.
- As an admin, I want to be able to create a class for teachers, so that I have the ability if the teachers cannot create a class.

Tasks:

- Achieving the changing password function
- Enabling the teacher to enrol a class of students to the system, assigning units to students and managing students (move from one class to another)
- Connecting the web server to a suitable payment system

Deliverables:

- A fully functioning page for teacher to manage the students and class
- Weekly progress report

Milestone

A fully functioning page has been implemented for the teachers to manage students, and the payment system has been attached to the web server.

Phase 3

Epic: Creating a Subscription System

Timeline: From **22/10/2018 to 26/11/2018**

User Stories:

- As a student, I want to be able to subscribe to units, so that I can learn what unit is needed for my specific year level in a bundle.
- As a student, I want to be able to buy more units outside of my subscription, so that I could practice more without the help of a teacher.
- As a Teacher, I want to be able to pay the subscription of my students, so that the payment from the students can come from their school fees.

Tasks:

- Enabling the free trial function for individual students
- Achieving the purchasing(subscription) function for both individual students and teachers
- Designing the user interface for purchasing subscription

Deliverables:

- A fully functioning page for teacher and individual students to purchase subscription
- Weekly progress report

Milestone

A fully functioning page has been implemented for both of the individual students and the teachers are able to purchase subscription.

Phase 4

Epic: Creating a Management System for admin

Timeline: From **26/11/2018 to 23/01/2019**

User Stories:

- As an administrator, I want to be able to login as specific users, so that I know how other users interact with the website
- As an administrator, I want to be able to manage accounts of the users (add new user, delete user, modify user detail), so that I could better manage the website

Tasks:

- Designing the user interface for administrators to manage the users (front end)
- Achieving the functions for administrators to manage user accounts
- Achieving the functions for administrators to modify user authorization

Deliverables:

- A fully functioning page for administrators to manage the users and their accounts
- Weekly progress report

Milestone

A fully functioning page has been implemented for administrators to manage the users and their accounts.

Note: There will be three weeks of break between Phase 4 and Phase 5

Phase 5

Epic: Achieving additional functions (if any) and combine the enrolment system of our team with another team's learning system

Timeline: From **23/01/2019 to 06/02/2019**

Tasks:

- Asking the client if there is any additional function needed
- Achieving the additional functions (if any)
- Combining the enrolment system with the learning system (done by another team)

Deliverables:

- A page that implemented the additional function
- A complete website that has both the enrolment system and learning system
- Weekly progress report

Milestone

A complete website combined by enrolment system and learning system has been created.

Phase 6

Epic: Conducting an overall final test

Timeline: From **07/02/2019 to 14/02/2019**

Tasks:

- Testing all aspects of the completed website to find out any bugs/ problems
- Making improvement to the completed website (if needed)

Deliverables:

- A final website after testing
- A testing reports
- Weekly progress report

Milestone

A series of testing has been conducted and a final website is ready for use.

Risk Management Plan

No.	Risk	Description	Category	Potential Responses	Probability	Impact
R01	Lack of knowledge of website designing/ developing	Because the developing skills of the project team is limited, and all of the team members are not quite familiar with PHP language, the web designing and developing process may be struggle.	People Risk	The team should develop relevant skills by watching PHP programming videos and documentations	Medium	High
R02	Terms and conditions/privacy issue	Current terms and conditions/privacy is dependent on server/data located in Australia, this will need to change if the new IB website is expanding the scale (If there are users from different countries/ regions outside of Australia).	Legal Risk	Preparing terms and conditions/ privacy for other possible countries/regions beforehand	High	Medium
R03	Database sharing issue	As there are two teams working on this project (different system), the database should be shared between the two teams, therefore there could be a situation that a team modified/deleted part of the database and cause another team's system unable to work properly.	Technology Risk	The two teams should create a communication channel, and when a team needs to modify the shared database, another team should be informed in advance.	Low	High

Probability/Impact Matrix

Probability	High		R02	
	Medium			R01
	Low			R03
		Low	Medium	High
		Impact		

Sign Off

Project Name: Language Tub Website Enrolment System

By signing this document, I acknowledge that I have reviewed the Language Tub System Overview Report and satisfied with all the stated specifications in this document.

I have read and understand the agreement above.

Language Tub : _____

Date : _____

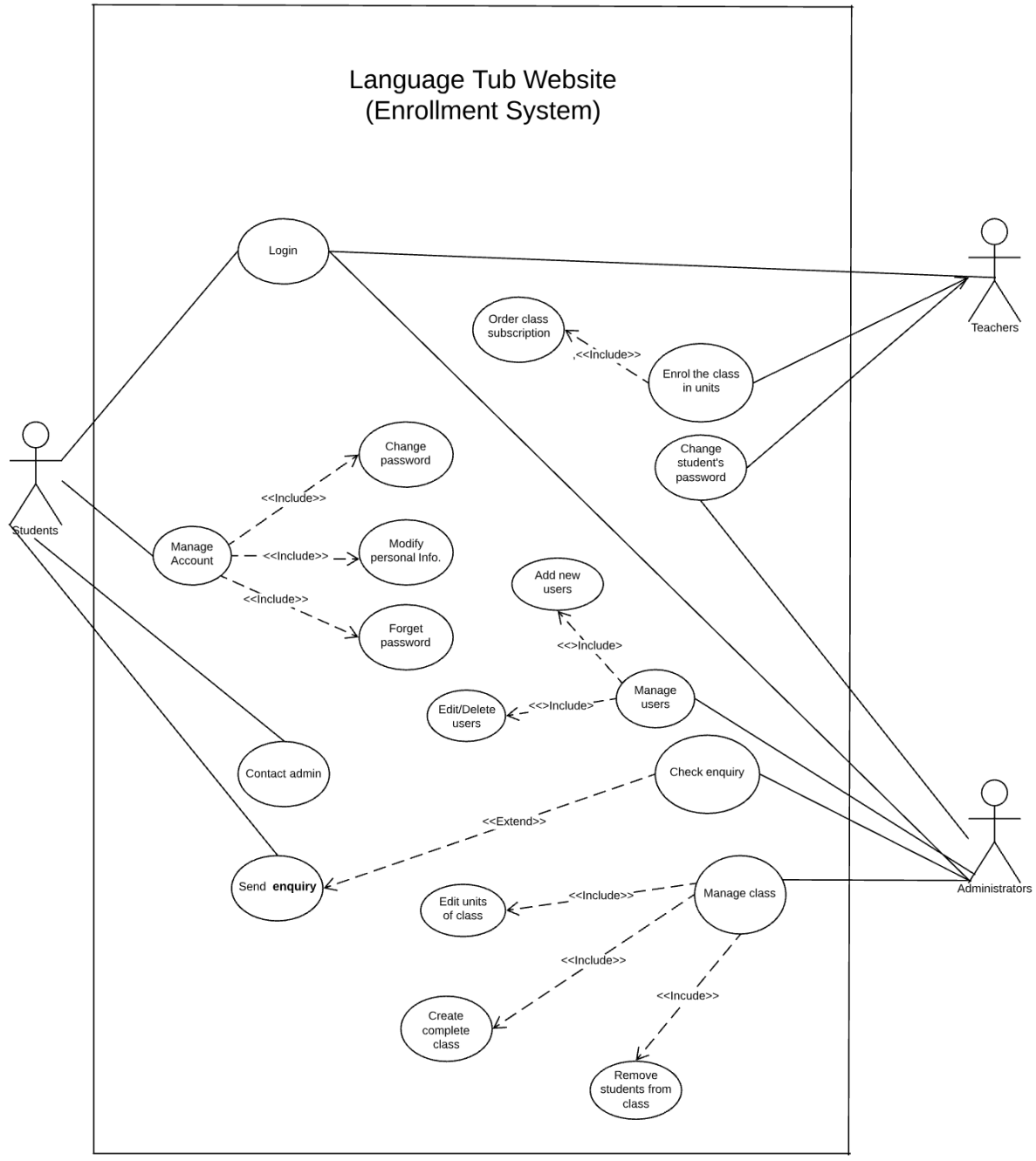
Witness : _____

Date : _____

Appendices

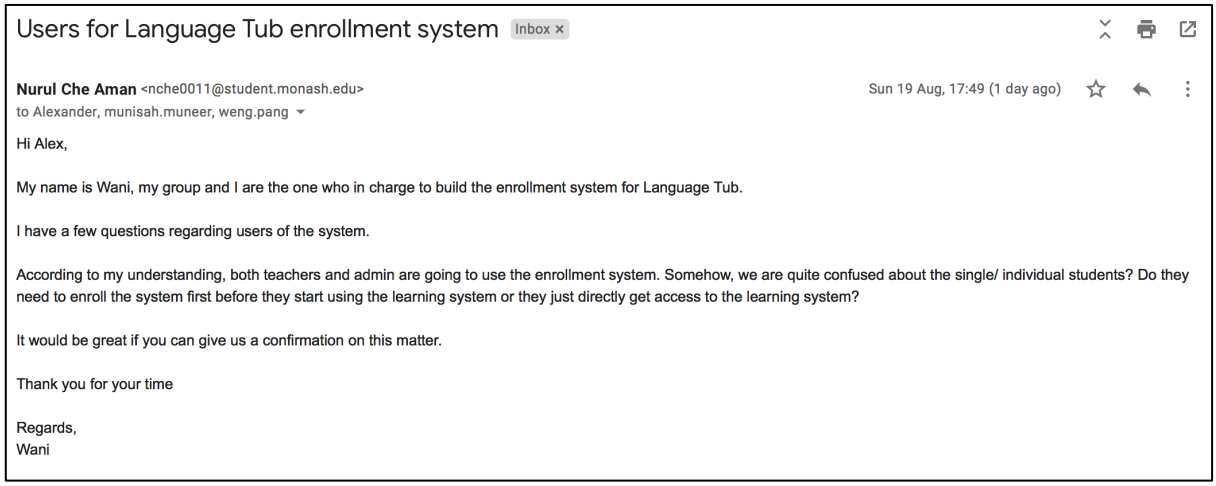
Development Artefact

Use Case Diagram of the Enrolment System



Client Interactions

Client's Email



Users for Language Tub enrollment system Inbox ×

Nurul Che Aman <nche0011@student.monash.edu> Sun 19 Aug, 17:49 (1 day ago)
to Alexander, munisah.muneer, weng.pang

Hi Alex,

My name is Wani, my group and I are the one who in charge to build the enrollment system for Language Tub.

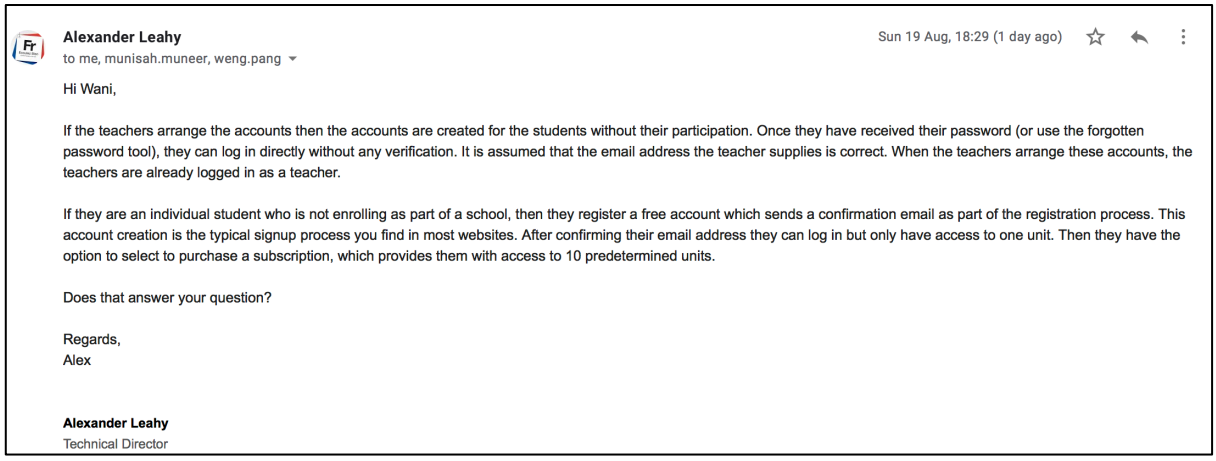
I have a few questions regarding users of the system.

According to my understanding, both teachers and admin are going to use the enrollment system. Somehow, we are quite confused about the single/ individual students? Do they need to enroll the system first before they start using the learning system or they just directly get access to the learning system?

It would be great if you can give us a confirmation on this matter.

Thank you for your time

Regards,
Wani



Alexander Leahy Sun 19 Aug, 18:29 (1 day ago)
to me, munisah.muneer, weng.pang

Hi Wani,

If the teachers arrange the accounts then the accounts are created for the students without their participation. Once they have received their password (or use the forgotten password tool), they can log in directly without any verification. It is assumed that the email address the teacher supplies is correct. When the teachers arrange these accounts, the teachers are already logged in as a teacher.

If they are an individual student who is not enrolling as part of a school, then they register a free account which sends a confirmation email as part of the registration process. This account creation is the typical signup process you find in most websites. After confirming their email address they can log in but only have access to one unit. Then they have the option to select to purchase a subscription, which provides them with access to 10 predetermined units.

Does that answer your question?

Regards,
Alex

Alexander Leahy
Technical Director

Meeting Agenda & Minutes

Meeting Agenda & Minutes 1 (Meet & Greet)

MEETING AGENDA 1

Event : Client and Teams Meet and Greet

Date : 9th August 2018

Time : 5.45 pm - 7.00 pm

Venue : Building H1.16 - Monash University, Caulfield Campus

Attendees : Pinzhuo Zhao, Sai Zhang, Erlangga Priyaji, Alwani Aman

Client : Alex Leahy

Agenda Items

Time	Note
5.45 pm - 5.50 pm	Introduction - Client Introduction - Team Introduction
5.50 pm - 6.00 pm	Ask about the business and current system details Discuss about the current system
6.00 pm - 6.20 pm	Ask for general requirements of the website
6.20 pm - 6.40 pm	Ask for functionality requirement of the website
6.40 pm - 7.00 pm	Discuss about the time frame Conclude the interview Arrange the next meeting time

MEETING MINUTES 1

No: 01- 09/08/2018
Location: Building H1.16 - Monash University, Caulfield Campus
Attending: Pinzhuo Zhao, Sai Zhang, Erlangga Priyaji, Alwani Aman
Apologies: None
Meeting started: 5.45 pm
Meeting closed: 7.00 pm

Minutes from previous meeting: None

Business arising from previous meeting: None

Agenda

- Introduce meeting participants
    - Client's information checked
    - Contact information exchanged
- Discuss the business overview and system requirement
    - Review the current website together with the client
    - Client assigns all the group members as admin for the website
    - Non-functional and functional
- Arrange the next meeting
    - Organized team members' availability
    - Schedule the next meeting with the client on next week

Concerns:

No concerns at this point in time

Next meeting

The next meeting will be on Tuesday, 14th August 2018 - 5.30 pm at Monash University, Caulfield Campus. Exact venue to be advised.

Meeting Agenda & Minutes 2

MEETING AGENDA 2

Team Name : Squad 112

Date : 14th August 2018

Time : 5.30 pm - 7.40 pm

Venue : Building H6.94 - Monash University, Caulfield Campus

Attendees : Pinzhuo Zhao, Sai Zhang, Erlangga Priyaji, Alwani Aman

Client : Alex Leahy

Agenda Items

1. Introduce meeting participants
2. Review the purpose of the meeting
3. Business overview and system requirement
    a. Service provided by the website
    b. Type of customers and users
    c. Organization culture
4. Discuss the problems and issues with the current website
5. Discuss the functionalities and features
    a. Functionalities that client plans to keep on the website
    b. Functionalities client want to add on the website
6. Project expectation
7. Discuss the timeframe of project
8. Schedule the next meeting
9. Adjournment

MEETING MINUTES 2

No: 02- 14/08/2018
Location: Building H, Monash University Caulfield campus
Attending: Pinzhuo Zhao, Sai Zhang, Erlangga Priyaji, Alwani Aman
Apologies: None
Meeting started: 5.30 pm
Meeting closed: 7.40 pm

Minutes from previous meeting

This is the second meeting. The group members confirmed acceptance of the minutes of meeting 1.

Business arising from previous meeting
None

Agenda

- Introduce meeting participants
- Business overview and system requirements
    - Clarification of website name either Ecoutez Bien or Language Tub
    - The primary user for this system is students while the teachers is considered as secondary user of the system
- Issues with the current website
    - Back and forth enrolment procedure
    - Students not able to play the audio for listening exercise when they used their own devices at home
    - Server related, it does not respond the request about 30-60 seconds
    - User entry issues especially for private tutors
- Future functionalities and features
    - The client wishes to assign only one teacher to handle one class
    - Mobile friendly website - modify the site for smaller screen size and viewable in a smartphone browser
    - Separate two websites and databases for two branches - Language Tub and Ecoutez Bien
    - Load testing needed

    - Able to generate usage report
- Project timeframe
    - The project is expected to be completed in early 2019
- Divide the task with the other group
    - One group will build enrolment system and the other group will build the learning system for the website

Concerns:

No concerns at this point in time

Next meeting

The next meeting will be on Friday, 24th August 2018 - 10.00 am at Monash University, Clayton Campus. Exact venue to be advised.

MEETING AGENDA 3

Team Name : Squad 112

Date : Friday 24th August 2018

Time : 10:30 am - 11.15 am

Venue : Room D3, Law Library, Monash University, Clayton

Attendees : Pinzhuo Zhao, Sai Zhang, Erlangga Priyaji, Alwani Aman

Client : Emilie Layral

Agenda Items

Time	Note
10:30 - 10:35	Introduce meeting participants
10:35 - 10:40	Review the purpose of meeting and provide some update to the client
10:40 - 10:55	Requirements of the enrolment system (from the perspective of a teacher and administrator) • Features • Problem • Difficulty
10:55 - 11:05	Asking for current database information
11:05 - 11:15	Talk about the time for next meeting Adjournment