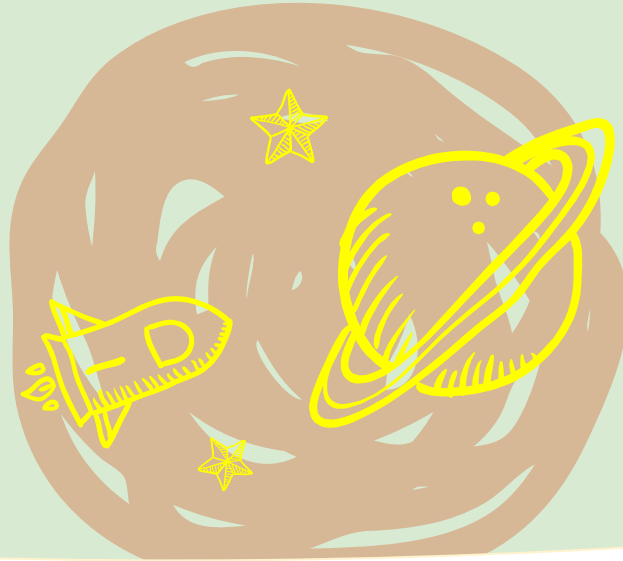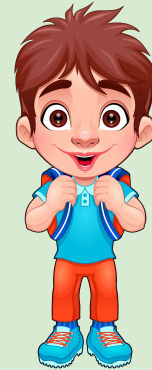# WhereIsMyTutor?

Presented By

## PSP Education Group 16
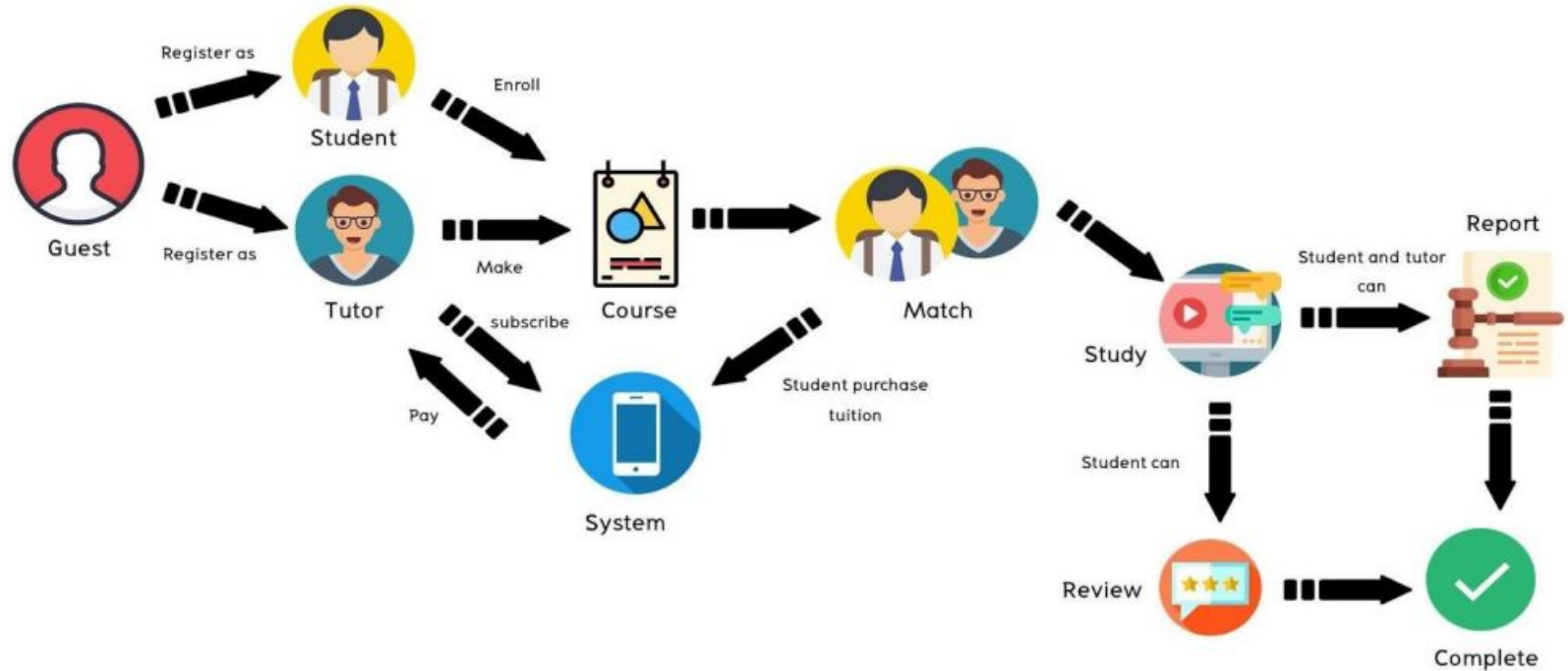
# Scopes of the project
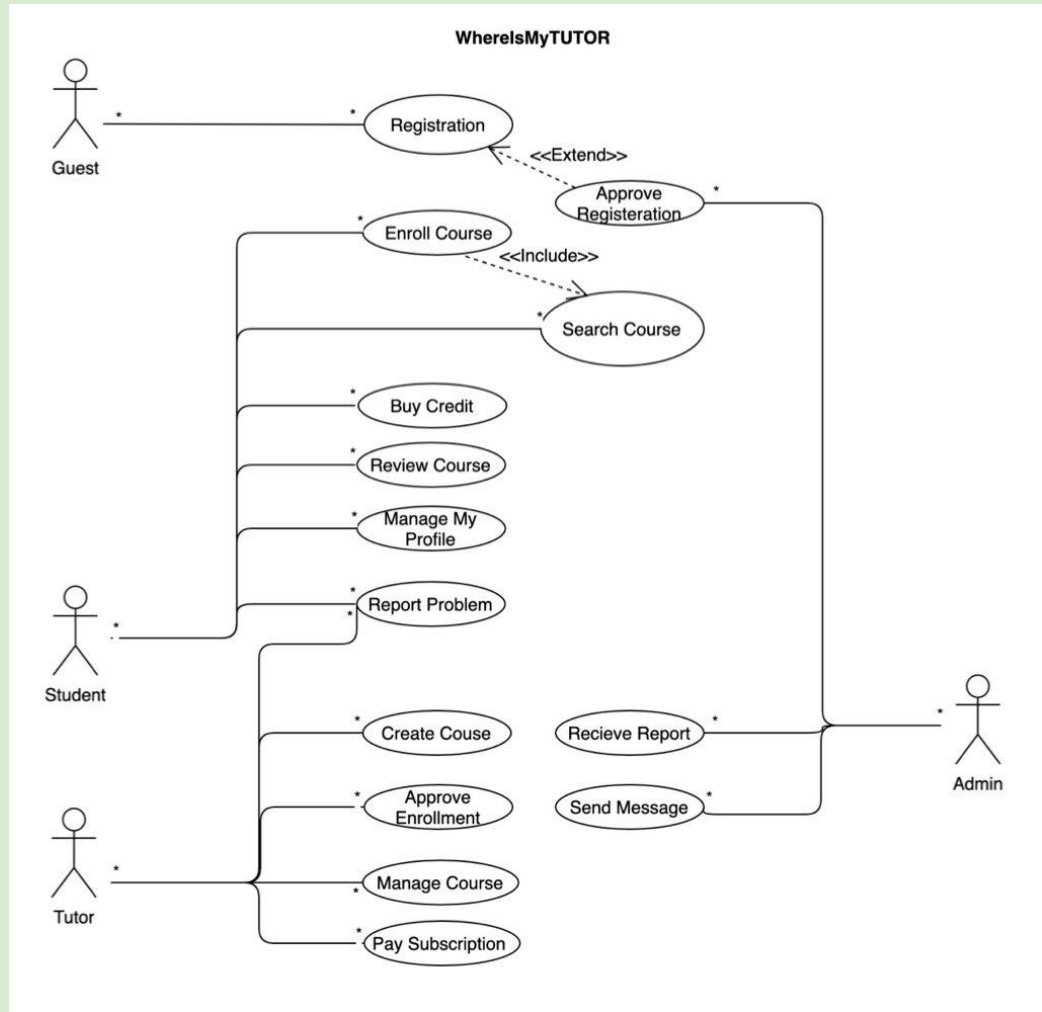
# Objective

# The to-be system

# Use case Diagram

# Functional requirements

- Registration and account management system
- Login system
- Course system
- Searching system
- Course Registration system
- Payment system
- Credit and rating system
- Administrative system

# Product Backlog

# Register system

| User Story ID | User Story | Acceptance criteria | Estimate (User Story Points) |
|---|---|---|---|
| US1-1 | As a guest,<br>I want to create account,<br>so that I can access to the application. | - Given that the guest enters all valid data, When the guest requests to create a student account, Then ensure the account is created.<br>- Given that the guest enters all valid data, When the guest requests to create a tutor account, Then ensure the admin receives the request to be approved later.<br>- Given that the guest enters any invalid data, When the guest requests to create an account, Then ensure the account is not created and inform error message to the guest. | 8 |

# Manage account

| US2-1 | As a user,<br>I want to edit my profile,<br>so that I can display my updated information. | - Given that the user enters all valid data, When the user requests to update an account, Then ensure the account information is updated.<br>- Given that the user enters any invalid data, When the user requests to update an account, Then ensure the account information is not update and inform error message to the user. | 5 |
|---|---|---|---|

# Login/Logout system

| | | | |
|---|---|---|---|
| US3-1 | As a user, I want to log in to the application, so that I can start using the application. | - Given that the user enters valid username and valid password to log in, When the user requests to log in to the application, Then ensure the user log in to the account. <br> - Given that the user enters invalid username or invalid password to log in, When the user requests to log in to the application, Then ensure the user cannot log in to the account and inform error message to the user. | 2 |
| US3-2 | As a user, I want to log out from the application, So that I can stop using the application. | Given that the user accepts logout confirmation message , When the guests request to log out from the application, Then ensure the user log out from the application. | 1 |

# Searching system

| US4-1 | As a student,<br>I want to search the course from preferences,<br>so that I can look for the course I want to enroll. | - Given that the student enters all valid data in searching box,<br>When the user want to search, Then ensure the student can search the course.<br>- Given that the student uses provided filter for the course,<br>When the user want to filter the course,<br>Then ensure the student can filter the course.<br>- Given that the student uses provided sorting factor,<br>When the user want to sort the course list,<br>Then ensure the student can sort the course list. | 8 |

# Course system

| US5-1 | As a tutor, I want to create courses, so that I can start teaching my courses. | - Given that the tutor enters all valid data, When the tutor requests to create a course, Then ensure the course is created.<br>- Given that tutor enters any invalid data, When the tutor requests to create a course, Then ensure the course is not created and inform error message to the tutor. | 5 |
|---|---|---|---|
| US5-2 | As a tutor, I want to edit my course information, so that I can update the course information that fit my preference. | - Given that the tutor enters all valid data, When the tutor requests to edit the course information, Then ensure the course information is updated.<br>- Given that tutor enters any invalid data, When the tutor requests to edit the course information, Then ensure the course information is updated and inform error message to the tutor. | 5 |

# Course system

| | | | |
|---|---|---|---|
| US5-3 | As a tutor,<br>I want to publish my course at any time,<br>so that the students are able to find my course. | - Given that the course is successfully created, the course is unpublished, and the tutor's subscription is valid, When the tutor requests to publish a course, Then ensure the course is published.<br>- Given the course is successfully created, the course is unpublished, and the tutor's subscription is invalid, When the tutor requests to publish a course, Then ensure the course is not published, and the error message is displayed.<br>- Given the course is published, When the tutor wants to unpublish course, Then ensure the course is unpublished. | 5 |
| US5-4 | As a tutor,<br>I want to receive a registration request,<br>so that I can accept/decline a registration request. | Given that the tutor receives a registration request, When the tutor accept a registration register, Then ensure the student is added to the course. | 5 |

# Payment system

| | | | |
|---|---|---|---|
| US6-1 | As a user,<br>I want to manage my payment method,<br>so that I can add or edit credit cards. | - Given that the user given the valid credit card,<br>When the user request to add the card,<br>Then user can add credit card.<br>- Given that the user given the valid credit card,<br>When the user request to edit the card,<br>Then user can edit credit card. | 8 |
| US6-2 | As a user,<br>I want to report issues,<br>so that I can indicate the problem to admin. | Given that the user report the payment issue,<br>When the user request to report the issue,<br>Then the user can indicate the problem to admin. | 5 |
| US6-3 | As a tutor,<br>I want to inspect my payment history,<br>so that I can view my payment history. | Given that the tutor has any payment history,<br>When the tutor requests to inspect payment history,<br>Then the tutor can view payment history. | 3 |

# Payment system

| US6-4 | As a tutor,<br>I want to pay for monthly normal subscription,<br>so that I can access any features of normal subscription. | Given that a tutor's subscription expires or a tutor is a newcomer, When the tutor want to access the normal features, Then notify the tutor to renew or pay for the subscription. | 8 |
|---|---|---|---|
| US6-5 | As a tutor,<br>I want to pay for monthly premium subscription,<br>so that I can access any features of premium subscription. | Given that the tutor has valid payment method,<br>When the tutor pay for monthly subscription,<br>Then ensure the tutor can access any features of premium subscription. | 8 |
| US6-6 | As a student,<br>I want to buy credits,<br>so that I can use my credits to pay for courses that I want to enroll. | Given that the student has enough money, When student buy credits, Then ensure the credits are added to his/her account. | 8 |

# Credit and rating system

| | | | |
|---|---|---|---|
| US7-1 | As a student, I want to review and rate the tutor, so that I can describe how good or bad the tutor is. | Given that student finish the course, When student review the tutor, Then the tutor rating is updated to the new rating. | 5 |
| US7-2 | As a student, I want to see the course updated rating and comments, so that I can decide which courses to study. | Given that student search for courses, When students want to see the course information, Then ensure the student can inspect the course rating and comments. | 3 |
| US7-3 | As a tutor, I want to display my course profile, so that I can show my information and teaching experience. | Given that the tutor login into the system, When tutor requests to display course profile, Then the course profile is shown properly. | 3 |

# Administrative system

| US8-1 | As an admin,<br>I want to receive reports from users,<br>so that I can resolve the problem. | Given that the user has already reported problem, When admin requests to display the report, Then ensure the admin can read the problem description. | 3 |
|---|---|---|---|
| US8-2 | As an admin,<br>I want to send response message to users,<br>so that I can inform the users. | Given that admin can give a response message, When the user report the problem, Then ensure the reported problem is informed. | 3 |
| US8-3 | As an admin,<br>I want to validate the tutor registration request,<br>so that I can approve the tutor account. | - Given that the tutor enters all valid data, When the admin want to approve the account, Then ensure the account is created.<br>- Given that the tutor enters any invalid data, When the admin want to approve the account, Then ensure the account is not created and inform error message to the tutor. | 3 |

# Notification system

| | | | |
|---|---|---|---|
| US9-1 | As a student,<br>I want to receive notification when the tutor accept or decline my requests,<br>so that I can know whether my enrollment is accepted or declined. | Given that the student has already successfully sent a registration request, When the tutor accepts or declines the request, Then ensure the student receives a notification. | 3 |
| US9-2 | As a tutor,<br>I want to receive notification when students enroll in my course,<br>so that I can accept or decline the request. | Given that the tutor has any published courses,<br>When the students enroll in those courses,<br>Then ensure that the request is sent to the tutor as notification. | 3 |
| US9-3 | As a tutor,<br>I want to receives a notification about my subscription expiration,<br>so that I can renew my subscription in time. | Given that a tutor's subscription expires, When the tutor enter the application, Then notify the tutor to renew the subscription. | 3 |

# Report system

| | | | |
|---|---|---|---|
| US10-1 | As a user,<br>I want to report problem to admin team,<br>so that I can have my problem resolved. | Given that user have a problem, When the user report the problem, Then ensure the reported problem is acknowledged by the admin team. | 3 |

# Enrollment system

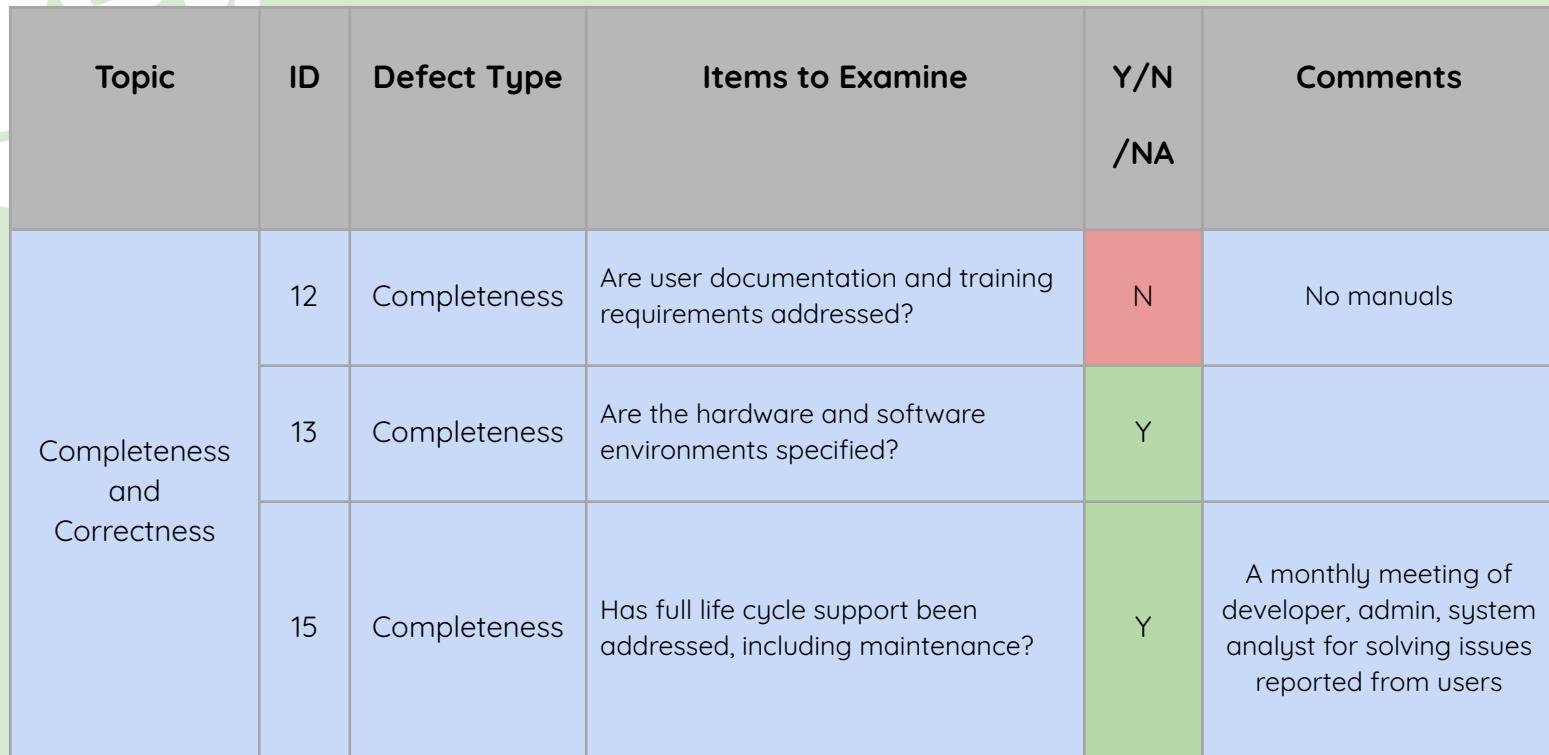| US11-1 | As a student,<br>I want to enroll in a course,<br>so that I can send a registration request to the tutor who teaches this course. | - Given that the course is published, the student capacity of the course is not full, When the student requests to enroll in the course, Then ensure the registration request is created, and ensure the student's credit is deducted.<br>- Given that the course is published, the student capacity of the course is already full, When the student requests to enroll in the course, Then ensure the registration request is not created, and ensure the student can't enroll, and ensure the student's credit is not deducted.<br>- Given that the course is published, the course is already started, When the student requests to enroll in the course, Then ensure the registration request is not created, and ensure the student can't enroll, and ensure the student's credit is not deducted. | 8 |

# Enrollment system

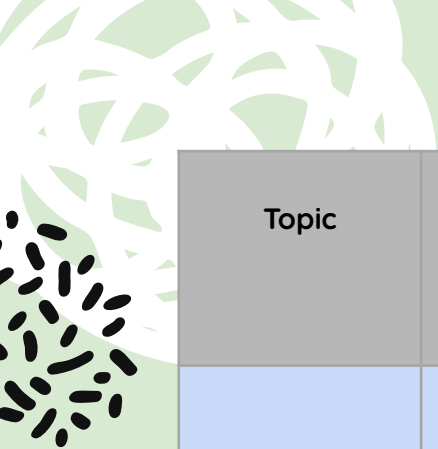| US11-2 | As a student,<br>I want to cancel an enrollment,<br>so that I can cancel a registration request I've sent to the tutor. | - Given that a student has sent a registration request once and the tutor has not accepted / declined it yet,<br>When the student cancels the enrollment request,<br>Then ensure that the request is cancelled, and ensure the student receive credits back within 3 days.<br>- Given that a student has sent a registration request once and the tutor has accepted it,<br>When the student cancels the enrollment request,<br>Then ensure that the student is unable to cancel.<br>- Given that a student has sent a registration request once and the tutor has declined it,<br>When the student cancels the enrollment request,<br>Then ensure that the request is cancelled | 8 |
|---|---|---|---|

# SRS Review Report

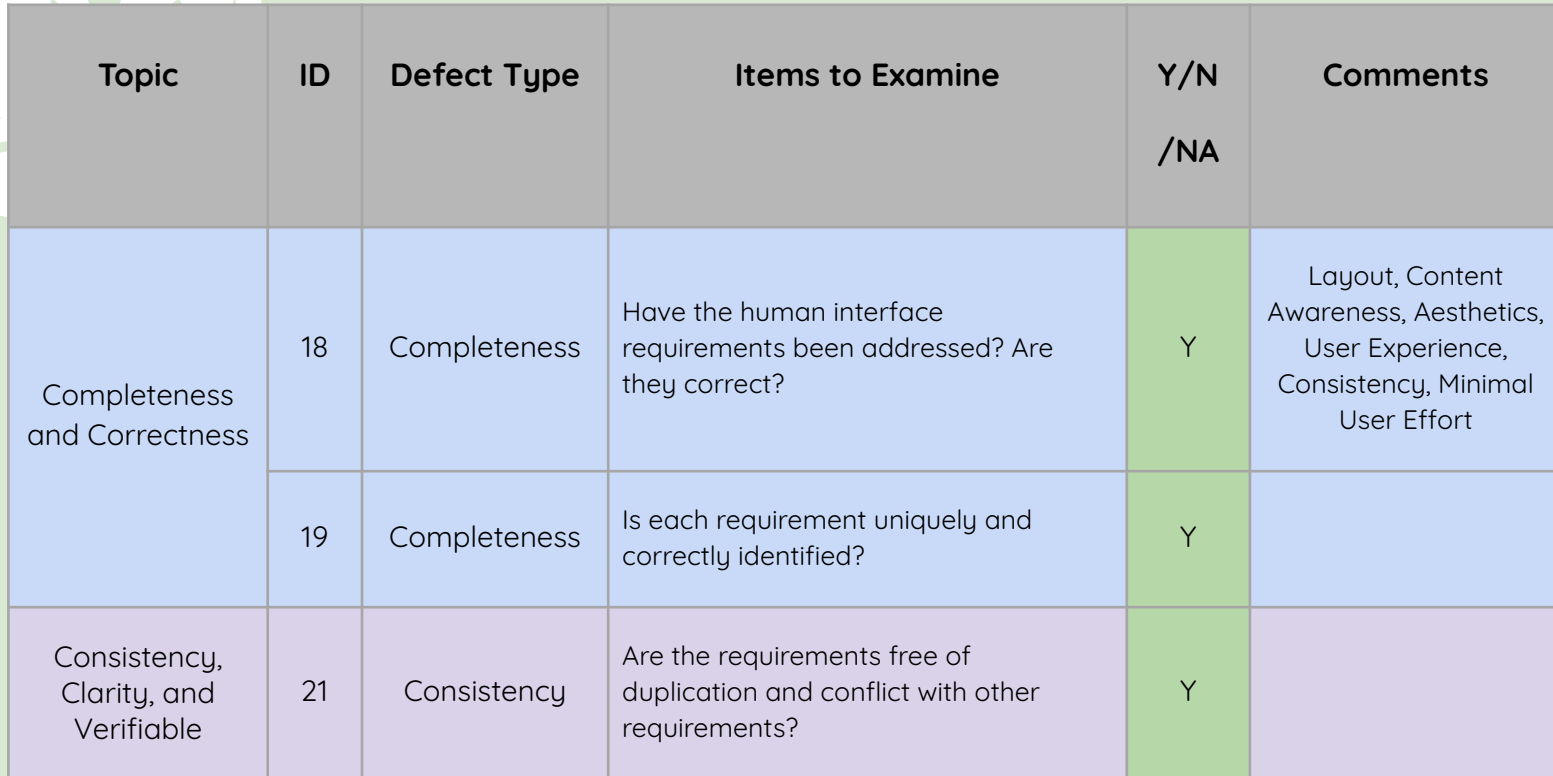| Topic | ID | Defect Type | Items to Examine | Y/N /NA | Comments |
|---|---|---|---|---|---|
| Organization and Structure of the Documentation | 4 | Standards | Are all requirements written at a consistent and appropriate level of detail? | Y | |
| Completeness and Correctness | 7 | Completeness | Are all classes of users described? Are the user characteristics described? | N | Not define type of the parameters |
| | 9 | Completeness | Is each requirement uniquely and correctly identified? | Y | |

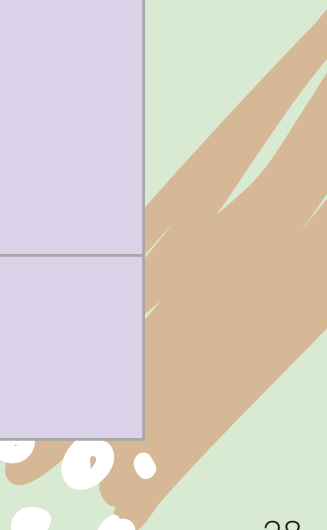| Topic | ID | Defect Type | Items to Examine | Y/N /NA | Comments |
|---|---|---|---|---|---|
| Completeness and Correctness | 10 | Completeness | Does each functional requirement specify input and output, as well as function, as appropriate? | N | No outputs for Course Registration System, Payment System (Subscription), Administrative System (Approve Account) |
| | 11 | Completeness | Have all dependencies on other systems been identified? (Applications or application interfaces, databases, communications subsystems, networking, etc.) | N/A | No files (schema diagrams, ER diagram) |

| Topic | ID | Defect Type | Items to Examine | Y/N /NA | Comments |
|---|---|---|---|---|---|
| Completeness and Correctness | 12 | Completeness | Are user documentation and training requirements addressed? | N | No manuals |
| | 13 | Completeness | Are the hardware and software environments specified? | Y | |
| | 15 | Completeness | Has full life cycle support been addressed, including maintenance? | Y | A monthly meeting of developer, admin, system analyst for solving issues reported from users |

| Topic | ID | Defect Type | Items to Examine | Y/N /NA | Comments |
|-------|-----|-------------|------------------|---------|----------|
| Completeness and Correctness | 16 | Completeness | Are any design or implementation constraints described? | Y | The system shall support the external API to operate the email service and OTP verification |
| | 17 | Completeness | Have non-functional requirements or all quality attributes (characteristics) been properly specified (i.e., efficiency, flexibility, interoperability, maintainability, portability, reusability, usability, availability)? | Y | |

| Topic | ID | Defect Type | Items to Examine | Y/N /NA | Comments |
|---|---|---|---|---|---|
| Completeness and Correctness | 18 | Completeness | Have the human interface requirements been addressed? Are they correct? | Y | Layout, Content Awareness, Aesthetics, User Experience, Consistency, Minimal User Effort |
| | 19 | Completeness | Is each requirement uniquely and correctly identified? | Y | |
| Consistency, Clarity, and Verifiable | 21 | Consistency | Are the requirements free of duplication and conflict with other requirements? | Y | |

| Topic | ID | Defect Type | Items to Examine | Y/N /NA | Comments |
|---|---|---|---|---|---|
| Consistency, Clarity, and Verifiable | 22 | Consistency | Is each requirement written in consistent, clear, concise language? | Y | |
| | 23 | Clarify | Does each requirement have only one interpretation? If a term could have multiple meanings, is it defined? | Y | |
| | 24 | Verifiable | Is each requirement verifiable by testing, demonstration, review, or analysis? | Y | |

| Topic | ID | Defect Type | Items to Examine | Y/N /NA | Comments |
|---|---|---|---|---|---|
| Traceability | 26 | Traceability | Is each requirement traceable to use case? | Y | |
| | 27 | Traceability | Is each use case traceable to a specified sequence diagram? | Y | |
| | 28 | Traceability | Are all sequence diagrams and their messages (methods and signatures) traceable to the class diagram (methods)? | Y | |

# Sprint 1 Backlog

# Register system

| As a guest,<br>I want to create account,<br>so that I can access to the application. | | |
| --- | --- | --- |
| | Setup project | 16 |
| | [BACK] Review ER Diagram | 2 |
| | [DESIGN] Review design system | 2 |
| | [DESIGN] Adjust current design | 1 |
| | [DESIGN] JSON API (Registration) | 1 |
| | [DESIGN] Registration UI | 2 |
| | [FRONT] Coding Registration Page | 8 |
| | [BACK] Registration API | 8 |
| | Automate tests | 4 |

# Login/Logout system

| | | |
|---|---|---|
| As a user,<br>I want to log in to the application,<br>so that I can start using the application. | [DESIGN] Login UI | 1 |
| | [FRONT] Coding Login Page | 8 |
| | [DESIGN] Menubar, Sidebar UI | 5 |
| | [FRONT] Coding Menubar, Sidebar | 3 |
| | [DESIGN] Home UI | 1 |
| | [FRONT] Coding Home Page | 8 |
| | [DESIGN] JSON API (Login/Logout) | 1 |
| | [BACK] Login API | 12 |
| | Automate tests | 4 |
| As a user,<br>I want to log out from the application,<br>So that I can stop using the application. | [FRONT] Logout on Menu | 1 |
| | [BACK] Logout API | 6 |
| | Automate tests | 4 |

# Course system

| As a tutor, I want to create courses, so that I can start teaching my courses. | [DESIGN] Course System UI | 2 |
| | [FRONT] Coding Course Manage Page | 8 |
| | [DESIGN] Create Course UI | 1 |
| | [FRONT] Coding Create Course Page | 4 |
| | [BACK] Course Create API | 8 |
| | [DESIGN] JSON API (Course) | 1 |
| | Automate tests | 4 |
| As a tutor, I want to edit my course information, so that I can update the course information that fit my preference. | [DESIGN] Course Information UI | 1 |
| | [FRONT] Coding Course Information Page | 5 |
| | [DESIGN] Course Edit UI | 1 |
| | [FRONT] Coding Course Edit Page | 2 |
| | [BACK] Course Update API | 8 |
| | Automate tests | 4 |

# Course system

| As a tutor, I want to publish / unpublished my course at any time, so that the students are able to find my course. | [DESIGN] Course Publish UI | 1 |
| | [FRONT] Coding Course Publish Page | 8 |
| | [BACK] Course Publish API | 8 |
| | Automate tests | 4 |
| As a tutor, I want to receive a registration request, so that I can accept/decline a registration request. | [DESIGN] Manage request UI | 1 |
| | [FRONT] Manage request in Course Page | 4 |
| | [BACK] Registration Request API | 4 |
| | Automate tests | 4 |

# Administration System

| As an admin,<br>I want to validate the tutor registration request,<br>so that I can approve the tutor account. | [DESIGN] Tutor Validation Page UI | 1 |
| --- | --- | --- |
| | [FRONT] Tutor Validation Page | 8 |
| | [DESIGN] JSON API (Validation) | 1 |
| | [BACK] Tutor Validation API | 8 |
| | [DESIGN] Admin Management UI | 1 |
| | [FRONT] Coding Admin Management Page | 8 |
| | [DESIGN] Admin Login UI | 1 |
| | [FRONT] Coding Admin Login Page | 4 |
| | [DESIGN] JSON API (Admin Login) | 1 |
| | [BACK] Admin Login API | 8 |
| | Automate tests | 4 |

# Team
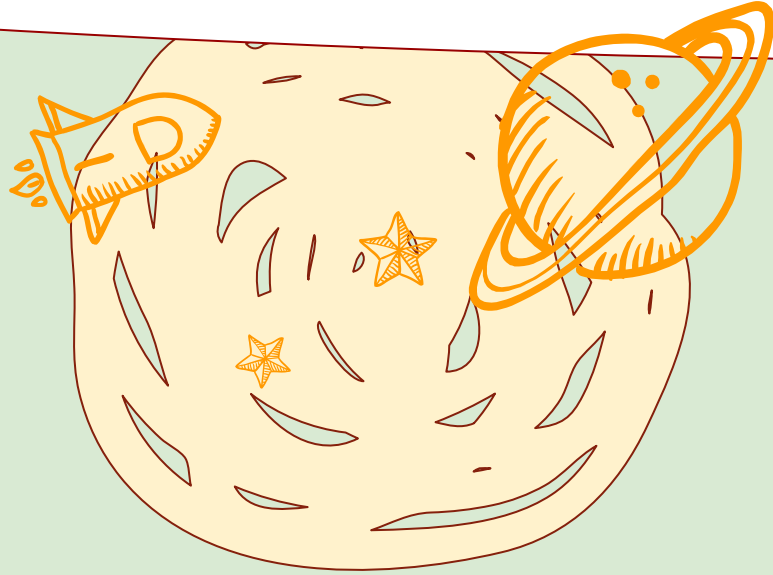
# Team

Suchakree Maneepakorn

Dragorn Padungpattanodom

Thanapat Trachu

Pongsapak Pulthasthan

Peeranath Theerawatanachai

Vorapon Khunakornkorbkij

Sahutsawat Sivakosit

Atibodee Champathes