SEEM 3430 Information Systems Analysis and Design

Course Project*: RCEP Online Transaction System*

Phase I – Requirements Specification

1 Introduction

The Regional Comprehensive Economic Partnership (**RCEP**) Agreement is a free trade agreement between the 10 ASEAN Member States1, Australia, China, Japan, Republic of Korea, and New Zealand. The RCEP will contribute to the region's economic recovery and strengthen confidence in the longer-term economic prospects of the region. Suppose you are a system analyst working in an *Information Systems Solutions Company*. Now you have a request from the **RCEP Business Department** to build an online transaction system which can provides a platform for SMEs, which will be launched in 2025. The system should be built on the background of Ecommerce and give full play to the regional advantages of RCEP. The online transaction system consists of the three major structures described as follows:

1.1 Customer System

The Customer System must provide the functions such as browsing, ordering and paying product for buyer. And you need to consider the function for customer to refund, which is an important function which can affect the entire system. In order to protect the rights and interests of customers, customer system should provide the refund service for a limited period. You should make the system ensure the safety of customers' funds in the limited period using Ecommerce System. You might consider the cultural and regional differences between the countries in RCEP.

1.2 Vendor System

The Vendor System must provide the functions such as adding, deleting products, shipping and refunding for seller. After receiving the order, the seller need to ship on time. And the seller can only receive the payment of buyer without refund in a limited period. If there is a refund, the seller should reimburse after receiving the return products. Otherwise, the seller should receive the money from Ecommerce System.

1.3 Ecommerce System

In order to protect the rights and interests of both buyers and sellers, the Ecommerce System is necessary. The Ecommerce System should act as an intermediary to provide trust and coordination between sellers and buyers. The payment of customer should first be held by Ecommerce System and then passed on to the seller. If there is a refund, then the payment should be returned to the customer with the seller's check and confirmation. You should also consider using eHKD or eCNY as transaction currency in the Ecommerce System.

System Request

After the planning stage, you received the following system request form:

Request: **RCEP Online Transaction System**
Project Sponsor: Dr WAN, Director of **RCEP Business Department**
Business Need: The project has been initiated to develop an online transaction system to provide a platform for SMEs. The system should allow customers buy products from sellers and provide an intermediary role to protect rights of both buyers and sellers. And the system should consider the pipeline of refunds. You also should try to apply the eHKD or eCNY in the Ecommerce System.

Business Requirement: Specific functionalities of the appointment system should include:
 	
1. Customer System
 	
    1.1 Allow buyer to browse, order, pay products and refund.
    1.2 Allow buyer to pay with eHKD or eCNY within Ecommerce System.
 	
2. Vendor System
 	
    2.1 Allow seller to add, delete, ship products and refund.
    2.2 Allow seller to withdraw eHKD or eCNY within Ecommerce System.
 	
3. Ecommerce System
 	
    3.1 Keep funds for buyers. Buyers can pay in eHKD or eCNY in the system.
    3.2 Keep funds for sellers. Sellers can withdraw eHKD or eCNY in the system.
    3.3 A refund pipeline is required for buyers and sellers.

Business Value: It is expected to streamline the process and avoid mistakes, by reducing manual operations required to maintain the system. Updating information and processing applications can be done in a more efficient and reliable way.
 	
Conservative estimates of tangible value include:
    • Saving wage of $200,000 per year for hiring extra staffs to manage the system.
    • Saving $10,000 for printing documents for internal use.

Special Issues or Constraints: The development of the system needs to be completed before December 2025 as system testing should be done by the end of 2025.

1 Assignments

According to the above description of the RCEP online transaction system, you are asked to write a system proposal consisting of:

(1) A brief survey report on RCEP around 500 words. Please explain the regional advantages of RCEP and how to take it with Ecommerce.

(2) In background of Ecommerce, compare eHKD and eCNY, and talk about how to internationalize them.

(3) At least 2 of the use cases of the system based on the requirements. (You may use the template provided in the next page. A similar example can be found in the textbook/ tutorial notes. You need to do the remaining in the final report, so you are encouraged to do more in this phase.)

2 Requirements

Deadline: **20th October, 2024, 23:59pm**
For Phase 1, please send it to Blackboard in the form of pdf file.

No late submission will be accepted!

According to the requirement of CUHK, every assignment handed in should be accompanied by a signed declaration. For group projects, all students of the same group should be asked to sign the declaration. For assignments in the form of a computer-generated document that is principally text-based and submitted via VeriGuide, the statement, in the form of a receipt, will be issued by the system upon students' uploading of the soft copy of the assignment. Assignments without the receipt will not be graded by teachers and TAs. Only the final version of assignment should be submitted via VeriGuide.

Declaration to be attached to assignments

For details please check:

http://www.cuhk.edu.hk/policy/academichonesty/Eng_htm_files_(2013-14)/index_page2.htm
https://www.cuhk.edu.hk/policy/academichonesty/Eng_htm_files_(2013-14)/p09.htm

Departmental Guideline of Plagiarism

If a student is found plagiarizing, his/her case will be reported to the Department Examination Panel. If the case is proven after deliberation, the student will automatically fail the course in which he/she committed plagiarism. The definition of plagiarism includes copying of the whole or parts of written assignments, programming exercises, reports, quiz papers, mid-term examinations and final examinations. The penalty will apply to both the one who copies the work and the one whose work is being copied, unless the latter can prove his/her work has been copied unwittingly. Furthermore, inclusion of others' works or results without citation in assignments and reports is also regarded as plagiarism with similar penalty to the offender. A student caught plagiarizing during tests or examinations will be reported to the Faculty office and appropriate disciplinary authorities for further action, in addition to failing the course.

Use Case Template

Use Case Name:		ID:		Importance Level:	
Primary Actor:					
Short Description:					
Trigger: Type: External/ Temporal					
Major Inputs Description:	Sources:		Major Outputs Description:		Destination:
1.			1.		
2.			2.		
3.			3.		
4.			4.		
Major Steps Performed:			Information for Steps:		
1.					
2.					
3.					
4.					
5.					

~ end ~