

**CSIS 3003**

**PROJECT I**

**Activities Management System**

**(Stage 2)**

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**Table of Contents**

[1.0 Data Flow Diagram 2](#_Toc7729)

* 1. Context Level Diagram 2
  2. DFD Diagram 0 3

2.0 Entity Relationship Diagram 7

3.0 Class Diagram 8

4.0 Use Case Diagram 6

4.1 Login System 6

4.2 Organizer System 6

4.3 Activity System 7

4.4 Payment system 7

5.0 Use Case Description 8

5.1 Login System 8,9

5.2 Organizer System 10,11,12

5.3 Activity System 13,14,15,16,17,18

5.4 Payment System 19,20,21

[6.0 Activity diagram 22](#_Toc18043)

6.1 Login System 22

6.2 Organizer system 23

6.4 Activity System 24

6.5 Payment System 25

[7.0 Sequence diagram 26](#_Toc8490)

7.1 Login System 26,27

7.2 Organizer System 28,29

7.3 Activity System 30,31

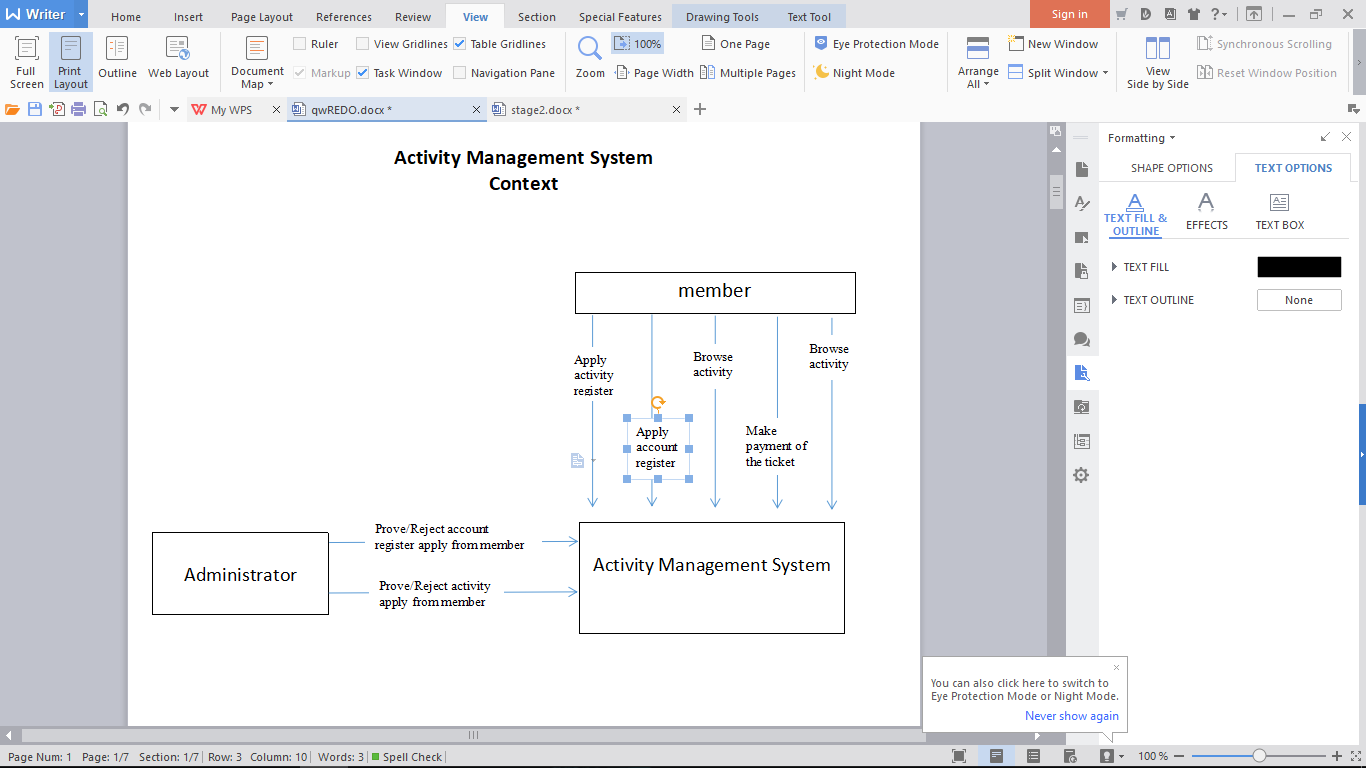
7.4 Payment System 32

**1.0 Data Flow Diagram**

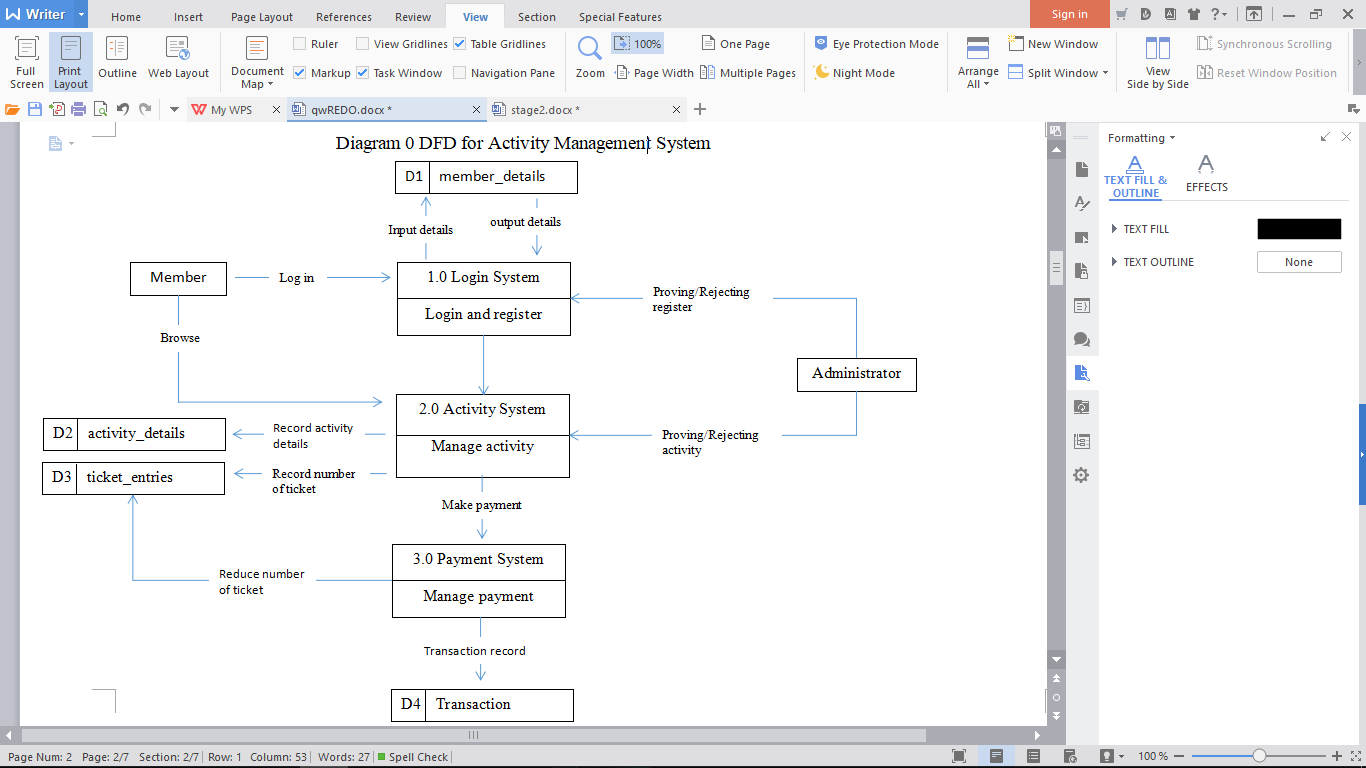
**1.1 Context Level Diagram**

**Activity Management System**

**Context**

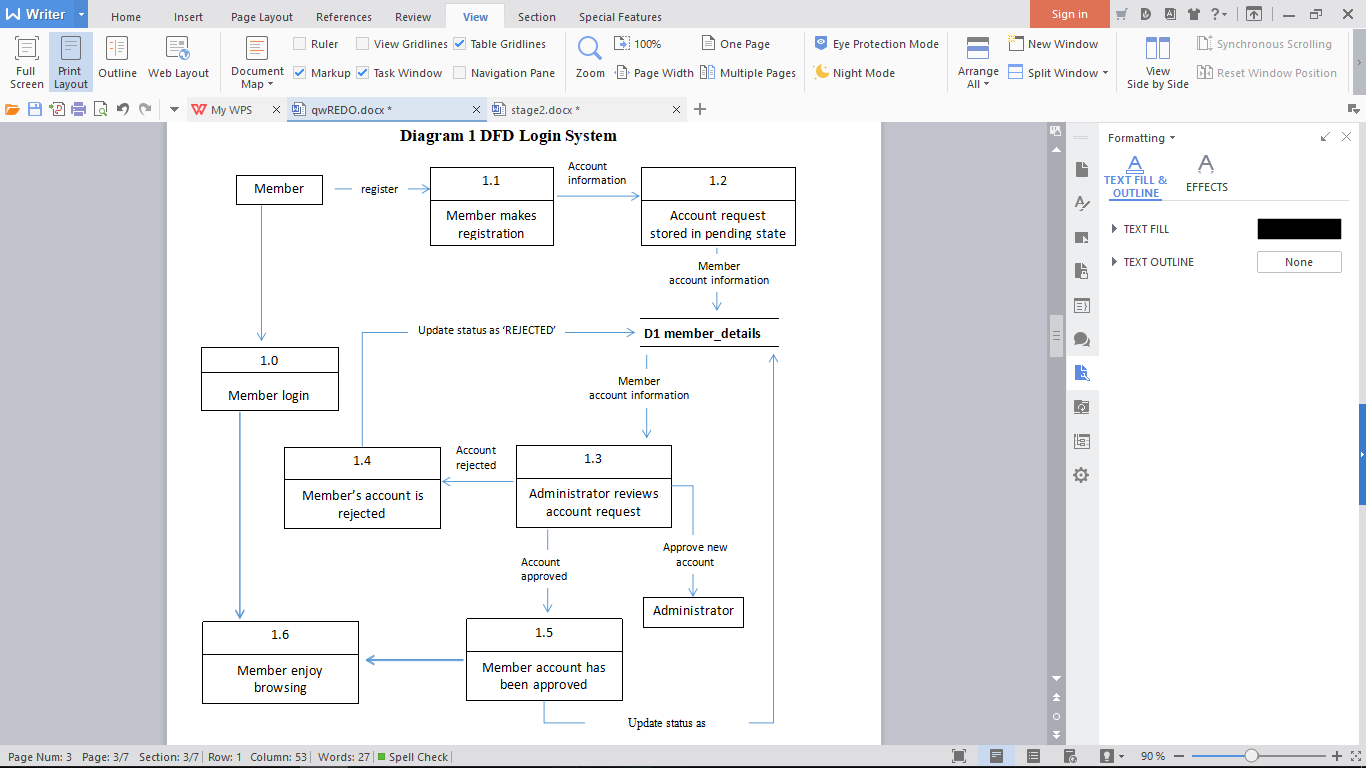


**1.2** Diagram 0 DFD for Activity Management System

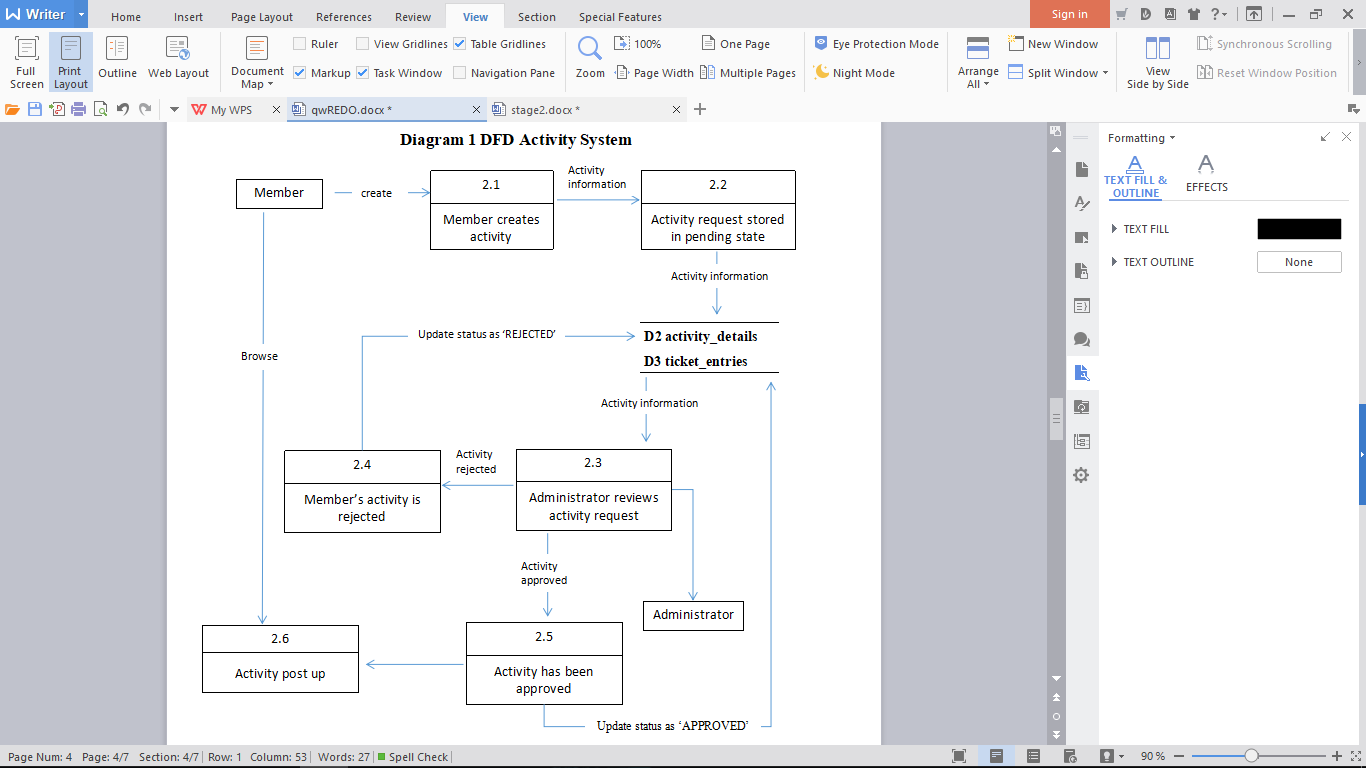


**1.3 DFD Diagram 1**

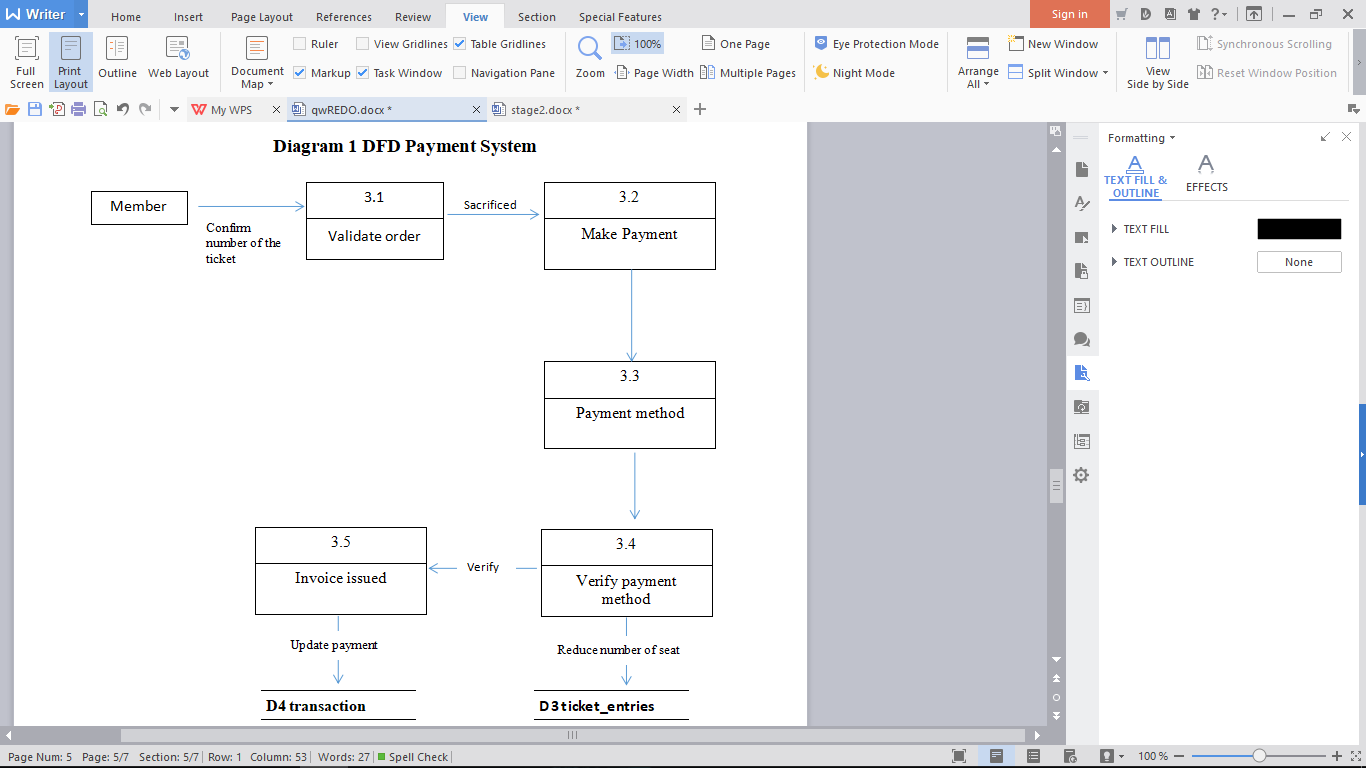
**Diagram 1 DFD Login System**

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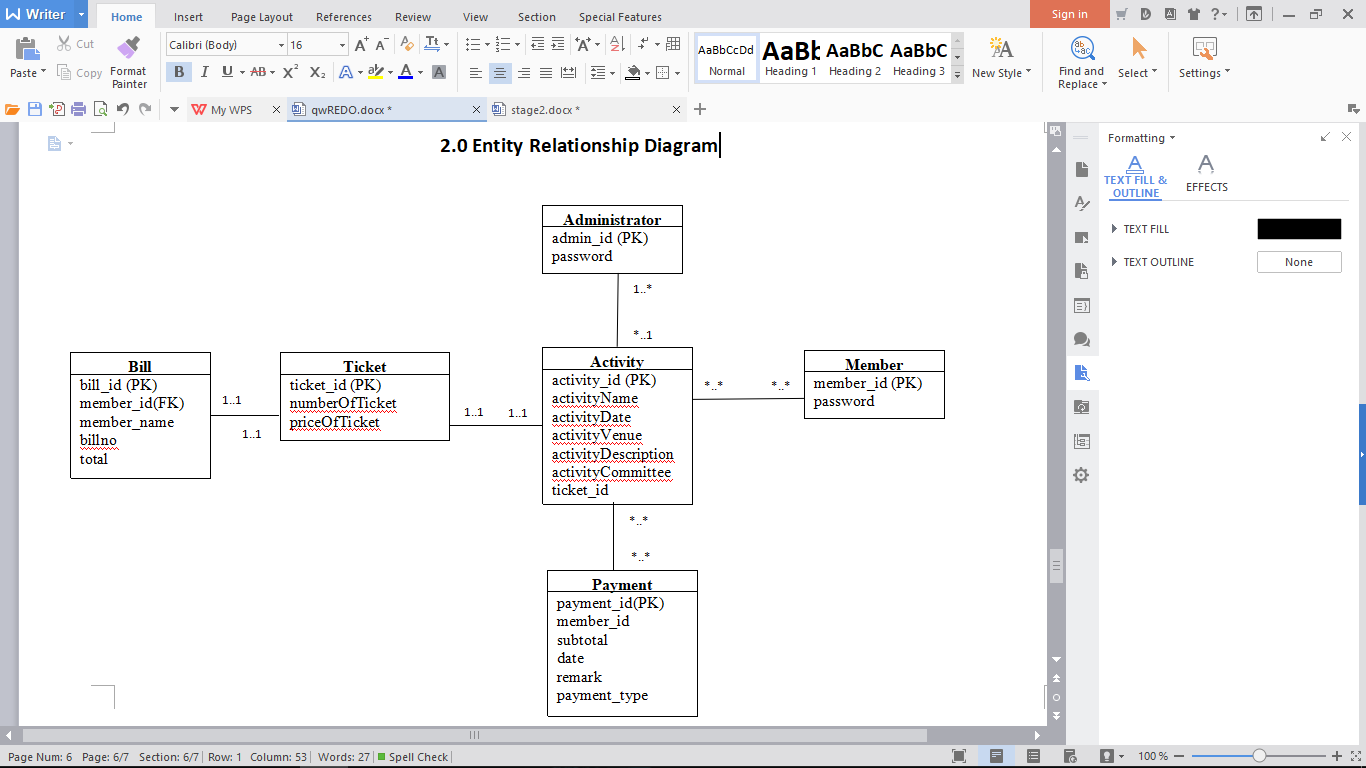
**Diagram 1 DFD Activity System**

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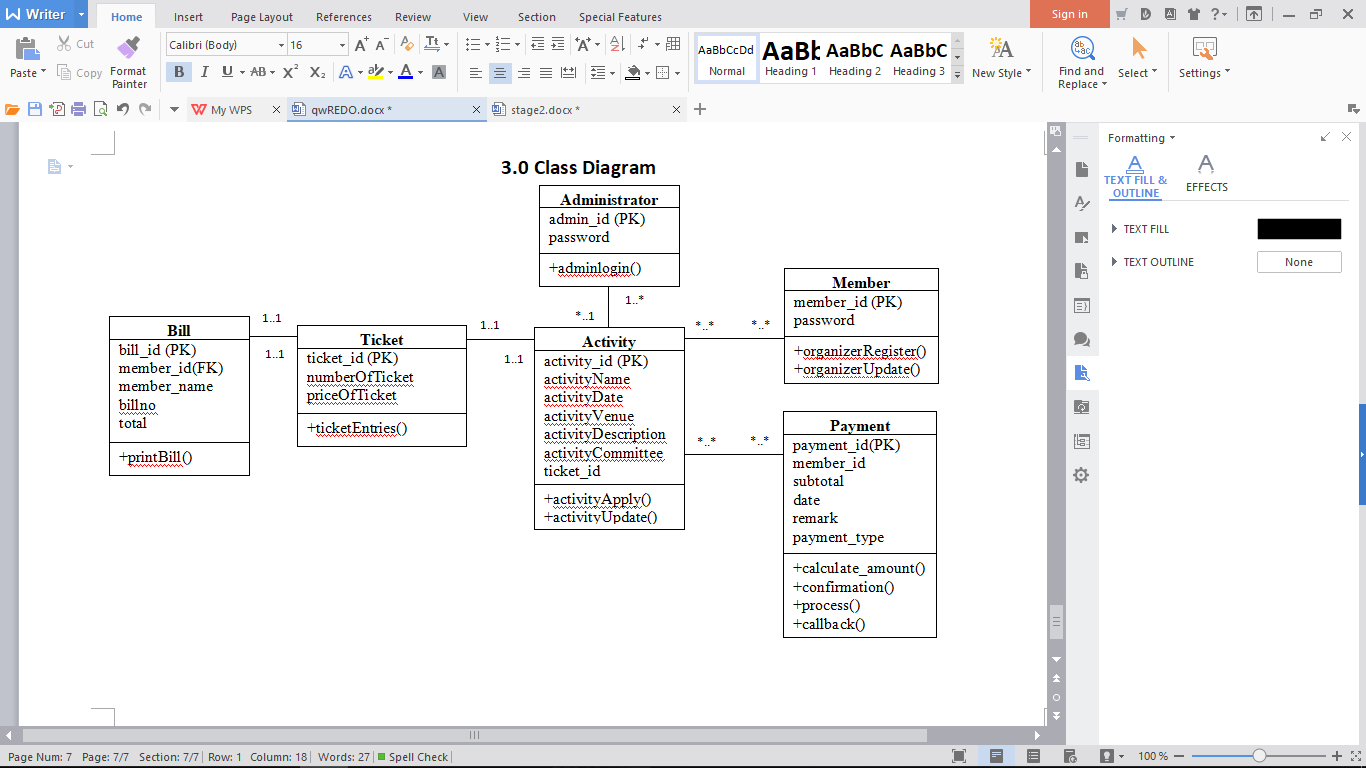
**Diagram 1 DFD Payment System**

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**2. Entity Relationship Diagram**

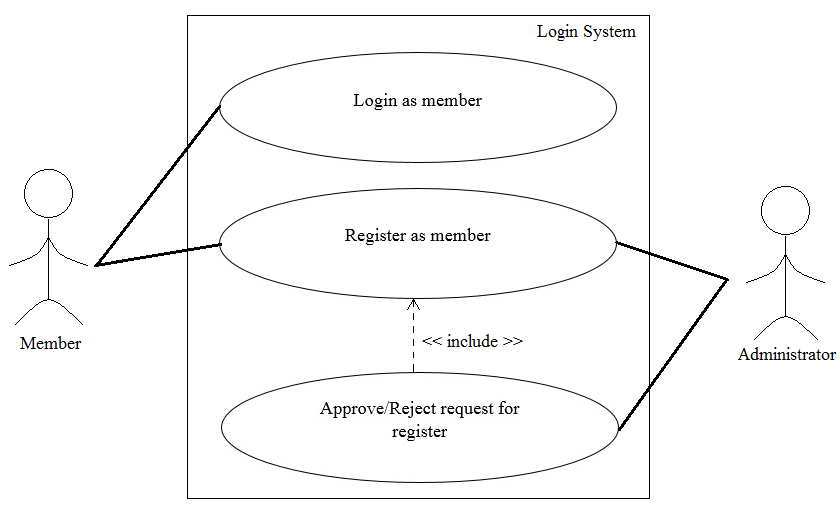
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**3.** **Class Diagram**

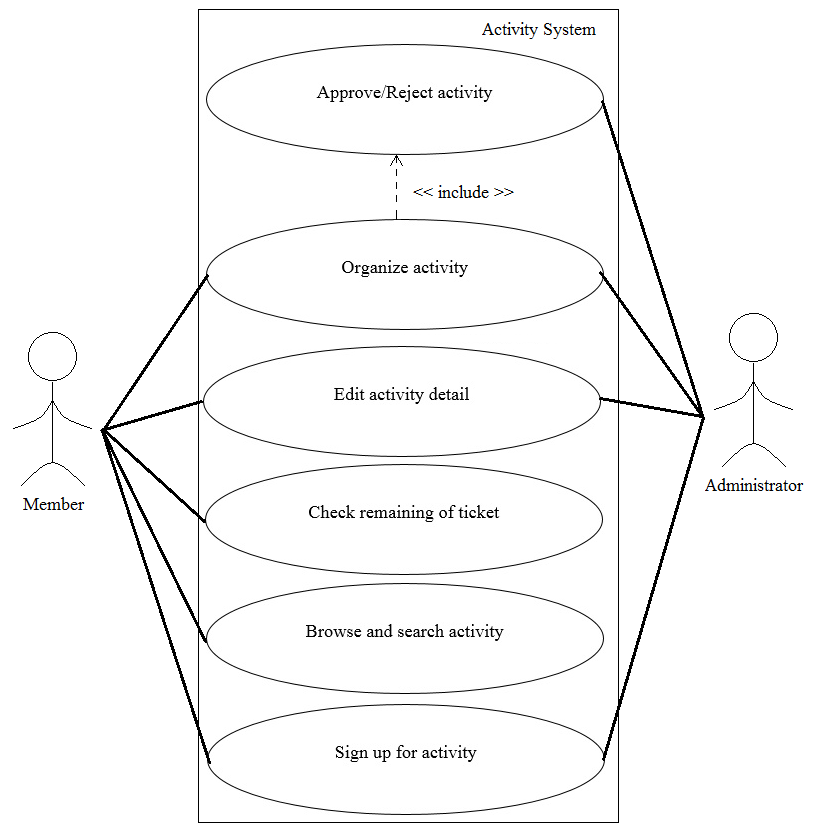


**4.0 Use case diagram**

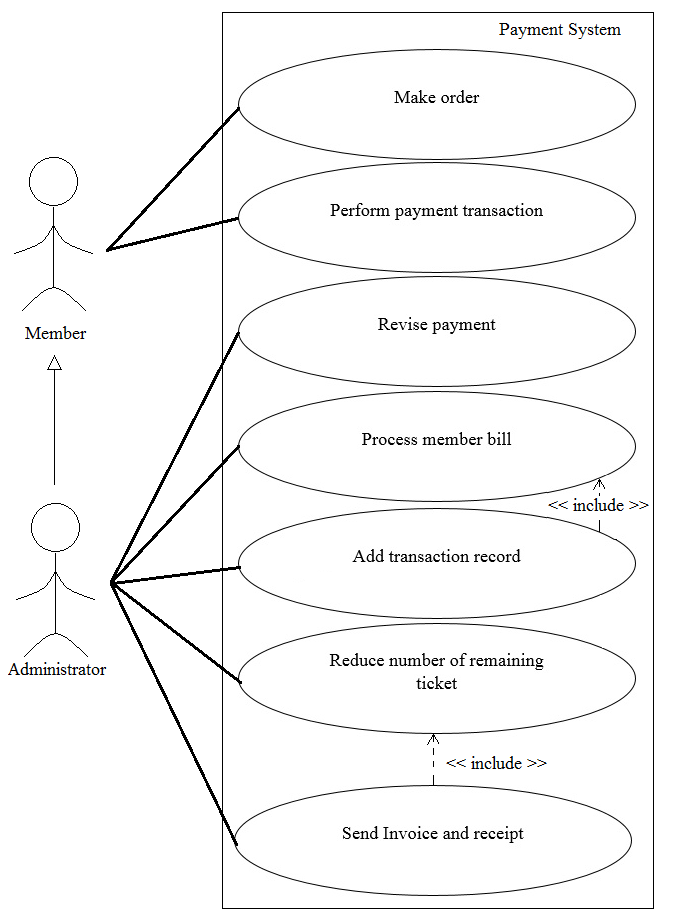
**4.1 Login System**

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**4.2 Activity System**

****

**4.3Payment System**

****

**5.0 Use case description**

**5.1 Login System**

|  |  |  |
| --- | --- | --- |
| **Use case: Login as member (Login System)** | | |
|
| Overview: This case describes how the member log in. | | |
|
| Pre-conditions:   1. Network connection with server required. | | |
|
| Post conditions:   1. Successful condition  * Member log in successfully. | | |
|
|
| Event | | Response |
| 1 | User browse the webpage system. | * + - * Display main page UI. |
| 2 | User select Login. | * + - * Display log in page UI. |
| 3 | User insert username and password required. | - |
| 4 | User select Login button. | * + - * Perform information validation.       * Display message “<Username> log in successfully.”       * Display member UI. |
| 5 | User login success. | * + - * User login as member. |
| Extensions | | |
| 4 | Invalid username and password. | * + - * Reject the request.       * Display error message.       * Re-enter information required. |

|  |  |  |
| --- | --- | --- |
| **Use case: Register as member (Login System)** | | |
|
| Overview: This case describes how the user register as member. | | |
|
| Pre-conditions:   1. Network connection with server required. | | |
|
| Post conditions:   1. Successful condition  * Member register had successfully. | | |
|
|
| Event | | Response |
| 1 | User browse the webpage system. | * + - * Display main page UI. |
| 2 | User select register. | * + - * Display register UI. |
| 3 | User insert username and password. | - |
| 4 | User select confirm button. | * + - * Checking contain same information with database.       * Display message “Thank you for register, please wait for administrator to approve this registration. |
| 5 | Administrator select view register. | * + - * Display register request list. |
| 6 | Administrator select approve registration | * + - * Insert member register information into member database.       * Display message registration approve had successfully. |
| 7 | User select check registration process. | * + - * Display message “Register successfully.” |
| 8 | User register success. | * + - * User register as member successfully. |
| Extensions | | |
| 4 | Same information detected. | * + - * Reject the request.       * Display error message.       * Re-enter information required. |
| 7 | Administrator select reject. | * + - * Display message “Register rejected.” |

**5.2 Activity System**

|  |  |  |
| --- | --- | --- |
| **Use case: Organize activity (Activity System)** | | |
|
| Overview: This case describes how the member organize activity. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Member login required. | | |
|
| Post conditions:   1. Successful condition  * Member organize activity successfully. | | |
|
|
| Event | | Response |
| 1 | Member login to webpage. | * + - * Perform account validation.       * Display main page UI. |
| 2 | Member select activity. | * + - * Display activity page with many options. |
| 3 | Member select organize activity. | * + - * Display organize activity UI and required insert activity detail. |
| 4 | Member insert activity detail. | - |
| 5 | Member select confirm. | * + - * Sending information to administrator.       * Display message “Please wait for admin to approve this request.” |
| 5 | Administrator select activity organize list. | * + - * Display request of activity organize list. |
| 6 | Administrator select approve. | * + - * Insert activity information into Activity and ticket entries database.       * Display message “Activity approved” |
| 7 | Member select view request status. | * + - * Display request list and status. |
| 8 | Member select activity. | * + - * Display message “Request approved.” |
| Extensions | | |
| 1 | Invalid account. | * + - * Display message “Please enter correct user Username/Password.”       * Clear the password text field. |
| 8 | Administrator select reject. | * + - * Display message “Request rejected.” |

|  |  |  |
| --- | --- | --- |
| **Use case: Edit activity (Activity System)** | | |
|
| Overview: This case describes how the member edit activity. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Member login required. 3. Activity had been organized. | | |
|
| Post conditions:   1. Successful condition  * Member edit activity successfully. | | |
|
|
| Event | | Response |
| 1 | Member login to webpage. | * + - * Perform account validation.       * Display main page UI. |
| 2 | Member select activity. | * + - * Display activity page with many options. |
| 3 | Member select activity from list. | * + - * Display the list of activity that organized. |
| 4 | Member select edit activity. | * + - * Receive activity detail from activity and ticket entries database.       * Display activity detail in text field. |
| 5 | Member edit the activity detail. | - |
| 6 | Member select confirm. | * + - * Update activity detail to activity and ticket entries database.       * Display message “Edit successfully.” |
| 7 | Member edit activity success. | - |
| Extensions | | |
| 1 | Invalid account. | * + - * Display message “Incorrect user ID/Password, please enter correct user ID/Password.”       * Clear the password text field. |

|  |  |  |
| --- | --- | --- |
| **Use case: Check remaining of ticket (Activity System)** | | |
|
| Overview: This case describes how the member check the remaining of ticket. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Member login required. 3. Activity had been organized. | | |
|
| Post conditions:   1. Successful condition  * Member check remaining of ticket successfully. | | |
|
|
| Event | | Response |
| 1 | Member login to webpage. | * + - * Perform account validation.       * Display main page UI. |
| 2 | Member select activity. | * + - * Display activity page with many options. |
| 3 | Member select activity from list. | * + - * Display the list of activity that had organized. |
| 4 | Member select ticket. | * + - * Display the remaining of ticket and other option. |
| 5 | Member check remaining of ticket successfully. | - |
| Extensions | | |
| 1 | Invalid account. | * + - * Display message “Incorrect user ID/Password, please enter correct user ID/Password.”       * Clear the password text field. |

|  |  |  |
| --- | --- | --- |
| **Use case: Browse and search activity (Activity System)** | | |
|
| Overview: This case describes how the member browse and search for activity. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Member login required. | | |
|
| Post conditions:   1. Successful condition  * Member browse and search activity successfully. | | |
|
|
| Event | | Response |
| 1 | Member login to webpage. | * + - * Perform account validation.       * Display main page UI. |
| 2 | Member insert activity name or type. | * + - * Display some similar activity under search bar. |
| 3 | Member select search. | * + - * Display all similar activity list. |
| 4 | Member browse and search activity had successfully. | - |
| Extensions | | |
| 1 | Invalid account. | * + - * Display message “Incorrect user ID/Password, please enter correct user ID/Password.”       * Clear the password text field. |
| 3 | Member insert name or type that not related at all. | * + - * Display message “The related activity is not found.” |

|  |  |  |
| --- | --- | --- |
| **Use case: Sign up for activity (Activity System)** | | |
|
| Overview: This case describes how the member sign up for activity. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Member login required. | | |
|
| Post conditions:   1. Successful condition  * Display make order page. | | |
|
|
| Event | | Response |
| 1 | Member login to webpage. | * + - * Perform account validation.       * Display main page UI. |
| 2 | Member select activity. | * + - * Display activity detail page and some option. |
| 3 | Member select sign up. | * + - * Display text field required insert personal information. |
| 4 | Member insert information. | - |
| 5 | Member select confirm. | * + - * Checking information missing.       * Display payment page. |
| Extensions | | |
| 1 | Invalid account. | * + - * Display message “Incorrect user ID/Password, please enter correct user ID/Password.”       * Clear the password text field. |
| 5 | User information missing | * Reject request * Display error message * Display message “Some information is missing, please fill the information.” |

**5.3 Payment System**

|  |  |  |
| --- | --- | --- |
| **Use case: Make order (Payment System)** | | |
|
| Overview: This case describes how the member make order to continue sign up progress. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Member login required. 3. Member had insert information and accepted by system. | | |
|
| Post conditions:   1. Successful condition  * Display perform payment transaction page. | | |
|
|
| Event | | Response |
| 1 | Member select confirm in sign up page. | * + - * Display make order UI. |
| 2 | Member select number of ticket for purchase. | * + - * Checking the amount of remaining ticket is more than ordering ticket.       * Display confirm button. |
| 3 | Member select confirm. | * + - * Display perform payment transaction page. |
| Extensions | | |
| 2 | Amount of remaining ticket is less than ordering ticket. | * Reject request * Display message “The remaining ticket is <amount of remaining ticket> which is not enough for your order, please re-select the number of ticket you want to purchase.” * Re-select required. |

|  |  |  |
| --- | --- | --- |
| **Use case: Perform payment transaction (Payment System)** | | |
|
| Overview: This case describes how the member perform payment transaction to complete sign up. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Member login required. 3. Member had make order successfully. | | |
|
| Post conditions:   1. Successful condition  * Member payment successfully. * Member sign up for activity successfully. | | |
|
|
| Event | | Response |
| 1 | Member select confirm in make order page. | * + - * Display payment UI. |
| 2 | Member select payment method. | * + - * Display text field for require insert payment information. |
| 3 | Member insert payment information. | - |
| 4 | Member select confirm. | * + - * Checking payment transaction.       * Payment transaction accepted.       * Send transaction into transaction database. |
| 5 | Member payment transaction successfully. | - |
| 6 | Member sign up for activity successfully. | - |
| Extensions | | |
| 4 | Invalidate payment information detected. | * Reject request * Display error message * Display message “Please re-enter the information to continue the payment.” |

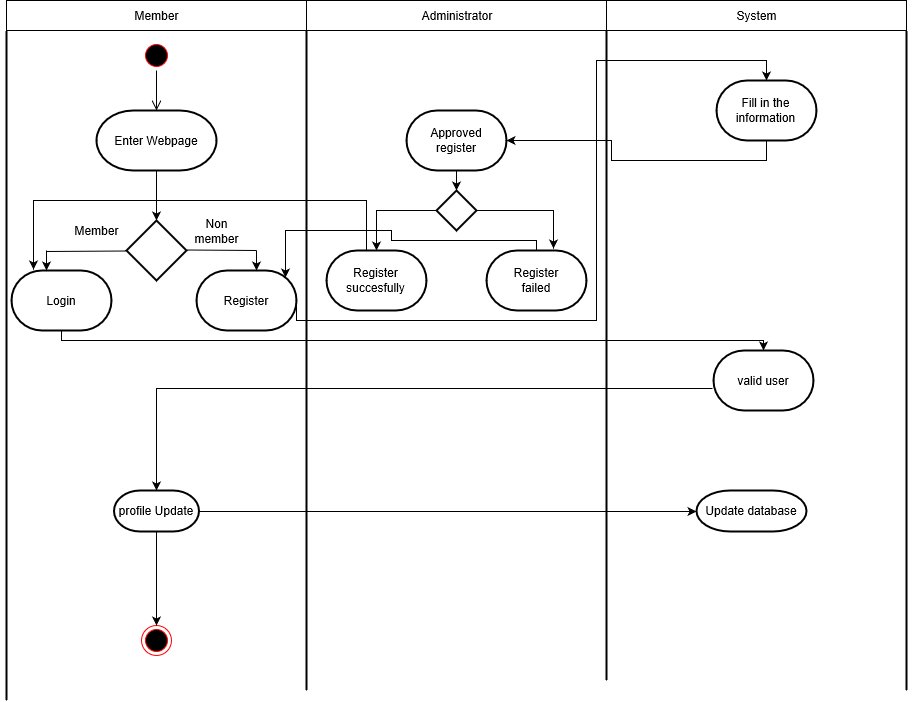
|  |  |  |
| --- | --- | --- |
| **Use case: Revise payment (Payment System)** | | |
|
| Overview: This case describes how the administrator revise the payment. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Administrator login required. | | |
|
| Post conditions:   1. Successful condition  * Order revised successfully. | | |
|
|
| Event | | Response |
| 1 | Administrator login to webpage. | * + - * Perform account validation.       * Display administrator page UI. |
| 2 | Administrator select payment system. | * + - * Display payment system UI. |
| 3 | Administrator select view sales order. | * + - * Receive data from transaction database.       * Display sales order list. |
| 4 | Administrator select an order. | * + - * Display order detail. |
| 5 | Administrator edit the sales order information. | - |
| 6 | Administrator select confirm | * + - * Perform details validation.       * Update sales order information into transaction database.       * Display message “Sales order revise successfully”. |
| 7 | Administrator revise the order successfully. | - |
| Extensions | | |
| 1 | Invalid account. | * + - * Display message “Incorrect user ID/Password, please enter correct user ID/Password.”       * Clear the password text field. |
| 6 | Validation failed | * + - * Reject request.       * Display error message. |

|  |  |  |
| --- | --- | --- |
| **Use case: Process member bill (Payment System)** | | |
|
| Overview: This case describes how the administrator process member bill. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Administrator login required. | | |
|
| Post conditions:   1. Successful condition  * Administrator process member bill successfully. | | |
|
|
| Event | | Response |
| 1 | Administrator login to webpage. | * + - * Perform account validation.       * Display administrator page UI. |
| 2 | Administrator select payment system. | * + - * Display payment system UI. |
| 3 | Administrator select view sales order. | * + - * Receive data from transaction database.       * Display sales order list. |
| 4 | Administrator select an order. | * + - * Display order detail. |
| 5 | Administrator select process member order. | * + - * Process member bill.       * Add transaction record.       * Insert into transaction database.       * Display message “Process member bill successfully.” |
| 6 | Administrator process member bill successfully. | - |
| Extensions | | |
| 1 | Invalid account. | * + - * Display message “Incorrect user ID/Password, please enter correct user ID/Password.”       * Clear the password text field. |

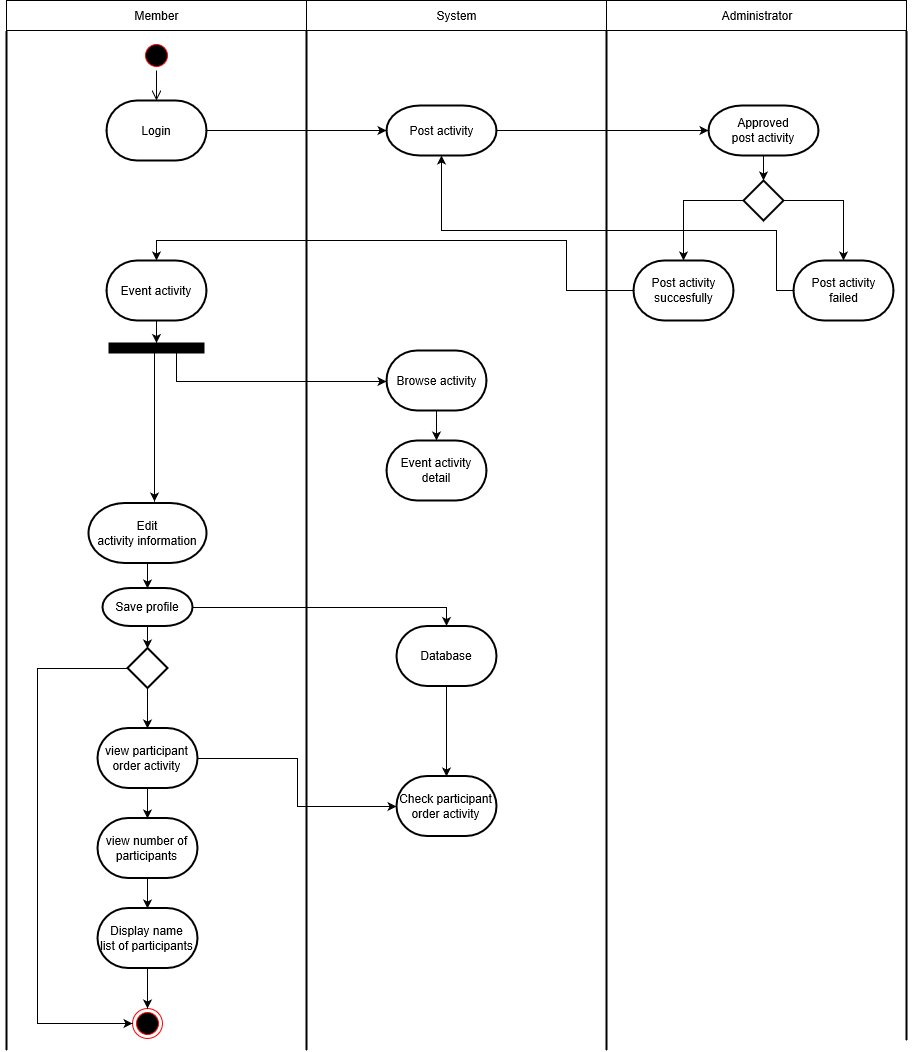
|  |  |  |
| --- | --- | --- |
| **Use case: Send Invoice and receipt (Payment System)** | | |
|
| Overview: This case describes how the invoice and recipe work. | | |
|
| Pre-conditions:   1. Network connection with server required. 2. Administrator had process member bill. | | |
|
| Post conditions:   1. Successful condition  * Reduce seat from ticket entries database had successfully. * Invoice and receipt has successfully send. | | |
|
|
| Event | | Response |
| 1 | Transaction record complete detected. | * Reduce seat from ticket entries database. * Receive bill from database. * Send Invoice to member. * Send receipt to member. |
| 2 | Reduce seat from ticket entries database successfully. | - |
| 3 | Invoice successfully send to user. | - |
| 4 | Receipt successfully send to user. | - |
| Extensions | | |
| - | - | - |

**6.0** [**Activity**](https://r.search.yahoo.com/_ylt=Awr9LvCacwZbE_QAuMYPQgx.;_ylu=X3oDMTByb2lvbXVuBGNvbG8DZ3ExBHBvcwMxBHZ0aWQDBHNlYwNzcg--/RV=2/RE=1527178266/RO=10/RU=https%3a%2f%2fen.wikipedia.org%2fwiki%2fActivity_diagram/RK=2/RS=DKVTDHKbDpfRuEevHar9A.wJHmo-) **Diagram**

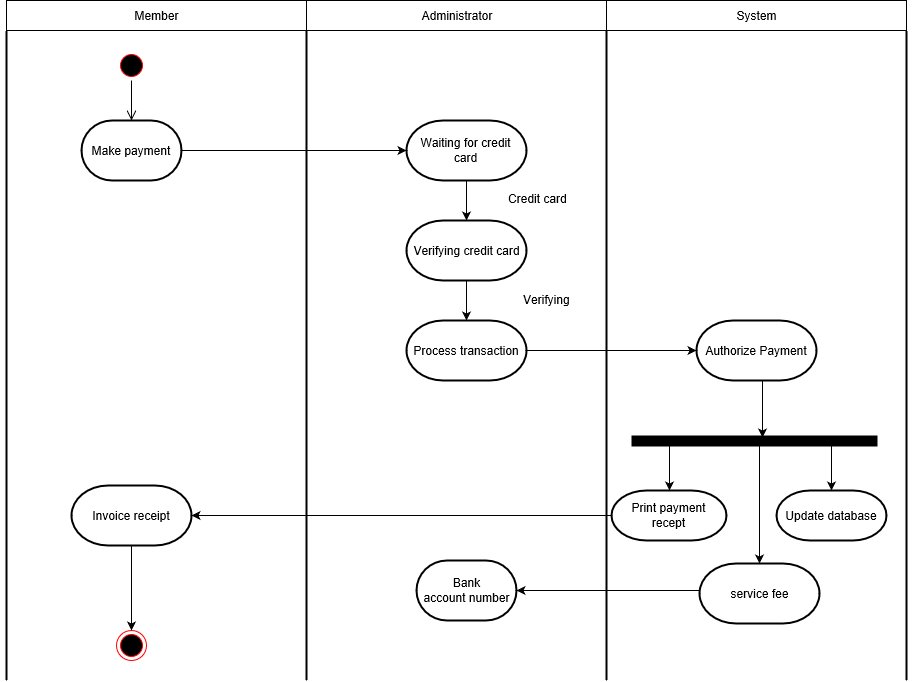
**6.1 Login System**



**6.2 Activity System**

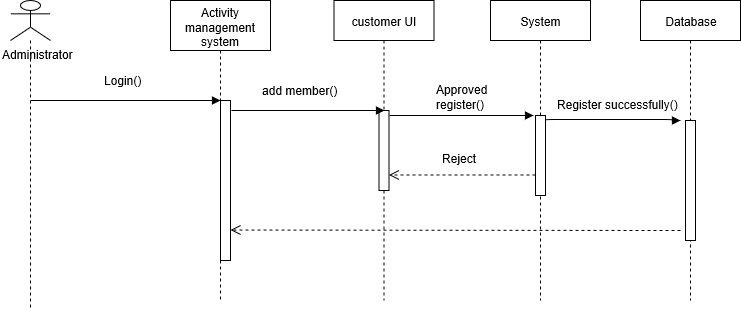
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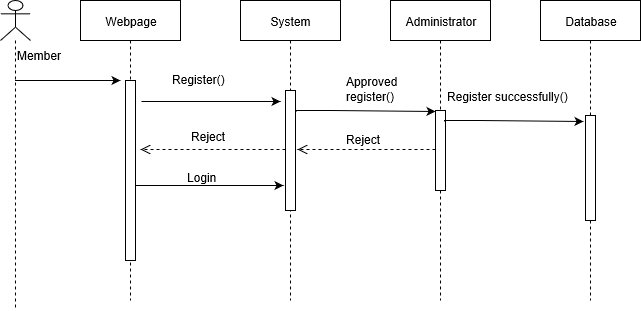
**6.3 Payment System**

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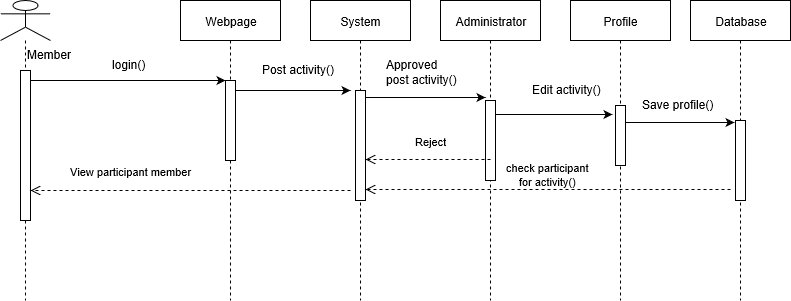
**7.0 Sequence diagram**

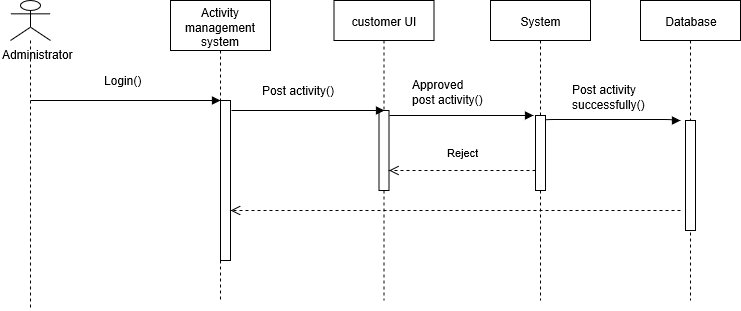
**7.1 Login System**

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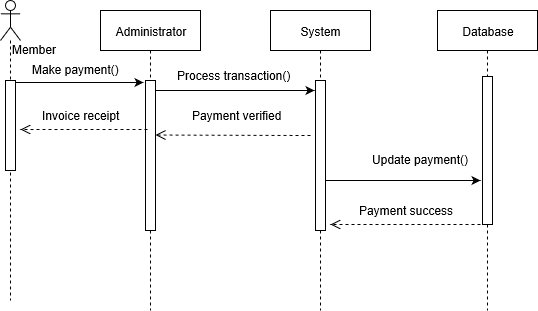
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**7.2 Activity System**

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**7.3 Payment System**

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