



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

Polytechnic University of the Philippines  
**COLLEGE OF COMPUTER AND INFORMATION SCIENCES**  
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## ***e-Ventory: Event Management System***

In partial fulfillment of the requirements for the courses:  
**COMP 2113 – ADVANCED PROGRAMMING**  
**COMP 4023 – DATABASE ADMINISTRATION**  
**INTE 3033 – DATABASE MANAGEMENT SYSTEMS 2**

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## Executive Summary

Nowadays, when technologies are helping humans in their daily lives. Some people don't use it to their advantage like some event planners who manually organize small or big events such as concerts, debuts, seminars and etc. which takes too much time to organize.

The proponents tend to make a system that will help the Event Planners to organize it automated and using social media especially Facebook to post the events online. The system will produce a QR Verification Code for the tickets to know if the tickets are legitimate or not.

Likewise, with the participants who don't like to stand and wait for hours in long lines in order to get a ticket in the event and booked it online. The proponents will make it through online to get a ticket for the event.



## Table of Contents

Title Page

Executive Summary

<b>PART I – PROJECT SPECIFICATIONS REPORT .....</b>	<b>4</b>
1.1. INTRODUCTION.....	4
1.2. STATEMENT OF THE PROBLEM.....	4
1.3. PROJECT OBJECTIVES .....	5
1.3.1. General Objectives .....	5
1.3.2. Specific Objectives .....	5
1.4. SCOPE AND LIMITATION .....	5
1.5. PROJECT ASSUMPTIONS.....	5
<b>PART II – DATABASE SPECIFICATIONS REPORT .....</b>	<b>6</b>
2.1. BUSINESS RULES.....	6
2.2. ENTITY-RELATIONSHIP DIAGRAM.....	7
2.3. NORMALIZED RELATIONS .....	9
2.4. DATA DICTIONARY .....	10
2.5. DATABASE DIAGRAM .....	14
<b>PART III – APPLICATION SPECIFICATIONS REPORT .....</b>	<b>15</b>
3.1. APPLICATION DESCRIPTION .....	15
3.2. PROSPECT USERS OF THE SYSTEM .....	15
3.3. FEATURES SPECIFICATION.....	15
3.4. APPLICATION SCREENSHOTS .....	19



## PART I – PROJECT SPECIFICATIONS REPORT

### 1.1. INTRODUCTION

Nowadays, Events are being held around the world. We do like go to events such as weddings, concerts, meetings, and the likes that will leave a mark on our memory and will be a treasure in the rest of our lives.

Some of the event planners manually do the planning process and promoting of events that results a much-needed time involved. Moreover, they didn't use the new technologies in their work like using Facebook in terms of posting event announcements. The tickets don't have QR verification codes that will tell if the tickets are legitimate.

On the other hand, sometimes the participants must register manually and nowadays people don't like to waste their time on manual processes and they like to do it easily to lessen the time and effort.

The proponents tend to make a system that can do the following: Create an event, announcements through Facebook, manage events registration, participant's information and payment that would make it convenient for them.

This system will help the event planners to easily organize events in a much shorter span of time and a much efficient way as possible.

### 1.2. STATEMENT OF THE PROBLEM

Organizer cannot handle the number of participants due to manual process of ticket verification and registration and the organizers manually announce the details of the events so that it becomes less efficient.

- The tickets don't have QR Verification code.
- The organizers can't recognize if the ticket is legitimate or not.



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### 1.3. PROJECT OBJECTIVES

#### 1.3.1. General Objectives

The organizers manually manage their events so we come up with a solution to help them easily manage their held events.

#### 1.3.2. Specific Objectives

Organizing events manually, especially big events is difficult and time-consuming. This system called e-Ventory will help them manage events easily and post it through Facebook, to produce a QR Verification Code for the tickets.

### 1.4. SCOPE AND LIMITATION

The system can add, update, delete, and search events. It can also post the details or announcements about the events on Facebook group and can produce a QR Code for the tickets and payment voucher. The system can't update the admin account information, printing of receipts and, multiple tickets functionality for each participant.

### 1.5. PROJECT ASSUMPTIONS

- *One time sign up of participants.*
- *Statistics about the events.*



## PART II – DATABASE SPECIFICATIONS REPORT

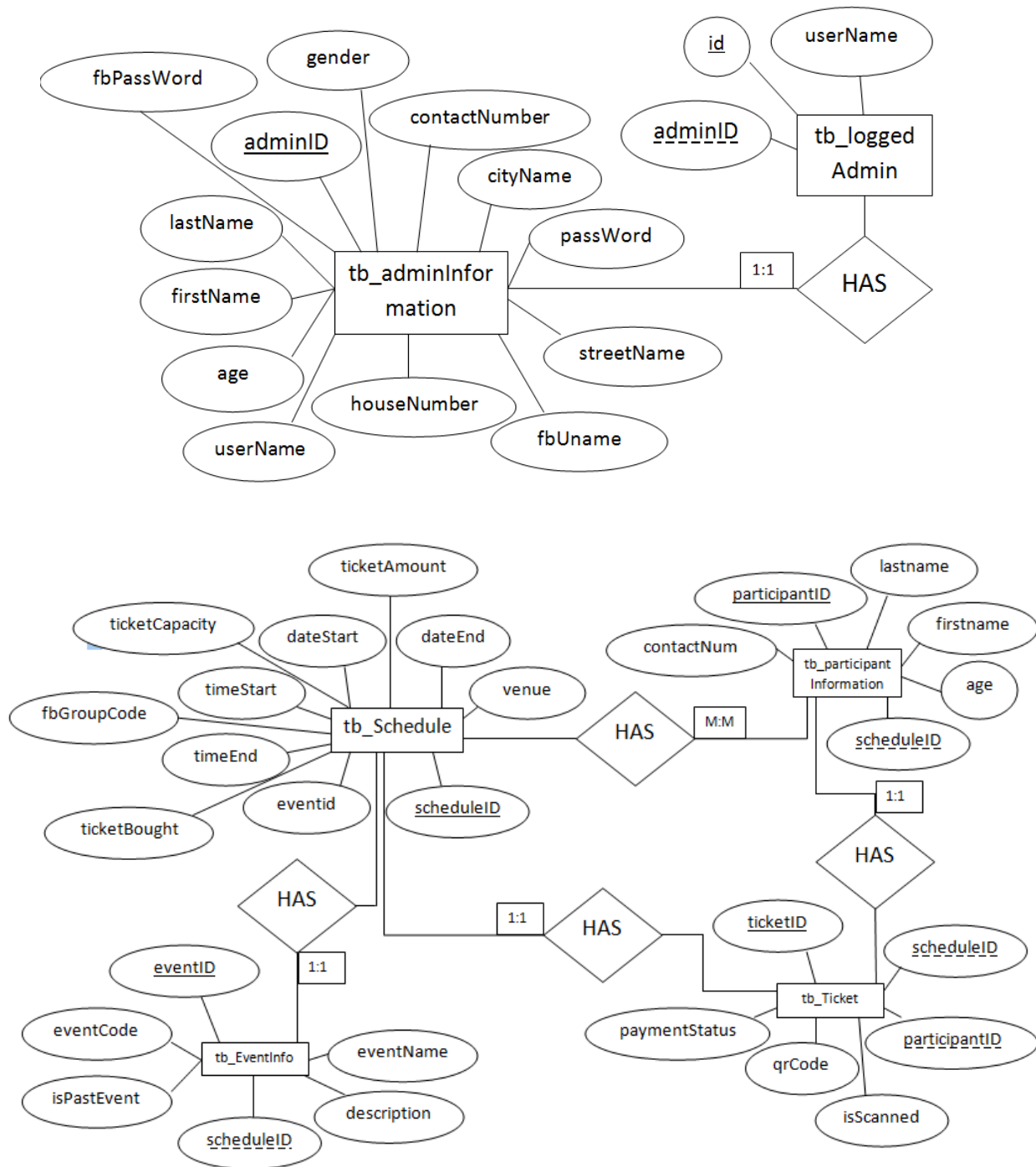
### 2.1. BUSINESS RULES

Rule ID	Business Rule
BR_001	EACH EVENT HAS LIMITED CAPACITY
BR_002	EVENTS CAN HAVE MANY SCHEDULE
BR_003	EACH EVENT HAS ONE VENUE
BR_004	EACH EVENT HAS TICKET
BR_005	EACH PARTICIPANT HAS INFORMATION
BR_006	PARTICIPANT HAS ADMIN
BR_007	EACH PARTICIPANT HAS PAYMENT STATUS
BR_008	ADMIN MUST HAVE A FB ACCOUNT
BR_009	EACH TICKET HAS EVENT'S SCHEDULE INFORMATION
BR_010	QR CODE CAN BE CLASSIFFY AS QR TICKET OR QR VOUCHER



## 2.2. ENTITY-RELATIONSHIP DIAGRAM

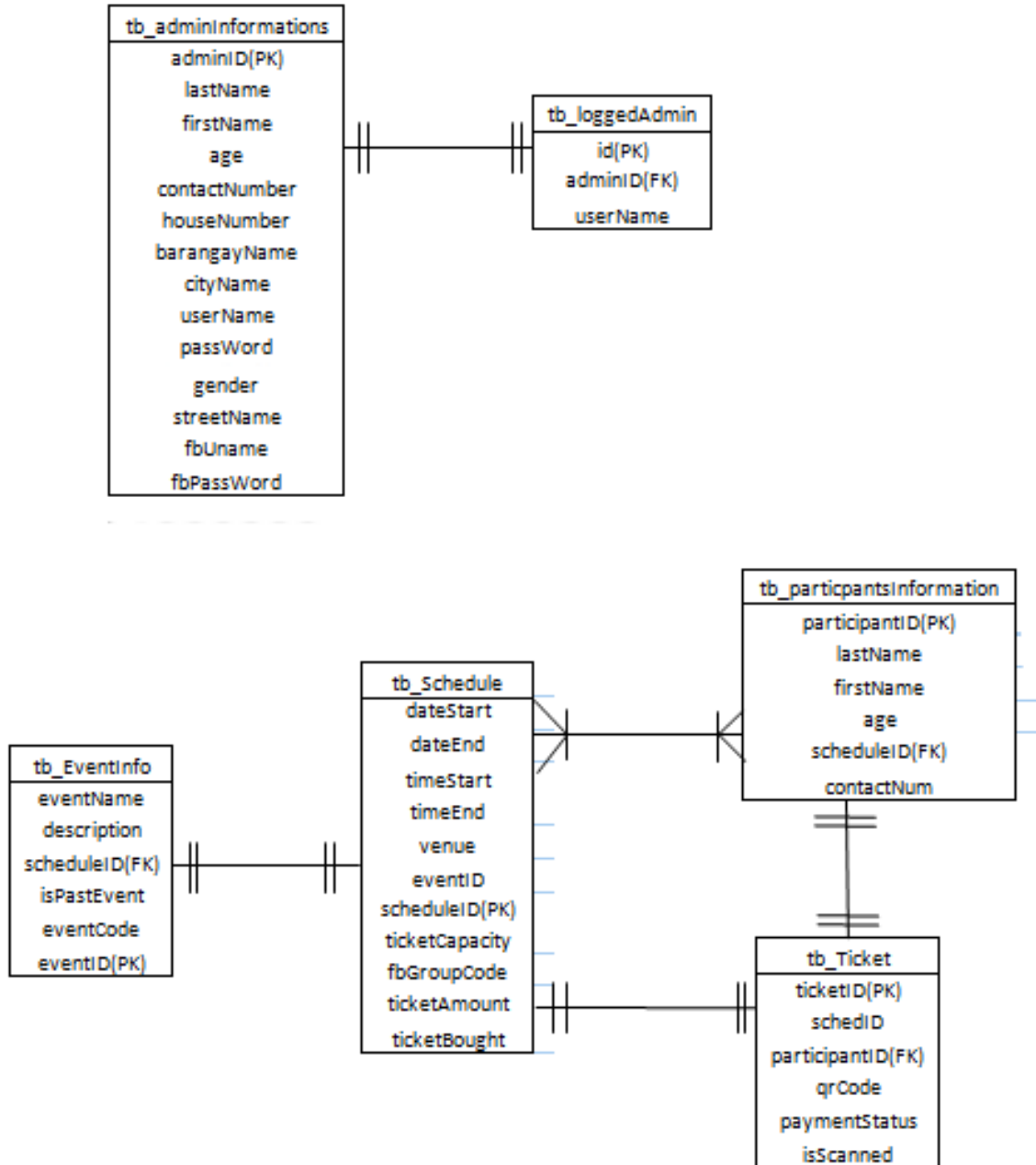
Chen's Notation





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### Crow's Foot



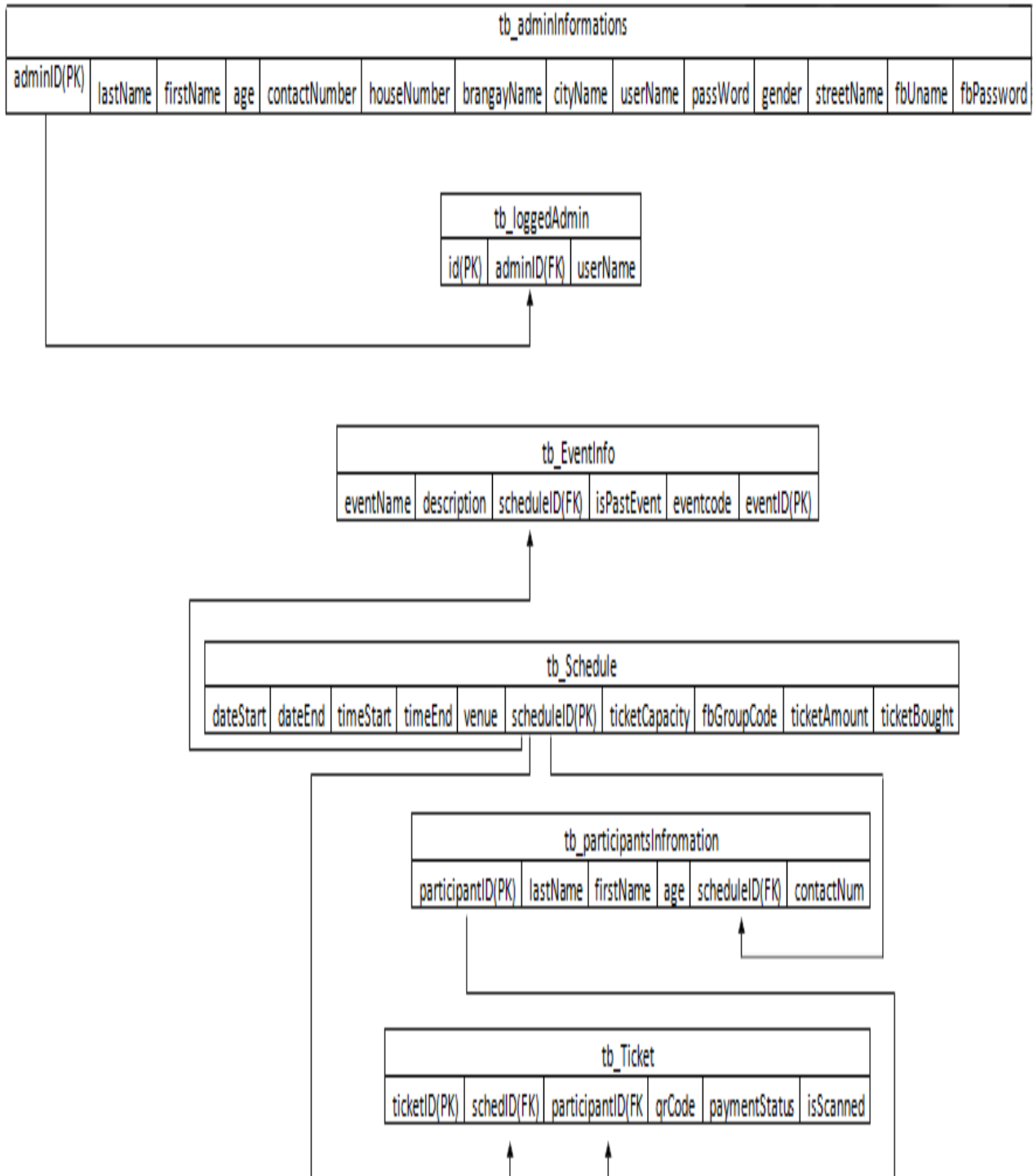




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### 2.3. NORMALIZED RELATIONS

#### 3<sup>rd</sup> Normal Form





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### 2.4. DATA DICTIONARY

TABLE NAME: tb_Schedule TABLE DESCRIPTION: Contains the schedules information of an event RELATED TABLE: tb_EventInfo								
Key	Field Name	Data Type	Length	Optional	Default Value	Field Validations	Description	Sample Data
PK	scheduleID	Integer		N	NONE	NONE	ID OF THE SCHEDULE OF AN EVENT	1
FK	eventID	Integer		N	NONE	NONE	ID OF AN EVENT	1
	dateStart	Date		N	NONE	NONE	STARTING DATE OF AN EVENT	'2017/01/10' ( 'yyyy/mm/dd' )
	dateEnd	Date		N	NONE	NONE	END DATE OF AN EVENT	'2017/01/11' ( 'yyyy/mm/dd' )
	timeStart	Time	7	N	NONE	NONE	STARTING TIME OF AN EVENT	10:00:00 24-hour format
	timeEnd	Time	7	N	NONE	NONE	END TIME OF AN EVENT	12:00:00 24-hour format
	locationAdd	Variable Character	50	N	NONE	NONE	LOCATION (ADDRESS) OF AN EVENT	Pasig
	venueName	Variable Character	50	N	NONE	NONE	SPECIFIC VENUE OF AN EVENT	Tanghalang Pasigueño
	ticketCapacity	Integer		N	NONE	NONE	HOLDS THE EVENTS' CAPACITY	500
	fbGroupCode	Variable Character	50	N	NONE	NONE	CONTAINS THE RECORDS OF FB GROUP CODES	23456



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<b>TABLE NAME:</b> tb_adminInformations <b>TABLE DESCRIPTION:</b> Contains the admin's information <b>RELATED TABLE:</b> tb_loggedAdmin, tb_systemLogs								
Key	Field Name	Data Type	Length	Optional	Default Value	Field Validations	Description	Sample Data
PK	adminID	Integer		N	NONE	NONE	ADMIN'S ID	1
	lastName	Variable Character	25	N	NONE	NONE	ADMIN'S LAST NAME	Monterde
	firstName	Variable Character	25	N	NONE	NONE	ADMIN'S FIRST NAME	Tj
	age	Character	3	N	NONE	NONE	ADMIN'S AGE	30
	contactNumber	Variable Character	15	N	NONE	NONE	ADMIN'S CONTACT NUMBER	09112345671
	houseNumber	Variable Character	10	N	NONE	NONE	ADMIN'S ADDRESS (HOUSE NUMBER)	500
	barangayName	Variable Character	25	N	NONE	NONE	ADMIN'S ADDRESS (BARANGAY)	Pasong Tamo
	cityName	Variable Character	25	N	NONE	NONE	ADMIN'S ADDRESS (CITY/TOWN)	Quezon City
	streetName	Variable Character	25	Yes	NONE	NONE	ADMIN'S ADDRESS (STREET NAME)	Janet
	userName	Variable Character	25	N	NONE	NONE	USER NAME OF ADMIN	Titus.John001
	passWord	Variable Character	25	N	NONE	NONE	PASSWORD OF ADMIN	Monterde
	gender	Character	1	N	NONE	'M/F'	ADMIN'S GENDER	M
	fbUname	Variable Character	25	N	NONE	NONE	FACEBOOK USERNAME OF THE ADMIN	Titus.John001@yahoo.com
	fbPassWord	Variable Character	25	N	NONE	NONE	FACEBOOK PASSWORD OF THE ADMIN	TjxKz

<b>TABLE NAME:</b> tb_LoggedAdmin <b>TABLE DESCRIPTION:</b> Contains records of admins who entered the system <b>RELATED TABLE:</b> tb_adminInformations								
Key	Field Name	Data Type	Length	Optional	Default Value	Field Validations	Description	Sample Data
PK	Id	Integer		N	NONE	NONE	UNIQUE KEY FOR tb_LoggedAdmin	1
FK	adminID	Integer		N	NONE	NONE	ADMIN'S ID	1
	userName	Variable Character	50	N	NONE	NONE	ADMIN'S USERNAME	Titus.John001



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TABLE NAME: tb_SystemLogs								
TABLE DESCRIPTION: Contains records of logs in the system								
RELATED TABLE: NONE								
Key	Field Name	Data Type	Length	Optional	Default Value	Field Validations	Description	Sample Data
PK	logID	Integer		N	NONE	NONE	UNIQUE KEY FOR tb_LoggedAdmin	1
FK	adminID	Integer		N	NONE	NONE	ADMIN'S ID	1
	logDescription	Variable Character	50	N	NONE	NONE		
	adminName	Variable Character	50	N	NONE	NONE	ADMIN'S USERNAME	Titus.John001
	timestamp	DateTime		N	NONE	NONE	TIME_STAMP OF EACH LOGS	'2017/09/20' 18:10:20 ('yyyy/mm/dd') & 24-hour format

TABLE NAME: tb_participantInformations								
TABLE DESCRIPTION: Contains the participants information								
RELATED TABLE: tb_Schedule								
Key	Field Name	Data Type	Length	Optional	Default Value	Field Validations	Description	Sample Data
PK	participantID	Integer		N	NONE	NONE	ID OF THE PARTICIPANTS	1
FK	scheduleID	Integer		N	NONE	NONE	ID OF THE SCHEULE OF AN EVENT	1
	firstName	Variable Character	30	N	NONE	NONE	PARTICIPANT'S FIRST NAME	Tj
	lastName	Variable Character	30	N	NONE	NONE	PATICIPANT'S LAST NAME	Monterde
	age	Character	3	N	NONE	NONE	PARTICIPANTS'S AGE	25
	contactNum	Variable Character	15	Y	NONE	NONE	CONTACT NUMBER OF THE PARTICIPANTS	09112233445



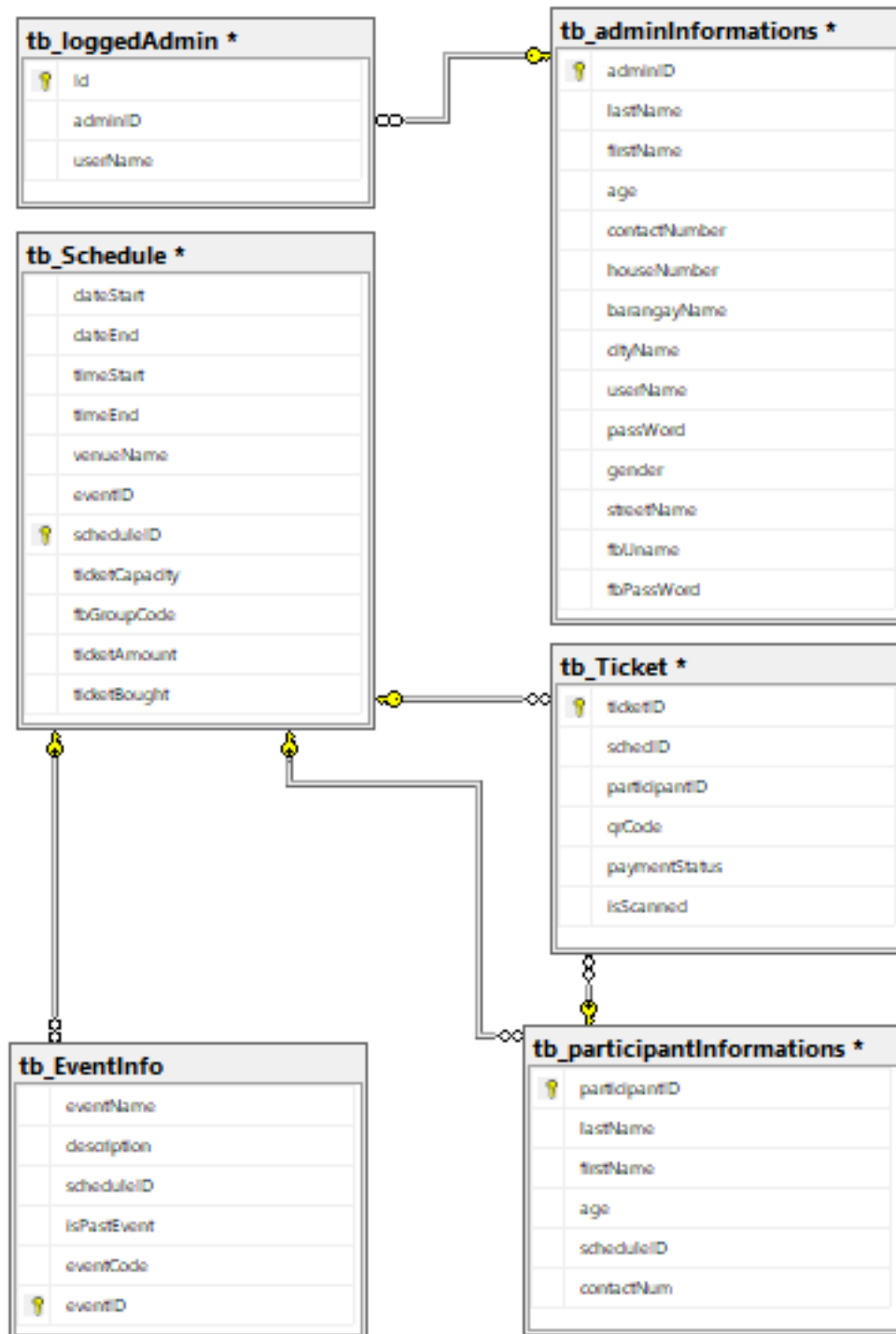
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TABLE NAME: tb_Ticket								
TABLE DESCRIPTION: Contains the information about the tickets								
RELATED TABLE: tb_participantInformations, tb_Schedule								
KEY	FIELD NAME	DATA TYPE	LENGTH	OPTIONAL	DEFAULT VALUE	FIELD VALIDATION	DESCRIPTION	SAMPLE DATA
PK	ticketID	Integer		N	NONE	NONE	ID OF THE TICKET	1
FK	schedID	Integer		N	NONE	NONE	SCHEDULE'S ID	1
FK	participantID	Integer		N	NONE	NONE	PARTICIPANT'S ID	1
	qrCode	Variable Character	15	N	NONE	NONE	QR CODE THAT YOU SEE IN THE TICKET	4726
	paymentStatus	Variable Character	6	N	NONE	'paid/unpaid'	PAYMENT STATUS, CHECKS IF THE PARTICIPANTS IS PAID OR UNPAID	PAID

TABLE NAME: tb_EventInfo								
TABLE DESCRIPTION: Contains the records of each events.								
RELATED TABLE: tb_Capacity, tb_Schedule								
KEY	FIELD NAME	DATA TYPE	LENGTH	OPTIONAL	DEFAULT VALUE	FIELD VALIDATION	DESCRIPTION	SAMPLE DATA
PK	eventID	Integer		N	NONE	NONE	UNIQUE IDENTIFIER OF EVENT RECORD	1
FK	scheduleID	Integer		N	NONE	NONE	UNIQUE IDENTIFIER THAT CONNECTS THE TB_CAPACITY, TB_SCHEDULE AND TB_EVENTINFO	1
	eventCode	Integer		N	NONE	NONE	ID FOR EVENTS HAVING THE SAME NAME	1
	eventName	Variable Character	50	N	NONE	NONE	NAME OF THE EVENT	SEMINAR
	description	Variable Character	150	N	NONE	NONE	DESCRIPTION OF THE EVENT	SEMINAR FOR FRESHMEN
	isPastEvent	Bit		N	0	0, 1	IDENTIFIER OF EVENTS(PAST OR CURRENT AND UPCOMING EVENTS)	0



## 2.5. DATABASE DIAGRAM





## PART III – APPLICATION SPECIFICATIONS REPORT

### 3.1. APPLICATION DESCRIPTION

The e-Ventory is a management system that will help organizers organize events automated and that will save time in managing an event. The said system will post the events and announcements through fb and will produce a QR Verification Code for the tickets to tell if the tickets are legitimate.

### 3.2. PROSPECT USERS OF THE SYSTEM

- Event Organizers who organize events such as debuts, weddings, concerts, meetings, seminars and etc.

### 3.3. FEATURES SPECIFICATION

Feature ID:	Feat-001
Feature Name:	Accounts
Business Rule ID:	BR_008
User Story:	
1.	<i>A user should be able to create accounts and log in to the system.</i>

Feature ID:	Feat-002
Feature Name:	Add event
Business Rule ID:	BR_003
User Story:	
1.	<i>A user should be able to add events.</i>



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<b>Feature ID:</b>	Feat-003
<b>Feature Name:</b>	Update event
<b>Business Rule ID:</b>	BR_003
<b>User Story:</b>	
1.	<i>A user should be able to update events.</i>

<b>Feature ID:</b>	Feat-004
<b>Feature Name:</b>	Delete event
<b>Business Rule ID:</b>	BR_003
<b>User Story:</b>	
1.	<i>A user should be able to delete events.</i>

<b>Feature ID:</b>	Feat-005
<b>Feature Name:</b>	Search event
<b>Business Rule ID:</b>	BR_001, BR_002, BR_003, BR_004
<b>User Story:</b>	
1.	<i>A user should be able to search events.</i>

<b>Feature ID:</b>	Feat-006
<b>Feature Name:</b>	Facebook group announcement
<b>Business Rule ID:</b>	BR_008
<b>User Story:</b>	
1.	<i>A user should be able to announce on Facebook about the details of events.</i>





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<b>Feature ID:</b>	Feat-007
<b>Feature Name:</b>	Registration of Participants
<b>Business Rule ID:</b>	BR_005, BR_006, BR_007
<b>User Story:</b>	
1.	<i>A user should be able to register participants.</i>

<b>Feature ID:</b>	Feat-008
<b>Feature Name:</b>	Ticket Payment
<b>Business Rule ID:</b>	BR_007
<b>User Story:</b>	
1.	<i>A user should be able to view the paid or unpaid participants.</i>

<b>Feature ID:</b>	Feat-009
<b>Feature Name:</b>	QR Code
<b>Business Rule ID:</b>	BR_009, BR_010
<b>User Story:</b>	
1.	<i>A user should be able to produce a QR Code for the tickets.</i>

<b>Feature ID:</b>	Feat-010
<b>Feature Name:</b>	Dashboard
<b>Business Rule ID:</b>	BR_008
<b>User Story:</b>	
1.	<i>A user should be able to see the number of events, upcoming events, number of registered admins and the number of participants.</i>



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<b>Feature ID:</b>	Feat-011
<b>Feature Name:</b>	System Logs
<b>Business Rule ID:</b>	BR_005, BR_006
<b>User Story:</b>	
1.	The user will be able to see the admins who create, update, delete an event.

<b>Feature ID:</b>	Feat-012
<b>Feature Name:</b>	System Logs
<b>Business Rule ID:</b>	BR_005
<b>User Story:</b>	
1.	The user will be able to see the participants who paid in a specific event.

<b>Feature ID:</b>	Feat-013
<b>Feature Name:</b>	Ticket Scanner
<b>Business Rule ID:</b>	BR_004
<b>User Story:</b>	
1.	The user will be able to scan the tickets.

<b>Feature ID:</b>	Feat-014
<b>Feature Name:</b>	Online Registration
<b>Business Rule ID:</b>	BR_007
<b>User Story:</b>	
1.	The participants will be able to register online.



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### 3.4. APPLICATION SCREENSHOTS

<b>Form Name:</b>	<b>Log-In Frame</b>
<b>Description:</b>	The user must enter the correct username and password to log in.
<b>Feature ID:</b>	Feat-001

Figure 1.0. Log In Frame

<b>Form Name:</b>	<b>Sign-up</b>
<b>Description:</b>	The user will be able to sign up.
<b>Feature ID:</b>	Feat-012

Figure 2.0. Sign-Up



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<b>Form Name:</b>	<b>Dashboard</b>
<b>Description:</b>	The user will see the number of events, upcoming events, number of registered admins and the number of participants.
<b>Feature ID:</b>	Feat-001



Figure 3.0. Dashboard

<b>Form Name:</b>	<b>Add Event</b>
<b>Description:</b>	The user will be able to add events.
<b>Feature ID:</b>	Feat-002

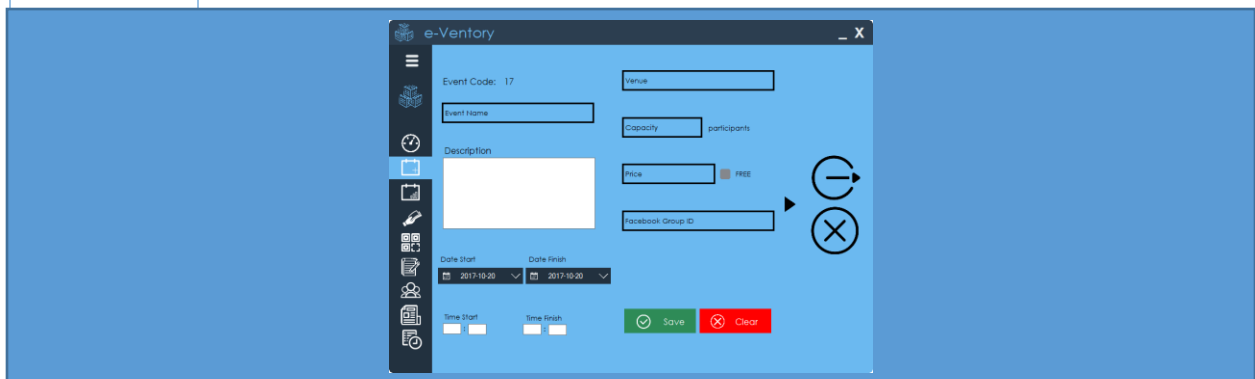


Figure 4.0. Add Event



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**Form Name:** Monitor Event

**Description:** The user will be able search the event, update and delete an event.

**Feature ID:** Feat-003, Feat-004, Feat-005



Figure 5.0. Monitor Event

**Form Name:** Announcement

**Description:** The user will be able post the announcements on Facebook.

**Feature ID:** Feat-006

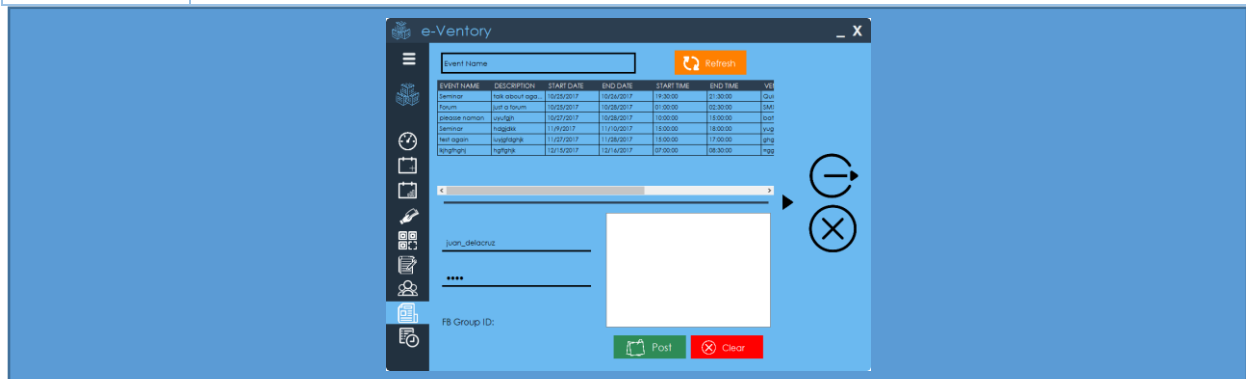


Figure 6.0. Announcement



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**Form Name:** Registration

**Description:** The user will be able register into an event.

**Feature ID:** Feat-007



Figure 7.0. Registration

**Form Name:** Payment

**Description:** The user will be able to scan the QR Code and make a payment transaction.

**Feature ID:** Feat-007, Feat-008



Figure 8.0. Payment



### Figure 9.0. Participant

Figure 10.0. Ticket Scanner



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<b>Form Name:</b>	<b>Ticket Scanner (if scanned already)</b>
<b>Description:</b>	The user will be able to see if the ticket if the tickets is scanned already.
<b>Feature ID:</b>	Feat-013



Figure 10.0. Ticket Scanner (if scanned already)

<b>Form Name:</b>	<b>System Logs</b>
<b>Description:</b>	The user will be able see the admins who logged in into the system.
<b>Feature ID:</b>	Feat-011

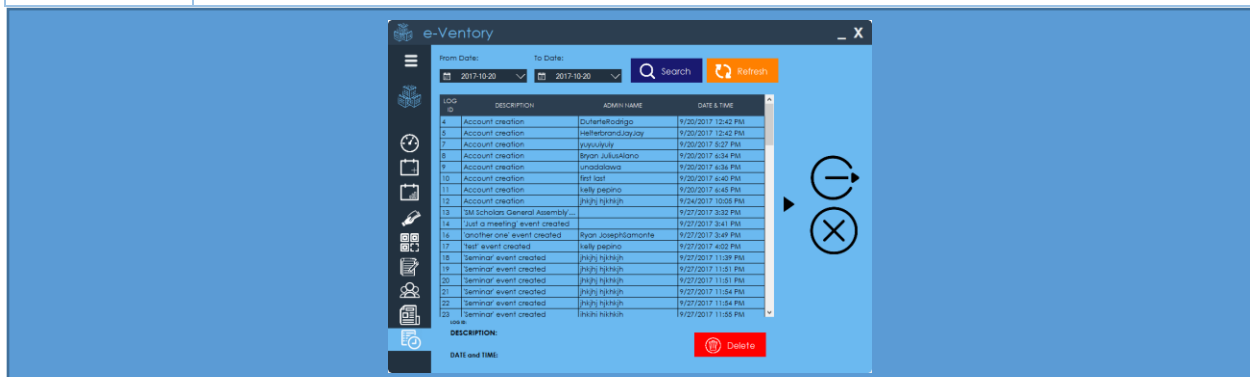


Figure 11.0. System Log





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**Form Name:** Home Tab Registration

**Description:** The participants will be able to register online.

**Feature ID:** Feat-014

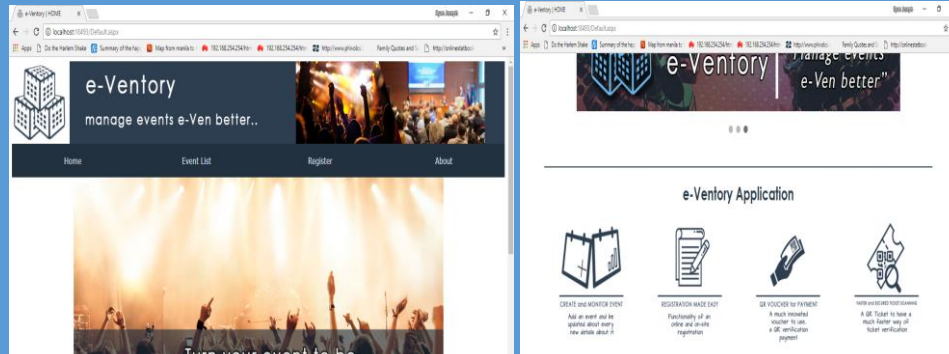


Figure 12.0. Home Tab Registration

**Form Name:** Event List Tab

**Description:** The user will be able to see the list of events.

**Feature ID:** Feat-014

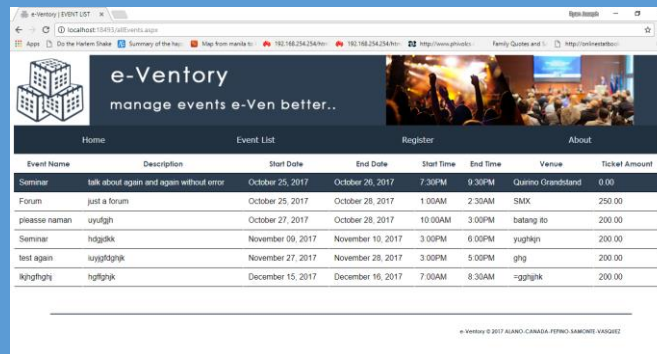


Figure 13.0. Event List Tab



## POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

<b>Form Name:</b>	<b>Registration Tab</b>
<b>Description:</b>	The participants will be able to register online.
<b>Feature ID:</b>	Feat-014

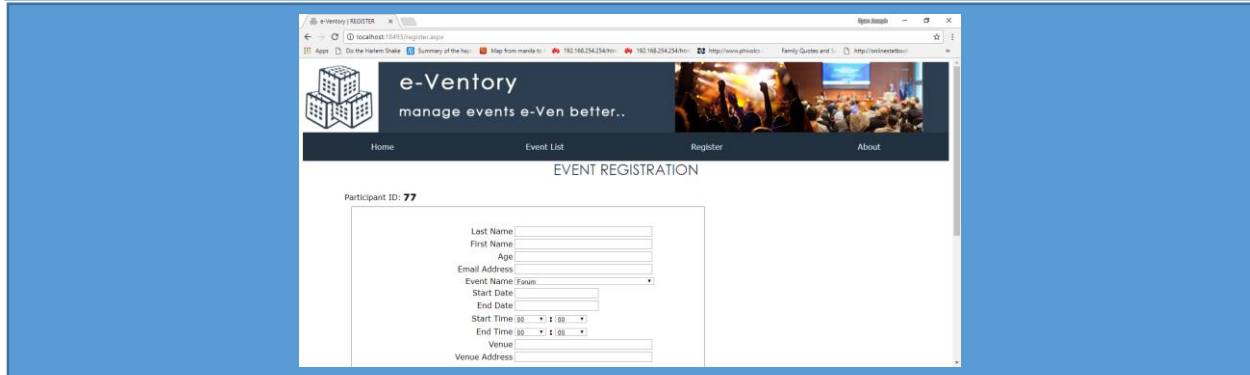


Figure 14.0. Event List Tab

<b>Form Name:</b>	<b>About Tab</b>
<b>Description:</b>	The participants will be able to see the description of the system and the proponents.
<b>Feature ID:</b>	Feat-014



Figure 14.0. Event List Tab