

## Event Management System for UTM Technology Entrepreneurship Centre

MOHAMMAD ZHARIF BIN OTHMAN<sup>1</sup>, MOHD ZAIDI BIN ABD ROZAN\*<sup>2</sup>

<sup>1,2</sup>Department of Information System, Faculty of Computing, Universiti Teknologi Malaysia,  
81310 Johor Bahru, Johor, Malaysia

<sup>2</sup>UTM Technology Entrepreneurship Centre (UTMTEC),  
Universiti Teknologi Malaysia, 81310 Johor Bharu, Johor,  
Malaysia zharifothman92@gmail.com / mdzaidi@utm.my

### Abstract

*UTM Technology Entrepreneurship Centre (UTMTEC) is an intensive event organizer. Currently, UTMTEC is utilizing Eventbrite, an open source platform. However, the requirements and scopes are not matching to UTMTEC needs. In addition, there is no proper database to store all information in an event that causes UTMTEC staff facing difficulties to produce relevant reports. Therefore, the Event Management System for UTMTEC is developed and this system is used to help UTMTEC staff to organize their events. This system was developed as a web application using Bootstrap framework as frontend and PHP as a backend framework. All participant records are stored in phpMyAdmin database, which allows the system user to retrieve data to generate reports related to UTMTEC reporting needs. In conclusion, this system can help participants to register any UTMTEC event more systematically, assist management in UTMTEC event and produce required reports as needed.*

**Keywords:** Event, Management System, UTMTEC

### 1.0 Introduction

Digital systems have been widely used to manage a variety of things. By using the digital system, many tasks can be done regularly and accurately. In addition, the use of digital systems can also make daily life easier (Vladimir Zwass, 2011). In managing an event, the use of digital systems should be implemented by an organization. With an event handling system, activities would be more systematic and organized. UTMTEC as event organizers should have a system that is more flexible to their event requirement ([www.utm.my/utmtec](http://www.utm.my/utmtec)). With the existence of this system, all the documentation for a program can be computerized and stored in a single database. The data from the system can also be pulled and released to top management as their report or reference. In fact, UTMTEC also need an application with specific processes that may automate some processes such as the attendance registration of participants.

The aim of this paper is to achieve several objectives, firstly is to study the deficiencies and problems of the current system for event management by UTMTEC, secondly is to develop an information management system to facilitate the information storage for all activities during the event and lastly to evaluate the developed system whether it meet the user's requirement. Therefore, the significant of this Event Management for UTMTEC project is huge in order to assist UTMTEC in their event management activities.

## 2.0 Methodology

Prior to the development of this system, a comparison analysis is done to get better insight on the different type of systems available in the market. Table 1.0 shows the comparison of current utilized system (Eventbrite), existing system (Peatix) and proposed system (EMS for UTMTEC) in order to get clearer view of the similarities and differences between these systems.

**Table 1** Comparison among systems

No	Functions/Features	Eventbrite	Peatix	EMS for UTMTEC
1	Manage User	Limited to attendee	Limited to attendee	All access
2	Manage Event	All access	All access	All access
3	Manage Registration	Registration only	Registration only	Contain pre-registration
4	Send email	C	C	/
5	Produce related report	/	/	C
6	View history	C	C	C
7	Interface	Crowd but interactive	Simple and interactive	Simple
8	Mobile Application	C	C	/

The development of this Event Management System for UTMTEC is employing Rational Unified Process (RUP) methodology (Rational Software, 1998). This methodology practices Unified Modelling Language (UML) as a two-dimensional model to explain all functions that are available in this system (Kenneth C. Laudon, and Jane P. Laudon, 2004).

## 3.0 Result

Here are some of the results obtained from the requirement and analysis from secondary and primary information.

### 3.1 Use Case Diagram

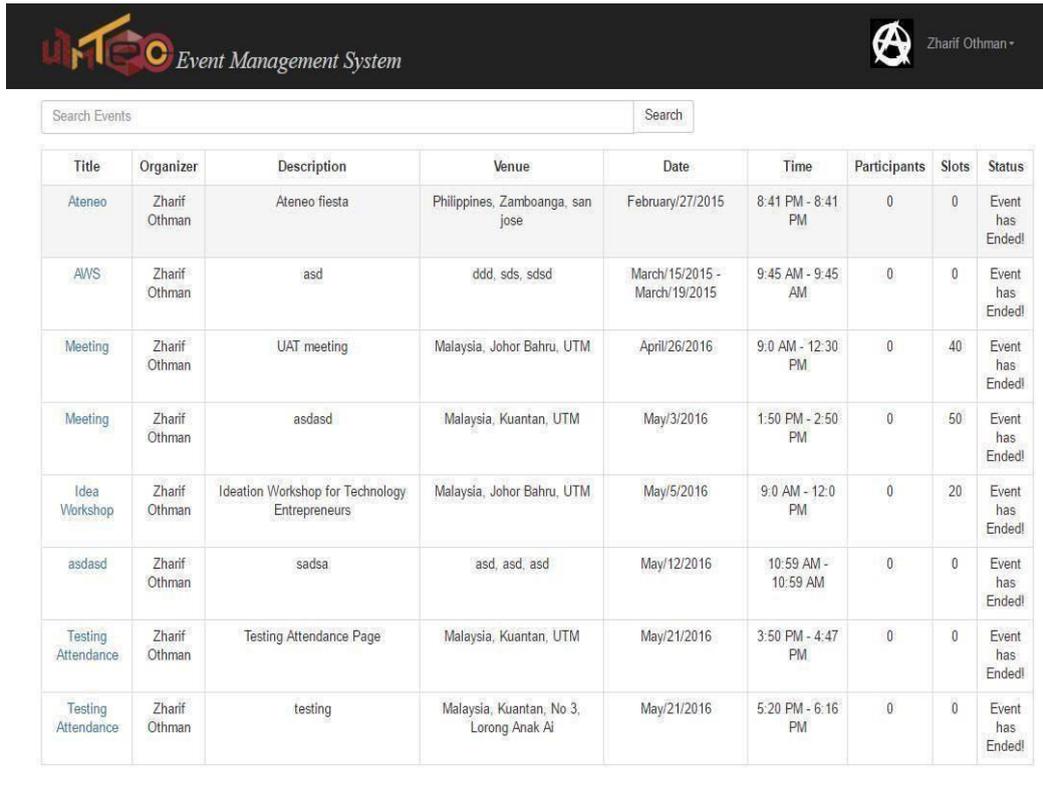
This system is a web application. This allows all users to easily access to the system at anywhere and anytime. Figure 1.0 is the Use Case diagram of Event Management System for UTMTEC.



**Figure 1.0** Use case diagram of Event Management System for UTMTEC

### 3.2 User Interface Design

User interface design is an important element between user and system. User interface should be user friendly so that user can comfortably understand how to operate the system. Figure 2.0 shows interface for Admin Home page for this system.



Title	Organizer	Description	Venue	Date	Time	Participants	Slots	Status
Ateneo	Zharif Othman	Ateneo fiesta	Philippines, Zamboanga, san jose	February/27/2015	8:41 PM - 8:41 PM	0	0	Event has Ended!
AWS	Zharif Othman	asd	ddd, sds, sdsd	March/15/2015 - March/19/2015	9:45 AM - 9:45 AM	0	0	Event has Ended!
Meeting	Zharif Othman	UAT meeting	Malaysia, Johor Bahru, UTM	April/26/2016	9:0 AM - 12:30 PM	0	40	Event has Ended!
Meeting	Zharif Othman	asdasd	Malaysia, Kuantan, UTM	May/3/2016	1:50 PM - 2:50 PM	0	50	Event has Ended!
Idea Workshop	Zharif Othman	Ideation Workshop for Technology Entrepreneurs	Malaysia, Johor Bahru, UTM	May/5/2016	9:0 AM - 12:0 PM	0	20	Event has Ended!
asdasd	Zharif Othman	sadsa	asd, asd, asd	May/12/2016	10:59 AM - 10:59 AM	0	0	Event has Ended!
Testing Attendance	Zharif Othman	Testing Attendance Page	Malaysia, Kuantan, UTM	May/21/2016	3:50 PM - 4:47 PM	0	0	Event has Ended!
Testing Attendance	Zharif Othman	testing	Malaysia, Kuantan, No 3, Lorong Anak Ai	May/21/2016	5:20 PM - 6:16 PM	0	0	Event has Ended!

**Figure 2.0** Interface for Admin Home page for this system

### 4.0 Discussion

Here, we will discuss about the challenges faced during system development and the achievement of this project. In addition, future improvement of the system will be included in this section.

The main aim of this project is to achieve several objectives; first objective of this project was to study the deficiencies and problems of the current system for activity management and budget allocation. Analysis of current system has been done through primary and secondary information. Second objective of the project was to develop an information management system to facilitate the information storage for all activities during the event. This system aims to meet the main requirements need to organize an event. The final objective was to test the developed system whether it has met the user requirements. To ensure the system work well and user requirement, several testing methods were carried out. User acceptance test, white box testing and black box testing were carried in this project.

For Event Management System for UTMTEC, there are some improvements that can be done for the system in the future as below:

- i. Add module that support payment gateway and automated participant approval in this system.
- ii. Improve the ability of user interface and user experience for this system.
- iii. Develop a hybrid mobile app which able to use in Android and iOS mobile phone.

## 5.0 Conclusion

This project has successfully developed an Event Management System for UTMTEC. This is a web-application system that helps UTMTEC in event management especially in event registration, user control, attendance management and several reporting. It is expected that this system can improve the efficiency of event management by UTMTEC in future. This project completed in two semesters. If necessary, future works can be carried out to enhance the efficiency of this system.

## References

- Kenneth C. Laudon, and Jane P. Laudon (2004). Management Information Systems. Eighth Edition. New Jersey: Pearson Educational International.
- Rational Software (1998). Best Practices for Software. Retrieved on 28 November 2015 from [https://www.ibm.com/developerworks/rational/library/content/03July/1000/1251/1251\\_b\\_estpractices\\_TP026B.pdf](https://www.ibm.com/developerworks/rational/library/content/03July/1000/1251/1251_b_estpractices_TP026B.pdf)
- UTM Technology Entrepreneurship Centre (UTMTEC). Retrieved on 1 December 2015 from <http://www.utm.my/utmtec/about-utmtec/>
- Vladimir Zwass. (2011). Information System. Retrieved on 26 November 2015 from <http://global.britannica.com/topic/information-system#toc218047>
- Siti Aisyah Saat (2013, December 2). Solid waste management in Malaysia and Ecological Modernization Theory Perspective. Journal of Sustainability and Management, 8, pp. 268-275.
- Wong, CK. (2013). Top 10 marketplaces to sell online in Malaysia. From <http://www.ecommercemilo.com/2014/11/top-10-marketplaces-to-sell-online-malaysia.html#.VXQFnc8irIU>