

FACULTY OF COMPUTER SYSTEMS

& SOFTWARE ENGINEERING

Web Application Development | BCN2203 Sem\_1 17/18

MINI PROJECT

RunMASTER online system

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# INTRODUCTION

Annually, more than 800 marathons are organized worldwide. Some of these belong to the Association of International Marathons and Distance Races (AIMS) which has grown since its foundation in 1982 to embrace over 300 member events in 83 countries and territories. The marathons of Berlin, Boston, Chicago, London, New York City and Tokyo form the biennial World Marathon Majors series, awarding $500,000 annually to the best overall male and female performers in the series (Wikipedia, 2017).

Now even in Malaysia there is an abundant of marathon events being held. The coming of events lead to the need of a system, so, our team have initiated a website for marathon management which is named the “**Marvel Run**”. Minimum requirements of a managing system such as adding a data into a database, as well as being able to delete or update a data is covered by this system. However, the main catch is to be easier than systems that are normally used to handle such events.

# PROBLEM STATEMENT

The crucial points in making a successful is attendee satisfaction. The goal is to host a fun meeting and create a positive experience for attendees, success lies in how much they enjoy the event (2017 Marriott International, 2017). This is depending on how smoothly the organizers can manage the system. If such big events are done only by paper documents and signature forms a major havoc may occur.

Therefore, what is needed is to create a system that can manage participant data without errors and decrease the usage of time needed for recruitment significantly.

# OBJECTVES

For the time being this system should be able to accomplish the following:

* The basics of a managing system, which are add, update, delete participant data.
* Provide a different session for admins and participants for security purposes.
* By utilizing web service components, configuration, securing and deployment in web application to create an improved system.
* Achieve minimal confusion between the managing party and participants by creating a user-friendly environment.
* Acquire minimal data entry errors by applying proper validations.
* Attract participants and adequately inform them about the event by the first page.

# SCOPE

This system will only be handling variables in these parameters:

* Participant entry is only limited to 1 per identification card number.
* After, registering only the participant will be able to access event payments.
* After, registering only the participant will be able to able to notify admins that they withdraw from the event.
* Login session is required to access privileges such as managing the participant and package payment data.
* Admins can only be registered under the admin page.
* This system can only run in machines that have C# language.
* This system is can only run in local servers for the time being.

# SYSTEM DESCRIPTION

This system will be further broken down to every page explanation.

## LANDING\_PAGE

Figure 1 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| To enable admins to key in username and password that it will retrieve from the database.  To enable participants to go to register page.  To enable registered participants to enter their IC numbers to view their registered information.  The page is mainly to inform the participant about the run while serving the above modules. |

## PARTICIPANT\_REGISTER

Figure 2 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| This page uses participant master page.  The usage of proper web controls and suitable labels to guide the participant on entering the required data.  Utilizing the usage of validations for better experience in data entry. |

## PARTICIPANT\_VIEW

Figure 3 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| This page uses participant master page.  Display registered information of the users.  Display whether the user is already picked a package or not, and whether the package is payed or not.  Able to redirect the unpaid users to package page. |

## PARTICIPANT\_PACKAGE

Figure 4 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| This page uses participant master page.  The usage of proper web controls and suitable labels to guide the participant on entering the required data for the intended package.  Utilizing the usage of validations for better experience in data entry.  Calculate total of package price.  Acquire discount for some combination of choices.  Redirects to view participant. |

## ADMIN\_MAIN

Figure 5 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| Use the master page for admin.  Able to add a new fellow admin.  Able to edit current admin name.  Displays admin name according to database. |

## ADMIN\_INVOICES

Figure 6 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| Use the master page for admin.  Able to view all information on invoice of every paid participant’s package according to database |

## ADMIN\_ALL\_PARTICPANT

Figure 7 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| Use the master page for admin.  Able to view all information on all the participants.  Able to delete data on participant.  Able to sort the following data.  Able to update the following data. |

## ADMIN\_PAID\_PARTICIPANT

Figure 8 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| Use the master page for admin.  Able to view all information on all the participants that payed.  Able to delete data on participant.  Able to sort the following data.  Able to update the following data.  This page is mainly a filter page. |

## ADMIN\_NON\_PAID\_PARTICIPANT

Figure 9 is a screen shot for the stated webpage.

|  |
| --- |
| Related Code/ Configuration |
|  |
| Description |
| Use the master page for admin.  Able to view all information on all the participants that did not payed yet.  Able to delete data on participant.  Able to sort the following data.  Able to update the following data.  This page is mainly a filter page. |

# CONCLUSION

This project is made through varies meetings and hard driven discussions to create a system that would reach expectations of the lecturer and be subpar to systems that exist nowadays.

In this project we also discovered new cases and problems that could occur in creating this system in the C# language and Visual Studio medium. Steadily solving the problems together, we achieved new sense of problem solving skills and team work. Working in a team prove different than innovating a project alone which both have its pros and cons. We also were able to explore and manipulate web service components, configuration, securing and deployment in web application through this project. Last but not least, come with variety of solutions using C# and visual basic through exploration and also guidance that our lecturer provided.

Being able to master the usage of web development through C# was a challenging task. Not to mention being able to create a system through a few scratches of ideas. However, we don’t intend to leave this system half way through, but in hopes, we also see that in the future we could expand this system to be centralized with other bigger systems.

# References

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