

CO-CURRICULUM MANAGEMENT SYSTEM

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## DECLARATION

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CO-CURRICULUM MANAGEMENT SYSTEM

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SUPERVISOR: \_\_\_\_\_ Date: \_\_\_\_\_

(YAHYA BIN IBRAHIM)

## DEDICATION

Specially dedicated this report to my beloved parents, my supervisor, Mr. Yahya Bin Ibrahim and all my course mates for the help. I wish to thank you'll again for the invaluable support and guidance given throughout the completion of my Final Year Project.

## ACKNOWLEDGEMENTS

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## **ABSTRACT**

Co-curriculum Management System has been developed using Java Server Pages and PL/SQL as a programming language and a graphical user interface as well as using the Oracle 11g database. The system is developed to facilitate the work of teachers in providing student's marks, activity and report in co-curricular activities. The system allows teachers keep records of student co-curricular activities with ease and marks will be calculated automatically. Teachers can also record all meetings held and taking attendance through this system. The system is also able to produce an annual report of student's co-curricular and also produce certificates to students.

## ABSTRAK

Sistem Pengurusan Kokurikulum telah dibangunkan dengan menggunakan Java Server Pages dan PL / SQL sebagai bahasa pengaturcaraan dan antara muka pengguna grafik serta menggunakan pangkalan data Oracle 11g. Sistem ini dibangunkan untuk memudahkan kerja-kerja guru dalam menyediakan markah pelajar, aktiviti dan laporan dalam aktiviti ko-kurikulum. Sistem ini membolehkan guru menyimpan rekod aktiviti ko-kurikulum pelajar dengan mudah dan markah akan dikira secara automatik. Guru juga boleh merekod semua perjumpaan yang diadakan dan mengambil kehadiran melalui sistem ini. Sistem ini juga mampu menghasilkan suatu laporan tahunan pelajar ko-kurikulum dan juga mengeluarkan sijil kepada pelajar.

## TABLE OF CONTENTS

DECLARATION .....	iii
DEDICATION .....	iv
ACKNOWLEDGEMENTS .....	v
ABSTRACT .....	vi
ABSTRAK .....	vii
TABLE OF CONTENTS .....	viii
LIST OF FIGURE .....	xi
LIST OF TABLE .....	xii
1 INTRODUCTION .....	1
1.1 Project Background .....	1
1.2 Problem Statement .....	3
1.3 Objective .....	4
1.4 Scope .....	5
1.5 Conclusion.....	5
2 ANALYSIS.....	6
2.1 Introduction .....	6
2.2 Manual System (Report Book Co-Curriculum) .....	7
2.3 Work Process Manual System.....	10
2.4 Existing Systems (PPAKS) .....	12
2.5 Design (PPAKS).....	15



2.5.1	The Entity Relationship Diagram (PPAKS) .....	15
2.5.2	Example Data(PPAKS).....	16
2.6	Conclusion.....	18
3	DESIGN.....	19
3.1	Introduction .....	19
3.2	Context Diagram(CMS) .....	20
3.3	Data Flow Diagram (DFD Level 0).....	21
3.4	Database Design (CMS).....	22
3.4.1	Conceptual Database Design .....	23
3.4.2	Logical Database Design.....	30
3.4.3	Physical Database Design .....	31
3.5	Conclusion.....	36
4	IMPLEMENTATION.....	37
4.1	Introduction .....	37
4.2	Status of Implementation.....	37
4.2.1	Meeting Co-Curriculum and Student Attendance.....	38
4.2.2	Student Position .....	41
4.2.3	Students Involvement.....	45
4.2.4	Students Achievement.....	48
4.2.5	Reports .....	51
4.3	Conclusion.....	62
5	TESTING.....	63
5.1	Introduction .....	63
5.2	White Box Testing.....	63
5.2.1	Calculate Attendance Mark.....	64
5.2.2	Calculate Involvement Mark.....	65
5.3	Black box Testing.....	66
5.3.1	Interface Meeting .....	67
5.3.2	Interface Total Marks .....	68
5.4	Conclusion.....	69

6	CONCLUSION.....	70
6.1	Observation on Weakness and Strength.....	70
6.1.1	Strength of the Systems.....	70
6.1.2	Weaknesses of the Systems.....	71
6.2	Recommendations for Improvement.....	71
6.3	Contribution.....	72
6.4	Conclusion.....	72

## LIST OF FIGURE

Figure 1 Manually co-curricular attendance records. ....	7
Figure 2 Manually record of involvement and achievement. ....	8
Figure 3 Manually summary of the annual co-curricular evaluations. ....	9
Figure 4 Manual process flow to calculate total co-curricular marks for each units of co-curricular .....	10
Figure 5 Manual process flow to calculate total average mark of co-curricular.....	11
Figure 6 Interface of PPAKS to key in co-curricular marks.....	12
Figure 7 Final evaluation 10% of co-curricular marks. ....	14
Figure 8 ERD of PPAKS .....	15
Figure 9 Report for co-curricular marks by PPAKS.....	17
Figure 10 Context Diagram.....	20
Figure 11 DFD Level 0 .....	21
Figure 12 Full ERD of co-curriculum management system .....	30
Figure 13 Flow chart to record meeting and take attendance .....	38
Figure 14 Interface Meeting.....	39
Figure 15 Interface Attendance.....	40
Figure 16 Flow chart to insert student position.....	41
Figure 17 Interface position .....	42
Figure 18 Flow chart to insert student involvement.....	45
Figure 19 Flow chart to insert achievement.....	48
Figure 20 Interface Report Marks .....	51
Figure 21 Report in PDF.....	52
Figure 22 Interface Total Marks.....	55
Figure 23 Report Total Mark In PDF.....	56

## LIST OF TABLE

Table 1 Example data of BU_mark table.....	16
Table 2 Example data of KP_mark table .....	16
Table 3 Example data of SP_mark table .....	16
Table 4 Example data of Final_mark table .....	17
Table 5 Data Dictionary For Table Koku_Type .....	23
Table 6 Data Dictionary For Table Koku .....	23
Table 7 Data Dictionary For Table Teacher_Koku.....	24
Table 8 Data Dictionary For Table Student_Koku .....	24
Table 9 Data Dictionary For Table Stage .....	25
Table 10 Data Dictionary For Table Involvement .....	25
Table 11 Data Dictionary For Table SK_Involvement.....	26
Table 12 Data Dictionary For Table Achievement .....	26
Table 13 Data Dictionary For Table SK_Achievement.....	27
Table 14 Data Dictionary For Table Position .....	27
Table 15 Data Dictionary For Table SK_Position .....	28
Table 16 Data Dictionary For Table Meeting.....	28
Table 17 Data Dictionary For Table Koku_Attendance .....	29
Table 18 Data Dictionary For Table Institution_Koku.....	29
Table 19 Table Stage.....	31
Table 20 Table Achievement .....	31
Table 21 Table Institution .....	31
Table 22 Table Koku_Type .....	31
Table 23 Table Koku.....	32
Table 24 Table Institution_Koku .....	32
Table 25 Table Involvement .....	32
Table 26 Table Student .....	32
Table 27 Table Student_Koku .....	33
Table 28 Table Meeting .....	33
Table 29 Table Position .....	33
Table 30 Table Sk_Position .....	33
Table 31 Table Teacher.....	34
Table 32 Table Teacher_Koku.....	34

Table 33 Table Koku_Attendance .....	34
Table 34 Table Sk_Achievement .....	34
Table 35 Table Sk_Involvement .....	35
Table 36 Table Student_Class.....	35
Table 37 Table Teacher_Class .....	35
Table 38 Table Class .....	35
Table 39 Evaluations aspects to calculate co-curricular marks .....	38

## **CHAPTER I**

### **INTRODUCTION**

#### **1.1 Project Background**

The co-curriculum is one of the activities that can enhance the interaction and integration among students, advocating integrated in terms of cognitive, psychomotor and affective to produce a balanced as stated in National Education Philosophy. However, its implementation in school sometimes invites the risk of implementation due to the neglect of procedure implementation and negligence or others.

Extracurricular activities are also part of the school co-curriculum, and students should be involved. This activity can be carried out inside and outside the classroom, according to the suitability of an activity. With the assumption that the students do not get a certain experience in the classroom, the extra-curricular activities can provide a wide range of knowledge and experience for the development of mental capabilities, interests, talents, physical, spiritual and aesthetic values as well as positive social.

*"The National Co-Curriculum is an educational program including curriculum and co-curriculum, which includes all the knowledge, skills, norms, values, nature, culture and beliefs to help progress a pupil with respect solely to the physical, spiritual, mental and emotional as well as to nurture and develop moral values and desired to present knowledge" (Rule 3 (1) rules, 1997).*

Schools need to pay attention on the balance between academic and co-curricular activities. In 2006, the meeting of the Cabinet Committee has decided to take into account the involvement of the students in co-curricular activities as a condition for entry to higher education institutions (IPTA) by 10 percent.

In order to meet the Government's call for the development of national education through co-curricular activities, tasks, teachers also increased. Teachers need to record every student co-curricular activities. Therefore, the manual system is not to be done, but it needs to be replaced with a more systematic process to ease the burden of teachers. Based on these problems, **Co-Curriculum Management System (CMS)** has been developed. By using this system, tasks, teachers can be reduced without writing any co-curricular record manually.

CMS was developed to help teachers manage their extra-curricular activities with more systematic. With this system, all tasks performed manually will turn out to be automated. This system allows teachers to keep records of student co-curricular activities easily and scoring will be calculated automatically. Teachers can also register all meetings held and attendance of the system. The system is also able to produce annual reports on student co-curriculum. In addition, teachers, Senior Assistant co-curricular can also use the system to set the Advisory teacher co-curriculum at each type of either clubs and associations, sports and games or uniformed bodies. For class teacher they will enroll for students in the class because it is easy to monitor by the class teacher.

## 1.2 Problem Statement

There are some problems have been identified and should be resolved by using this system. Some of these problems are as follows:

i. Record the co-curriculum assessment manually

Co-curriculum management in schools nowadays are still using manual management methods. This method raises a variety of flaws such as the use of various forms and do not have access to student attendance report. Each student will be provided with a co-curriculum assessment record book. In the record books are written all the information about the meeting, co-curricular activities such as presence, participation and achievement of the co-curriculum. The record book will be saved during the session and each year the book will be reused to record annual activity co-curricular students. Co-curriculum record stored manually may be lost or damaged. Therefore, the method more systematic and efficient to use.

ii. Student activities are recorded manually.

Due to too many records to be filled manually, teachers become more work to do. Teachers must sign a report book co-curriculum for each student at each meeting to confirm the presence of the student. This leads to extra-curricular activities done with students became shorter due to the time required to complete the record of attendance of students too long.

iii. Co-Curriculum Score to each student is counted manually.

Calculation of the co-curriculum involves some aspect of the score a post held by students, participation in all co-curricular activities, achievements in every activity and attendance for each co-curriculum meeting. All these aspects are combined to calculate the overall scores in each type of co-curriculum and whether uniformed bodies, clubs and associations or sports and games. If one of the forgotten aspects note, it will affect the students ' co-curricular marks. In addition, the marks are filled by the teacher may not match the position, participation and achievement of students. A system developed to assist teachers in addressing the calculation of the co-curriculum according to the aspect of scoring score real based on the presence, position, participation and achievement of all students.



### 1.3 Objective

To complete this project, there are several objectives that need to be met. This objective will drive towards the success of this project. The objectives of this project are:

- i. Provide facilities for recording meetings, co-curricular and student attendance.

Each time the extra-curricular activities, students no longer have to carry books, co-curriculum assessment records to obtain confirmation of the presence of the teacher. Teachers only have to bring your laptop or smart phone to take the presence of the student. If there is no internet connection, teachers only need to record the date and time of activity as well as the names of students who do not attend and can fill in information through the system in their offices. With this system, time no longer being wasted by signing each student's report book.

- ii. Co-curriculum scores count automatically.

Teachers do not need to fill in the marks for each presence, position, participation and achievement of students one by one. Teachers only have to choose the position, participation and achievement of students, and this system will automatically calculate the marks. Each marks to the position, participation and achievement of students it has been saved in the database according to the aspect of the actual scoring. In the presence of about, the total score will be calculated based on the presence of activities attended by students. Marks the presence, position, involvement and achievements will be added automatically to produce the co-curriculum score as a whole. Teachers ' work can be reduced without having to calculate the scores student's co-curriculum is one by one.

- iii. To generate reports of the co-curriculum for each student score.

After reaching the entire co-curriculum score to each student, co-curriculum score report, annual generated and printable in PDF. Grade and PNG for each curriculum scores also emerged in the report. Advisory teachers can generate report's co-curricular Athletics scores for each student according to the type of extracurricular

activity and can be printed in PDF format. Class teachers can generate a whole co-curriculum scores report for all students by class and can be printed in PDF format.

#### **1.4 Scope**

This system can be used by:

- Teacher Class.
- Teacher Senior Assistant co-curriculum.
- Teacher co-curriculum Advisor.

#### **1.5 Conclusion**

Chapter 1 is briefly explained and introduced about the project, including the project background, statement of the problem and the objectives and scope of this project. Therefore, co-curriculum management system is proposed.

## **CHAPTER II**

### **ANALYSIS**

#### **2.1 Introduction**

The analysis is the second phase in SDLC where the whole system is defined in detail. Before this system analysis stage needs to be reviewed is developed so that the system runs smoothly. Levels this analysis consists of two parts, analysis of problems and analysis needs.

In Chapter 1 previously explain the problems faced by the system. During this analysis explained about the problems faced by the system which is a manual system and existing system. For improvement of these systems it must go through the process of this analysis so that we can know the weaknesses and shortcomings of the systems and the system manual. Therefore a solution to this problem are obtained and will be implemented in the system. All need to be revised so that no problems will occur during the process of development of the system is carried out.

The analysis is very important because it will help in making decisions and reduce costs during the stages of development and implementation is carried out.

## 2.2 Manual System (Report Book Co-Curriculum)

Most schools still use record books, co-curriculum assessment in the management of co-curricular activities. Too many forms to be filled manually and should be preserved so as not to corrupt or missing. Typically, schools will use co-curriculum, assessment record book to record all co-curricular activities. Example record books, co-curriculum assessment can be seen in the figure below. Some problems using record books, co-curriculum assessment identified for example.

### i. Attendance

Based on Figure 1, the problems encountered are co-curricular activities carried out each time, teachers had to write the date of the meeting, the activities carried out and the signature on the form manually to all students. Many spent time to write the same thing. If the student did not attend the meeting, they may still be able to ask their partners to bring their report. In this book of records need to be registered teachers all dates activities and signature. Therefore, if the portrayal of teachers has 50 students who attend the co-curriculum of teachers need to complete all then form it repeatedly in result in teachers feel tired and lazy to make it. Therefore the system more systematic and facilitate teacher need to be created so that teachers can make work more focused and thorough.

**REKOD KEHADIRAN KOKURIKULUM**

Nama : ..... Tahun : .....

No. K/P : ..... Tingkatan : .....

SUKAN/PERMAINAN (.....)

Minggu	Tarikh	Aktiviti	T.T. Guru Penasihat
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Jawatan Disandang : .....

Nama Guru Penasihat : .....

1. ....

2. ....

Figure 1 Manually co-curricular attendance records.





### iii. Report Of The Overall Scores For Each Co-curriculum

Figure 3 shows how the teacher need to write student's performance and marks based on student's performance. Sometimes the marks count does not match the performance of the students. Error in the filling and counting would affect the overall scores, grades and PNG students. This calculation is done by the teacher to each student and in truly prepared that teachers have to fill in the type of co-curriculum that had the student do all year. Therefore, teachers should also fill marks presence, a position he held, the participation and achievement of the filled form in Figure 1 and Figure 2 the filing before. Calculation of the marks made on the basis of 2 marks the highest of the extra-curricular activities that the student does. That's why teachers will experience many difficulties in filling out the report marks because teachers need to examine one by one the record there and it needs to be calculated manually. For example, if the teacher has 100 students to be filled marks is it a difficulty by the teacher to filling them one by one, of 100 students have to calculate it manually according to the formula is. In conclusion, a system should be developed which enable teachers to report scores.

RUMUSAN PENILAIAN TAHUNAN KOKURIKULUM						
Tingkatan : 4. EKAHATA 2				Tahun : 2020		
SK 10-104 BADAN BERUNIFORM (KADET POLIS KOKURIKULUM)		KELAB / PERSATUAN (AGAMA ISLAM)		SUKAN / PERMAINAN (RAGBI)		
Aspek Penilaian	PRESTASI	MARKAH	PRESTASI	MARKAH	PRESTASI	MARKAH
Kehadiran	Penuh	50	Penuh		Penuh	
Jawatan disandang	Ahli Aktif	4	Ahli aktif		Ahli Aktif	
Penglibatan	Pertandingan Kawad Kaki Peringkat Sekolah	8			Kejohanan MSSNM	
Pencapaian	Noib Jalan Kawad Kaki	7				
JUMLAH MARKAH		69	JUMLAH MARKAH		JUMLAH MARKAH	
Guru Pemimpin : T/Tangan : Tarikh : 18/10/20		Guru Penasihat : T/Tangan : Tarikh :		Guru Penasihat : T/Tangan : Tarikh :		

Nota : Rujuk pada perkara 6 di muka surat 6 untuk pemberian markah.

Figure 3 Manually summary of the annual co-curricular evaluations.

### 2.3 Work Process Manual System

Figure 4 shows the process flow to calculate how much score co-curriculum for each curricular unit by using a manual system of record books co-curriculum assessment. All details and marks will be included using the manual form and counted manually. The beginning of this process occurred when students attend extra-curricular activities, teachers should fill out the presence of the student, when attendance is already retrieved a score will be calculated according to how much the presence of the student. If the student has set the heavily involved in co-curricular teacher need to fill out the form to the position and marks calculated according to the position in hold it. While on the other hand for the involvement and achievement it is made when the student to involve themselves in extra-curricular activities undertakings and achievements that the student can be filled in manually achievements and participation. Marks achievements and involvement will be calculated in accordance with the highest score and highest score will be recorded. Finally the calculation of scores to the total will be calculated manually according to the formula already available. The score calculated according to marks taken from marks-marks that filled in the previous processes.

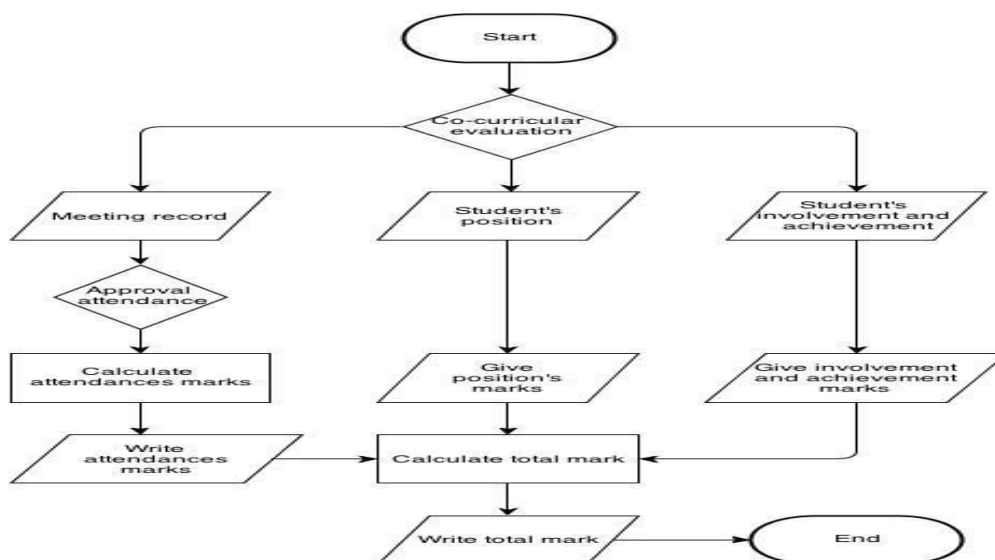


Figure 4 Manual process flow to calculate total co-curricular marks for each units of co-curricular

Figure 5 shows the flow of the process to calculate the amount of the average marks for co-curricular use manual systems. The report marks calculated through forms filled the presence, position, performance and engagement. The beginning of this process is to write the marks previously retrieved by extra-curricular activities undertakings which marks the presence of 50%, marks the position according to the position he held, marks the achievement and participation taken by the highest score. In turn, the scores will be calculated according to the two best scores obtained in any extra-curricular activities whether body uniform or sports games and clubs and associations. After that, combined with bonus points that said if the student have the bonus scores bonus points for example was ' national service training programed '.Finally, the scores will be calculated according to the formula given manually and given grade and GPA earned according to the marks that counted.

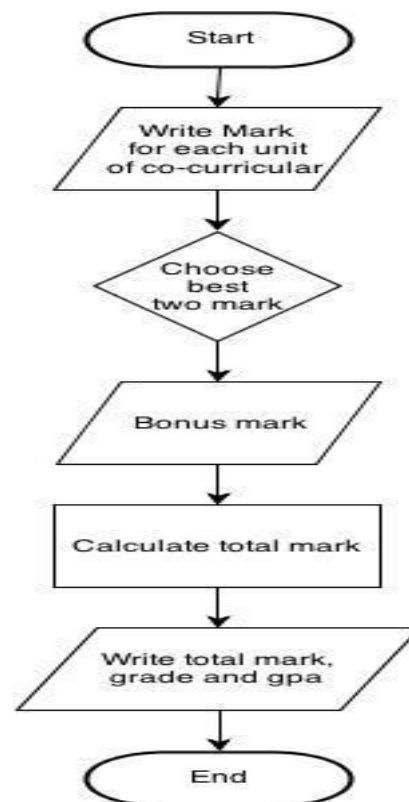


Figure 5 Manual process flow to calculate total average mark of co-curricular