FINAL YEAR PROJECT
POLICIES AND
PROCEDURES

Department of Computer Science
Kulliyyah of Information and Communication
Technology, KICT
International Islamic University Malaysia

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Version 4.0

FINAL YEAR PROJECT COMMITTEE
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1 FINAL YEAR PROJECT REQUIREMENTS

1.1 Brief Description

The Final Year Project (FYP) offers students an opportunity to undertake a project which students would find both challenging and interesting. This FYP project must be done in pairs. Only in special circumstances, exceptions may be allowed. Students will select a supervisor who will offer guidance at which students will meet on a weekly basis (or, as needed). The choice of a topic is from a list of project titles that will be published by the appointed supervisors. Each supervisor will supervise his own project topics. The supervisor will guide the students and the respective supervisor will advise on how best to complete his or her project. Each supervisor can only have a maximum of 10 students (recommended limit).

After deciding on the project title and a supervisor, the proposal for the project should be submitted 1 month after the project has been decided and some literature review has been done. The proposal should at least be 1,000 words in length or 2-5 pages thick and should not be more than 5000 words. Student will be assessed on the management of the project, the methodology, the intellectual quality and originality of the work, and the structure and coherence of the proposal. The student is also expected to show his or her result with proper slides, presentation, demo unit, posters and necessary presentation tools during his or her project demonstration day. At the end of the semester, all students are required to submit a Technical Report (short) and a Final Report which provides a title, abstract, introduction, methods, results, and discussions of the project. The Final Year Project plays an important role in ensuring your enrollment in the job market. Normally, in all interviews the interviewer will be interested to know more about the project.

1.2 Project Objectives

The Final Year Project objective is to assist the student’s professional integration and to increase his or her experience in research and development. Therefore, heavy concentration in producing a product and measuring relevant data is important to measure the student’s ability to do research as well as to gain industry experience in creating a product. The student is expected to complete a reasonably large project which integrates a number of issues that he or she is certainly aware of but includes some others that will require some research and study.

1.3 Project Duration

The project is to be completed within the span of 1 semester (4 months).
1.4 **Scope of the Project**

The projects should be result oriented and should follow a proper methodology in measuring certain aspect of the project’s performance, outcome or impact.

There are **SEVERAL** project areas that students can choose from:

1. Artificial Intelligence
2. Software Engineering
3. Real-time/Embedded Systems and Networking
4. Numerical computations/Quantum computing/Number theory

Some Examples:

1.4.1 **Artificial Intelligence**

The following are examples of Artificial Intelligence areas that students can work on:

1. Neural Network
2. Genetic Algorithms
3. Fuzzy Logic
4. Agents Programming
5. Image Processing
6. Spatial Recognition
7. Case Base Reasoning
8. AIML for artificial chat bots

AIML (Artificial Intelligence Markup Language) is an open source project to create artificial chatbots. The use of AIML can create specific brains for different knowledge based applications. Students in this project will explore the use of AIML interpreters as well as the use of AIML syntax to create their own chatbots for the use of knowledge based artificial intelligence. Commercial usage of it can be seen at alicebot.org

1.4.2 **Software Engineering**

The following are examples of Software Engineering areas that students can work on:

1. Software Development
2. Web Development

1.4.3 **Real-time/Embedded Systems and Networking**

The following are examples of networking areas that students can work on:
1. Memcache for high-speed web applications
   Memcached is a high-performance, distributed memory object caching system, generic in nature, but intended for use in speeding up dynamic web applications by alleviating database load. In most dynamic web applications, database accesses are heavy and hence an inevitable bottleneck causes high access and processing delays. Hence, the use of a distributed memory caching can totally reduce the speed of how redundant data is accessed and clustered. This project will make the students explore the possibility of creating high speed and high load web applications using a clustered memory caching in the back end. Prerequisites are mostly knowledge of Linux operating system and web programming such as PHP, JSP, python, Perl or ruby.

2. Embedded System for mini ATX
   Mini ATXs are small PC computers with a standard ix86 hardware and board usually attached to a small LCD screen for display. Projects in this area will involve customizing Linux kernels to be used for an embedded system. Possibility areas to create embedded applications are also possible. However, students are expected to find funding to buy their own testing mini ATX boards that could cost anywhere from USD300-USD1500.

3. High Availability Servers:
   Linux HA projects provide a high-availability (clustering) solution for Linux which promotes reliability, availability, and serviceability (RAS). Current implementations depend highly on heartbeat that sends UDP pulses to check on the status of various network services. Implementation of Linux-HA also can be combined with LVS (Linux Virtual Server) setup to allow clustering and load balancing methods assuring better performance aside from just RAS. Projects in these areas are mostly projects on but not limited to:
   a) creating an IP failover projects that can assure reliability in a system.
   b) load balancing on the 3 different methods of (round robin, TCP, IP) based requests
   c) Using Heartbeat for failover and data replication

1.5 Off-Campus Project

   Student may consider undertaking projects at other organizations if the project title is similar to the topic chosen or approved by the FYP committee. However, it will be the student’s responsibility to initially approach those organizations, and the Department will follow-up later with an official arrangement once it has been approved. It is important to communicate clearly to the prospective organizations that the nature of the arrangement is not an ‘industrial attachment’ and students are to conduct the project while taking courses on campus.

1.6 Project Proposal
Students will be asked to submit the chosen project title and a full project proposal within 2 weeks of choosing a project title. Student will acquire the advice of the supervisor of the topic that he/she wishes to choose. If a student plans to choose his own project title, which is not in the list of projects published by supervisors, the student must propose the project to the committee member and present his or her case. Should the project that the student wishes to undertake is sufficiently equal to the project title proposed by supervisors both in terms of difficulty and complexity, then the student may be granted to proceed on his own project.

The full project proposal should at least be 1,000 words in length or 2-5 pages thick and should not be more than 5000 words. The proposal should include the following items.

1. Mission Statement
2. Scope: Define the scope of work of the project
3. Objectives and Goals: Determine the broad project goals, then identify the specific objectives that define how the project accomplish these goals
4. Benefits: Who will benefit from this project and how
5. Outcomes: Draft expected project outcomes in measurable terms
6. Timeline: Draft a realistic timeline
7. Preliminary Literature Review: Conduct appropriate preliminary literature review

1.7 Monthly Report

Students are required to submit three monthly progress reports during the project. The purpose of this report are to provide information on the amount of work that student have completed (based on his Gantt chart), to guide students in the right path and to monitor progress of the project. These reports will be considered for continuous assessment of performance of the students by the respective supervisors.

1.7.1 Monthly progress report

The purpose of this report is to ensure that students have sufficient means to do their projects and to determine if the student is on the right track.

Student is required to write a simple report which contains research findings, literature reviews, experimental methods and detailing the Gantt chart formulated. The report should indicate the availability of infrastructure, equipment, software, expertise, sufficient time frame and acceptable level of difficulty. Attachment of Gantt chart is compulsory.

The report must comprise the following:

1. Introduction
2. Project Description
3. Progress Summary
4. Problems Encountered
5. Changes in Requirements
6. Overall Assessment of the Project

Submission **MUST** be made to the supervisor. Please refer to the how to write a progress report in the references section.

### 1.8 Show Case
At the end of the project cycle, the coordinator will arrange to open up a show case area for the FYP students. Each group will have a booth of their own to exhibit the students’ project. Complete demo sets, as well as posters and handout must be prepared for the show case demonstration. Students are expected to promote and demonstrate their products during the show case.

### 1.9 Final Year Project Report

#### 1.9.1 Final FYP Report

The Final FYP report should be submitted in a hard copy version and a soft copy version of it. The hard copy should be neatly bound. At the Spine of the report print the following

- Student name
- Project title
- Semester and year

**Other formats of the report please refer to the appendices.**

Submission **MUST** be made to the FYP supervisor. Without the report, student will get an F grade.

### 1.10 Technical Report

The students are required to write a dual column technical report of their project.

The format for Technical report is dual column, news letter style and should include items that are parallel to the experimental process of the final year project being conducted. Examples of items that should be present are:

- Title, Authors and Affiliation
- Abstract
- Introduction
- Methods
- Results
- Discussion
- Acknowledgments
• Literature Cited

As a rough guide line, each section should give you answers to the following questions:

<table>
<thead>
<tr>
<th>Experimental process</th>
<th>Section of Paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>What did I do in a nutshell?</td>
<td>Abstract</td>
</tr>
<tr>
<td>What is the problem?</td>
<td>Introduction</td>
</tr>
<tr>
<td>How did I solve the problem?</td>
<td>Materials and Methods</td>
</tr>
<tr>
<td>What did I find out?</td>
<td>Results</td>
</tr>
<tr>
<td>What does it mean?</td>
<td>Discussion</td>
</tr>
<tr>
<td>Who helped me out?</td>
<td>Acknowledgments (optional)</td>
</tr>
<tr>
<td>Whose work did I refer to?</td>
<td>Literature Cited</td>
</tr>
<tr>
<td>Extra Information</td>
<td>Appendices (optional)</td>
</tr>
</tbody>
</table>

Extra references on how to write technical write-up papers should refer to the references section of this document for an Internet link to “How to Write Guide.”

1.11 Class Attendance

Once a month students are expected to attend the FYP class session to discuss on project status and project difficulties. It is also expected to submit project monthly reports during the class attendance.
2 PRE-REQUISITES AND PROCEDURES

2.1 Pre-requisites

2.1.1 The Final Year Project is restricted to 4th year students only. Therefore, student may undertake the Project after finishing their industrial attachment.

2.1.2 In addition, student must also have completed the core course that is directly related to the project area.

2.2 Procedures to Participate in the Project

2.2.1 Application

Identify the project title of the final year project. Student is required to contact the supervisor of the project title to assure availability of taking the project. A supervisor may advise only up to 10 students. If the allocation for a supervisor is full, a student will have to choose a new supervisor and a new project title. Supervisors and project titles are limited; students are expected to make quick decision in choosing their choice of project and supervisors.

Fill up a project proposal by completing the “Application for Final Year Project Form”. The form is available at the Department’s Office and the Final Year Project Coordinator’s room.

Submit the completed and signed application form to the department.

2.2.2 Monitoring of Student’s Performance

Monthly class attendance or contacting with the supervisor is compulsory. Failure of which to attend, may result to a warning letter.

Check the schedule with your supervisor for a weekly meeting with the respective supervisor. Failure to attend three (3) meetings in a semester will result in an issuance of a warning letter to a student. Upon receiving two (2) warning letters, student is barred from the course (section). All supervisors are requested to inform about any irregularity of any student to the FYP coordinator.

For off-campus project, student must plan the meeting with the users and report the outcome of the meeting to the respective supervisor.

For every meeting with the respective supervisor, the student should update his or her own personal log book to record what has been discussed and what the action plans are. Students will be provided with a standard log book by the department.
2.2.3 Report Submission

Submit the first two reports to the respective supervisor (due date as stated in handbook and posted on the Notice Board).

At the end of semester, submit the Technical Report and Final report to the Department’s Office. Students are required to sign on the list of names provided at the Department Office (due date as stated in handbook and posted on the Notice Board).

Project Milestones

<table>
<thead>
<tr>
<th>Item</th>
<th>Deadline</th>
<th>Submission to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Proposal</td>
<td>Week 2 of the Semester</td>
<td>Supervisor</td>
</tr>
<tr>
<td>1st. Monthly Report</td>
<td>Week 4 of the Semester</td>
<td>Supervisor</td>
</tr>
<tr>
<td>2nd. Monthly Report</td>
<td>Week 8 of the Semester</td>
<td>Supervisor</td>
</tr>
<tr>
<td>3rd. Monthly Report</td>
<td>Week 12 of the Semester</td>
<td>Supervisor</td>
</tr>
<tr>
<td>Show Case</td>
<td>Week 13 of the Semester</td>
<td>Venue will be announced</td>
</tr>
<tr>
<td>Final Report</td>
<td>Week 14 of the Semester</td>
<td>Department Office</td>
</tr>
<tr>
<td>Technical Report</td>
<td>Week 15 of the Semester</td>
<td>Department Office</td>
</tr>
</tbody>
</table>

2.2.4 Assessment

1. FINAL grading will be done by the respective supervisors.
2. Recommended distribution of Marks (*please find the evaluation forms attached with this document*):
   - **Total Marks:** 100
   - **Supervisor:** 80 Marks (Continuous Assessment + Technical Report + Final Report + Presentation)
   - **Examiner:** 20 Marks (Technical Report + Presentation)

Please refer to the evaluation forms for supervisor and examiner.

* For Showcase event, mutual agreement (markings) among the judges (supervisors and externals) or any other free-format form could be used.

2.3 Plagiarism and Cheating

2.3.1 What is Plagiarism and Why is it important

Plagiarism is using others’ ideas and words without clearly acknowledging the source of that information.

Further information, please visit:

- Plagiarism: What it is and How to Recognize and Avoid it
2.3.2 Suspected Plagiarism

If student is caught or suspiciously suspected of doing the above, a detail and thorough investigation will be conducted by the department. Those caught with plagiarism may be penalize heavily and shall not be able to pass the course.

2.4 Rechecking of the FYP Grade

Write a formal letter to the Head of Department and cc to the Final Year Project Coordinator requesting to apply for rechecking complete with the details as follows:

1. Name
2. Matric Number
3. Supervisor
4. Current FYP grade
5. Reasons for rechecking

You also need to include a payment of RM 100 together with your letter. Failure of doing so will result in not being considered for rechecking. Upon approval from the HOD, another lecturer or a group of lecturers will be appointed to recheck all the reports and submit a report on the new grade.

Student will have to deliver another presentation and a group of lecturers (at least two) will be appointed to re-evaluate the student’s presentation and propose a new grade.

The new grade can be of a higher or lower grade than the one previously obtained by the respective student.

2.5 FYP Policies

2.5.1 Students who fail to meet their supervisors three times in a semester will be given a warning letter and five times or more to be barred from the course.
2.5.2 Students are **NOT ALLOWED** to change the topic of their FYP projects once the proposal has been approved by the FYP Committee without consulting the FYP Coordinator.

2.5.3 Students are **NOT ALLOWED** to change the assigned supervisors/sections without consulting the FYP Coordinator.

2.5.4 Students are **NOT ALLOWED** to do their FYP in short semester (Semester 3).

2.5.5 The FYP Final Report shall be within the range of **10-15 pages** thick (~5,000 words) in terms of content (excluding appendices and cover pages)

2.5.6 Late submission of the FYP Final Report to the department will be penalized.

2.5.7 Failure to take part in the show case will result in failure.

### 2.6 FYP Related Dates and Technical Terms at a Glance

**Technical Report Submission Date:** By this date, the students must submit the preliminary version of their project reports to the respective supervisors.

**FYP Presentation Period:** Within this period,

1. The students are required to present their FYP outcomes.
2. All the presentations will be internal presentations in decentralized way.
3. Each supervisor needs to get an examiner\(^1\) for each presentation.

Reasons behind this:

(a) Difficulty in getting all faculty members at a time at the same place.
(b) The supervisors can schedule the presentations in their convenient times.
(c) Making the task of attending multiple presentations easy and flexible.

**Showcase Date:** On this date, some of the selected projects will be invited to give a formal presentation. There will be some awards for the relatively better projects which will be judged by the faculty members and the external\(^2\) members. For the invitations, the supervisor’s recommendation should be forwarded to the FYP coordinator.

**NOTE:** The supervisors will be responsible to bring their chosen external members. Remuneration and gift for the externals will be managed by the department office.

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\(^1\) An Examiner could be a person within the same Kulliyyah other than the supervisor of the FYP.

\(^2\) An External could be a person who is from outside of the same Kulliyyah and preferably from Industry.
Final Report Submission Date: By this date, the students must submit their final project reports to the respective supervisors.

Grade Submission Date: By this date, the supervisor should submit the FYP grades.

THE WORK STRUCTURE:

- The supervisors and students will be in regular contacts throughout the semester. FYP coordinator could intervene only when there is any dispute or genuine cause arises to handle a special case.
- It is understood with the spirit of Islam that each supervisor ensures the quality of the FYPs and presentations.
3 GENERAL PRESENTATION GUIDELINES FOR FINAL REPORTS

3.1 Language

The language of the project paper is English.

3.2 Paper

- **Size**: A4 (21.0cm X 29.7cm)
- **Quality**: Acid-free paper of at least 80gm weight
- **Color**: White

3.3 Font Size and Type

Students **MUST** use *Arial*. Other fonts are **NOT ACCEPTABLE**.

Font Size:

- For Headings and subheadings, use 12-point font.
- For Table of Contents, use 11-point font.
- For Text, use 11-point font.
- For Tables and Figures, use 11-point.
- For Footnotes, use 9-point font.

Please type in **bold** for headings and subheadings. **Headings** should be typed in all **upper case letters** while **sub-headings** are to be typed in **upper and lower case letters**.

3.4 Line spacing

The project paper should be typed on one side of the page. Line spacing is 1.5 lines for the text, with single-spacing for exceptional circumstances only:

- Footnotes
- Long headings or subheadings
- Long captions to tables, or figures
- References
- Appendices
- Tables
- Quotations

3.5 Margins and Justification

Set the justification to “full” and the margins to the following measurements:
3.6 Pagination

The following plan of page numbering has been standardized and must be observed. All page numbers should be right aligned at the bottom of the page (footer).

a. Preliminary pages. Preliminary pages include all the sections that precede the text. They are arranged and numbered using small Roman numerals (i, ii, iii, etc.).
b. Text pages. Use format <page number>.
c. Supplementary pages. No pagination.

3.7 Use of Footnotes

Footnotes MUST NOT be used for citing references. They should be used only for useful extensions and excursions of information in the body of the text. Footnotes should be numbered consecutively with superscript numerals. Footnotes should be in single spacing, using font size 9-point.

3.8 Header and Footer

Header :

The chapter or topic should be right aligned at the top of page, using font size 9-point.

Footer :

The page numbers should be right aligned at the bottom of the page, using font size 9-point. The page number format :

- Roman numerals for preliminary pages.
- <page number> for text pages.

3.9 Format Guideline

The following format is recommended for the project:
Report Format Guideline

The guideline on the format of a complete report is described below:

COVER PAGE
ABSTRACT
TABLE OF CONTENTS
LIST OF TABLES
LIST OF FIGURES / ILLUSTRATIONS
LIST OF ABBREVIATIONS / SYMBOLS / SPECIALISED NOMENCLATURE

INTRODUCTION

PROBLEM / OPPORTUNITY DESCRIPTION

LITERATURE REVIEW / CASE STUDY
PROPOSED SOLUTION
  Project Methodology
  Project Goal
  Project Scope
  Project Objectives
  Potential Benefits
  Hardware & Software Requirements

PROJECT DESIGN
  System Flow
  Input and Output
  Database Design / Algorithm / Hardware Technology / Storyboard

PROTOTYPE DEVELOPMENT

CONCLUSION
  Assumption & Constraint
  Potential Future Enhancement

REFERENCES

APPENDICES (Gantt Chart to be included as Appendix)

GLOSSARY

INDEX

Soft copy of the system in diskette or CD (placed in a paper pocket attached to the back cover of the report)
This format is just a guideline. The actual finalized report should be made as being advised by the supervisors except for the Front Page – Table of Content in which the sequence and format must be followed.
4 REFERENCING

When students are writing a piece of work it is essential that students provide detailed and precise information on all the sources students have consulted. Always remember to record the details about an item as students use it. The use of public material without acknowledgement is plagiarism for which the penalty will be failure of the dissertation.

4.1 Setting out References

There are two methods by which references can be displayed, the British Standard and Harvard. Once a method has been selected it is important to be consistent in applying it. (http://www.unn.ac.uk/central/isd/cite/set.htm).

4.1.1 British Standard (Numeric) System (B.S. 1629:1989)

Book


Journal Article


Section in a Book edited by Another


Monograph


Thesis


Conference Proceedings


Web Page

4.1.2 Harvard System

Book

Journal Article

Section in a Book edited by Another

Monograph

Thesis

Conference Proceedings

Web Page
5 DISTINGUISHED FINAL YEAR PROJECTS

Nominees will be selected by the FYP Committee based on the top few projects and student’s overall performance (presentations & reports). This event will be conducted during the Revision Week.

5.1 Best FYP Category Award

Towards the end of the semester, three of the best projects will be chosen to be nominated as the best FYP overall projects. Among which, projects are evaluated and given the award for second runner-up, first runner-up and champion of FYP projects.

The reward for all the three awards will be a certificate, a token and a trophy from the kulliyyah.

5.2 ACADEMIC STAFF INFORMATION

Refer to the website:
http://www.iiium.edu.my/kict/people/academic-staff
6 REFERENCES

Citing References
http://www.bournemouth.ac.uk/academic_services/documents/Library/Citing_References.pdf

Cite them right: referencing made easy
http://www.unn.ac.uk/central/isd/cite/index.htm

KICT FYP Guidelines
http://kict.iiu.edu.my/claroline/courses/FYP/

How to write a Progress Report
http://www.ecf.utoronto.ca/~writing/handbook-progress.html

How to write Guide for Journal-like scientific write-up
http://abacus.bates.edu/~ganderso/biology/resources/writing/HTWtoc.html
7 APPENDICES

Appendix A - Application Form
Appendix B - Cover page
Appendix C - Front cover (hard cover
Appendix D - First page: Title Page
Appendix E - Second page: Approval Page
Appendix F - Third page: Acknowledgement
Appendix G - Fourth page: Abstract
Appendix H - Fifth page: Table of Content
Appendix I - Sixth page: List of Figures
Appendix J - Seventh page: List of Tables
Appendix K - Eighth page: List of Appendices
### Department of Computer Science KICT

**Application Form for Final Year Project**  
Semester I, 2006 / 2007

(Note: It is important to fill up all the information below).

## Student Information

<table>
<thead>
<tr>
<th>Name</th>
<th>Matric No.</th>
<th>E-mail Address</th>
<th>Address During Study</th>
<th>Mobile phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>House Address</th>
<th>Phone</th>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Supervisor Information

<table>
<thead>
<tr>
<th>Potential Project Supervisor</th>
<th>Comments:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

I hereby agree that this student has not been confirmed to be my supervisee

<table>
<thead>
<tr>
<th>Signature:</th>
<th>Date:</th>
</tr>
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<tbody>
<tr>
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## Project Information

<table>
<thead>
<tr>
<th>Proposed Title</th>
<th>Artificial Intelligence</th>
<th>Software Engineering</th>
<th>Embedded/Real-time and Networking</th>
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<table>
<thead>
<tr>
<th>Project Area (Circle one only)</th>
<th>Platform (if applicable):</th>
<th>Special Software/Facilities Required:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artificial Intelligence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Software Engineering</td>
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<tr>
<td>Embedded/Real-time and Networking</td>
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### Project Description

**System Development:**

- i. Features and capabilities of the proposed system
- ii. Expected Output
- iii. Expected User(s)
- iv. Benefits of the Project
APPENDIX B
Example of Cover Page

KULLIYYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY

DEPARTMENT OF INFORMATION SYSTEMS

FYP REPORT

GAS DELIVERY SYSTEMS

ABDUL HANNAN BIN AMIRUDDIN
9976123

SUPERVISED BY
ZULKEFLI M YUSOF

MARCH 2006
SEMESTER II 2005/2006
Gas Delivery Systems

by
Saif Sawab bin Khairuddin
9976543

A project paper submitted to the
Department of Information Systems
Kulliyyah of Information and Communication Technology
in partial fulfillment of the requirement for the
Bachelor of Information Technology

Approved by the Examining Committee:

_____________________________
Zulkefli M Yusof, Project Supervisor

_____________________________
Rusydi Muhammad, Member

_____________________________
Ahmed Zeki, Member

International Islamic University Malaysia

March 2006
Semester II 2005/2006
ACKNOWLEDGEMENT

Praise and thanks to Allah first and foremost whose blessing enabled me to accomplish this project.

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A special thank to my parents and to all my teachers I have had. Thank you to Dr. Ahmad Faizul, Dr. Farouq, Mr. Zeki, Dr. Husnayati and Mr. Adli.

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My sincerely thanks to all those whom directly or indirectly help me to complete this project.
This project involves analyzing and designing a prototyping system that automates the company business operation of Taiping Petronas Distributor, Rusba Sdn Bhd. The main objective of this project is to process daily transaction more effectively and efficiently through a computerized system and replace the current manual process. The Gas Delivery System (GADS) will be able to auto calculate daily sales, sales commission, purchase and transport cost beside generating monthly sales report. The system also ensures that the record searching process of required information on gas delivery transactions will be easier and faster. The system is developed using Microsoft Access 2002.
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