**<SYSTEM NAME>**

A System Proposal presented to the

Faculty of the College of Computer and Information Sciences,

Polytechnic University of the Philippines, Sta. Mesa, Manila

In partial fulfillment for the course

INTE 3043 – Systems Analysis and Design

(for SAD)

In partial fulfillment for the degree

Bachelor of Science in Information Technology

(for Capstone)

<Last Name, First M.I – alphabetically arranged>

***Proponents***

**<Month>, <Year>**

**SAD/CAPSTONE PROJECT DOCUMENTATION OUTLINE (with brief description enclosed in parenthesis not be included in the documentation)**

Title Page

Executive Summary (Abstract – for Capstone only)

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# **Chapter 1 – Introduction**

* 1. **Project Context** (Background of the project/company including organizational profile)
  2. **Technical Background** (Environment)
     1. Equipment/Hardware
     2. Software
     3. Peopleware/Manpower
     4. Network Infrastructure/Architecture
     5. Storage, Backup and Recovery Procedure
     6. Security Procedures
     7. Policies and Procedures (may include DFD if applicable)
     8. Data and Process (if applicable)
  3. **Problem Analysis**
     1. Fishbone Diagram (diagram with textual /narrative discussion)
     2. Problem and Solution Statement (formal statement of root of the problem derived from the fishbone analysis and proposed IT-related solution to address the problem identified)
     3. Problem – Requirements Matrix (Mapping of list of problems to requirements that will address the problem/s)
  4. **Purpose and Description** (To propose a solution to…)
  5. **Specific Objectives**

1. To enumerate the problems…
2. To evaluate the existing…
3. To propose a …
4. To identify the requirements of the proposed …
5. To design a …
   1. **Scope and Limitations** (of the problem domain)

# **Chapter 2 – Review of Related Literature/Systems**

(narrative and thematically arranged reflecting the proponent’s knowledge of the solution domain based on critical analysis of existing literature/systems to identify basic requirements, innovative features and possible improvements on existing technologies/systems)

# **Chapter 3 – Methodology**

* 1. **Requirements Analysis** 
     1. Requirements – Features Matrix
     2. Use Case Diagram
     3. Use Case Report
  2. **Design Specifications** 
     1. Activity Diagram (per use case)
     2. Class Diagram (per use case)
     3. GUI Design (screen shots)
     4. Database Schema
     5. Data Dictionary
  3. **Development Methodology** 
     1. Process Model – (waterfall, incremental, fountain, etc..)
     2. Development Tools – (PLs, DBs, IDEs, frameworks, APIs, generators and other dev’t tools)
  4. **Test Methodology/Procedures** – (testing technique, methods and procedures of development team)
  5. **System Requirements** (hardware, software, other components for system implementation)
  6. **Quality Plan** – (procedure and instrument that will be considered in assessing the quality of the system i.e. ISO 9126, FURPS, etc.)
  7. **Evaluation Plan** - (specify schedule, procedure, and users for the evaluation of the system)

# **Chapter 4 – Results and Discussion**

**(discusses and explains results on evaluation of system and factors affecting the results)**

# **Chapter 5 – Conclusions and Recommendations**

**(provides conclusion based on results of evaluation and recommendation to future developers)**

**References** (use apa style)

# **Appendices**

Pictures on data gathering and investigation (i.e. floor plan, layout, building, etc.)

One-page CV per team member

Source code

Evaluation tool/ test documents

Users guide

Test results

Sample generated outputs