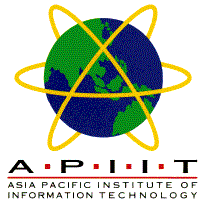
**ASIA PACIFIC INSTITUTE OF INFORMATION TECHNOLOGY**

**System Development Methods CE00321-2**

# Project Specification

Intake : PT1281

Lecturer : Mr. Pardeep Kumar

Date Assigned: 11 Feb 2015

Date Due : 18 April 2015

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| **Module Learning Outcomes** |
| 1)Explain the purpose, structure and scope of a traditional methodology and select and justify appropriate methods of analysis, design and implementation for a particular component or application, be it SDLC, Multimedia or Web based. |
| 2) Analysis and develop different views of a system. |
| 3) Apply structured analysis, design and implementation techniques to develop a simple prototype, with a suitable interface, from conception through to implementation. |
| 4) Demonstrate a knowledge of the fundamental issues of HCI by applying interface design principles to a prototype |

**Project Management and Assessment System (PMAS)**

There are different milestones associated with project. Right from receiving the project, allotment of the projects to the right expertise, to conduct the meeting at regular intervals to track their progress and document management for project is being performed manually in the organization. So maintaining statistics of all these milestones is a very difficult task to perform.

It has been decided by the management of the APIIT SD INDIA that a web-based solution will be developed which will automate the project management activities. The proposed system will address all the above mentioned issues for systematic delivery of the projects.

Proposed system will have following functionalities:

1. **Administration Module**
   1. Students insertion, updation, and Searching
   2. Faculty insertion, updation, replacement and Searching.
   3. Login will be based upon role.
   4. View Skill Matrix of Faculty.
   5. Allocation of Supervisor.
   6. Allocation of Moderator.
   7. Reports if any.
2. **Supervisor Module**
   1. Fill Skill Matrix.
   2. Update Skill Matrix.
   3. View Supervisory List.
   4. View Supervisory document.
   5. Sends remainder mail to supervisory.
   6. Fill meeting detail held with supervisory.
   7. Assessment of uploaded document.
   8. Reports if any.
3. **Student Module**
   1. Upload Project Proposal.
   2. Upload Project Specification.
   3. View Faculty skill matrix.
   4. Request for particular Supervisor Allocation.
   5. View Feedback from supervisor.
   6. View feedback from Moderator.
   7. Request from supervisor for meeting.
   8. Reply to supervisor for reminder mails.
   9. Reports if any.
4. **Moderator Module** 
   1. Fill Skill Matrix.
   2. Update Skill Matrix.
   3. View assigned students.
   4. View student’s document.
   5. View marks given by supervisor.
   6. Reassess uploaded documents.
   7. Give feedback to students for uploaded documents.
   8. Status of no. meetings held with supervisor.
   9. Reports if any.

Note: These functionalities are tentative and may change based on no. of group members.

**Project Requirement Specification**

**Aim:**

The aims of this assignment are to:

* Develop skills in choosing an appropriate traditional methodology
* Develop skills in applying structured techniques that are relevant to the chosen methodology
* Develop skills in analyzing and recording the requirements of a system
* Develop skills in analyzing and developing different views of a system
* Develop skills in developing a prototype, with suitable interface, from conception through to implementation
* Demonstrate a knowledge of the fundamental issues of HCI by applying interface design principles to a prototype

#### Assessment

The total marks of this group case study are 100% in internal assessment and it accounts **50%** of total module marks.

**Outline of Task:**

You have been given the task to **analyze,** **design, implementation** for the given Case Study. Your class will be divided into groups. Each group will comprise of 3-4 members.

**Note**: - *The functionalities shown in above case study are indicative*. *Students have to find their own functionalities for the effective management.*

###### Suggested Presentation Format

##### This project is a group effort and should be treated as though you are proposing a system for an organisation. The following is a suggested **minimum** report format. It is recommended that your report contain at least the following:

##### **Cover Page**

Your cover page should contain the following items:

1. APIIT Logo
2. Subject Title
3. System Name
4. Intake Title
5. Intake Code
6. Group Number
7. Group Members’ Name

# Table of Contents

The table of contents should have the topic title and reference page number attached to each topic.

# Introduction

This should include your task, the scope of the proposed system, and the objectives for the proposed system.

# Schedule Planning – Week distribution and Gantt Chart

This should include your group’s schedule on this assignment and the dates and tasks and the responsible group member(s) has to be included in your schedule. All this information should be shown in a Gantt chart, Week Distribution and **Workload Matrix** (sample workload matrix attached).

# Selection of Methodology

Explain the purpose, structure and scope of a traditional methodology and select and justify appropriate methods of analysis, design and implementation, be it traditional, multimedia or web based.

# Problem Analysis - Current Systems

Brief analysis of the current system including description of the constraints and opportunities for the proposed system.

# Overview - Proposed Systems

An explanation of how the proposed system solves the existing problems and addresses opportunities.

# Process Model for Proposed Systems

*Logical process model*

1. Context diagram
2. Use case and Activity diagram.
3. Process Specification (Structured English, Decision Table and Decision Tree)

# Data Models - Proposed Systems

*Logical Data Models:*

1. Entity Relationship Diagram, showing named relationships, cardinality (mandatory/optional), and cardinality (one-to-many, one-to-one, etc)
2. Actual Database Schema

**Event Model**

* Class and Sequence Diagrams

**Interactive Screen Design**

Design Input and Output Screen for the system along with Story boarding.

###### Programming Environment

* The assignment requires you to use a contemporary prototyping tool that permits the development of graphical user interfaces (GUIs) to develop a prototype with implementation in any language.

# The Documentation and Referencing

The documentation has to be word processed, printed on both side A4 size paper with 1.5 line spacing (optional) and comb bound (sample of the binding will be shown accordingly). The number of pages (both sides) should be maximum 35.Font to be used in Times New Roman. Font Size is 12.

Header & Footer: Font 10, Times New Roman (normal typing)

Header: i. Left: Module name (in full)

ii. Right: Page x of x

iii. Centre: Type of In-Course Assessment

Footer: i. Left: Level (2)

ii. Centre: Asia Pacific Institute of Information Technology

iii. Right: Year (yyyy)

Harvard style referencing is required.

The assignment will be given to students in the **3rd week** and they have to return it in **12th week**. Your group has to **present your solution and suggestion** to the lecturer and the presentation will be judged accordingly.

**(Note: Each group member has to be involved in the presentation)**

**Progress Report and Partial Submission**

The each group has to submit a biweekly progress report and minutes of meeting with information about the decision taken in meeting and action points decided for the next two weeks. Each group must submit at least **five biweekly reports for the whole assignment**. With the submission of report, the group need to show the claimed work accomplished till date. Partial submission marks will be accesses according to class performance.

**What You Need To Hand In?**

Your group needs to hand in the group case study on the due date mentioned on the cover sheet of the assignment.The presentation will be conducted according to the date & time allocated to each group. **Each group member will be involved in the presentation in which individual separation of marks will be quantified as a final mark set. The workload matrix should indicate the contribution of each individual for each required component (shown in %age form) and should be signed off by each team member**. **Late submissions will not be assessed unless extenuating circumstances are upheld.**

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| **ASIA PACIFIC INSTITUTE OF INFORMATION TECHNOLOGY** | | | | | | | | | |
| **SU Degree - Level 2** | | | | | | | | | |
| **System Development Methods CE00321-2**  **Marking Scheme** | | | | | | | | | |
| **Intake:** | **PT1281** |  |  | Group No. |  | | |
|  |  |  |  |  |  |  |  |
| **No** | **Student Id.** | **Name** | |  |  |  |  |
| 1 |  |  | |  |  |  |  |
| 2 |  |  | |  |  |  |  |
| 3 |  |  | |  |  |  |  |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Group Components (40%)** | | |  |  | | **Component Name** | **Max Marks** | **Member 1** | **Member 2** | **Member 3** | | Introduction | **3** |  |  |  | | Schedule Planning | **2** |  |  |  | | WBS | **2** |  |  |  | | Feasibility Report | **3** |  |  |  | | Methodology Chosen | **5** |  |  |  | | Selection of investigation techniques | **5** |  |  |  | | Documentation and Referencing | **10** |  |  |  | | Presentation | **10** |  |  |  | | **Individual Components (60%)** | | | | | | Process Modeling | **10** |  |  |  | | Data Modeling | **10** |  |  |  | | Event Modeling | **10** |  |  |  | | Implementation | **10** |  |  |  | | Screen Design | **10** |  |  |  | | Partial Submission | **10** |  |  |  | | Total | **100** |  |  |  | | | | | | | | | | |

**Group Member Signature:**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3.\_\_\_\_\_\_\_\_\_\_\_\_\_**