



# Student Placement Management System (SPMS)

## IT301 Industry Project

**Project Clients**  
Jenny Tregear  
Jennifer Watson  
Faculty of Health Whitireia New Zealand

**Project Academic Supervisor**  
Neale Catchpole

**Project Team Members**  
Lakshmi Dharavath  
Lisa Aliva  
Thephin Kumpraewpan

### INTRODUCTION

Faculty of Health, Whitireia New Zealand required the system to manage student clinical placement.

### PROJECT OBJECTIVES

- Providing end user satisfaction by simplifying the work procedures and saving the time related costs.
- Improving reporting capabilities and the ability to retain the historical data.
- Producing a system that requires minimal training for the end users in order to use it.

### PROJECT TOOLS

- Microsoft Project - Project plan, Gantt chart, Work Breakdown Structure (WBS).
- Microsoft SQL Server 2008 R2 - Physical model .
- Microsoft Word - System documentation.
- Microsoft Visio - Logical model, System navigation plan.
- Visual Paradigm - Conceptual model, Use cases, Activity diagrams, Class diagrams.
- Visual Studio.Net - Prototype development.

### METHODOLOGY

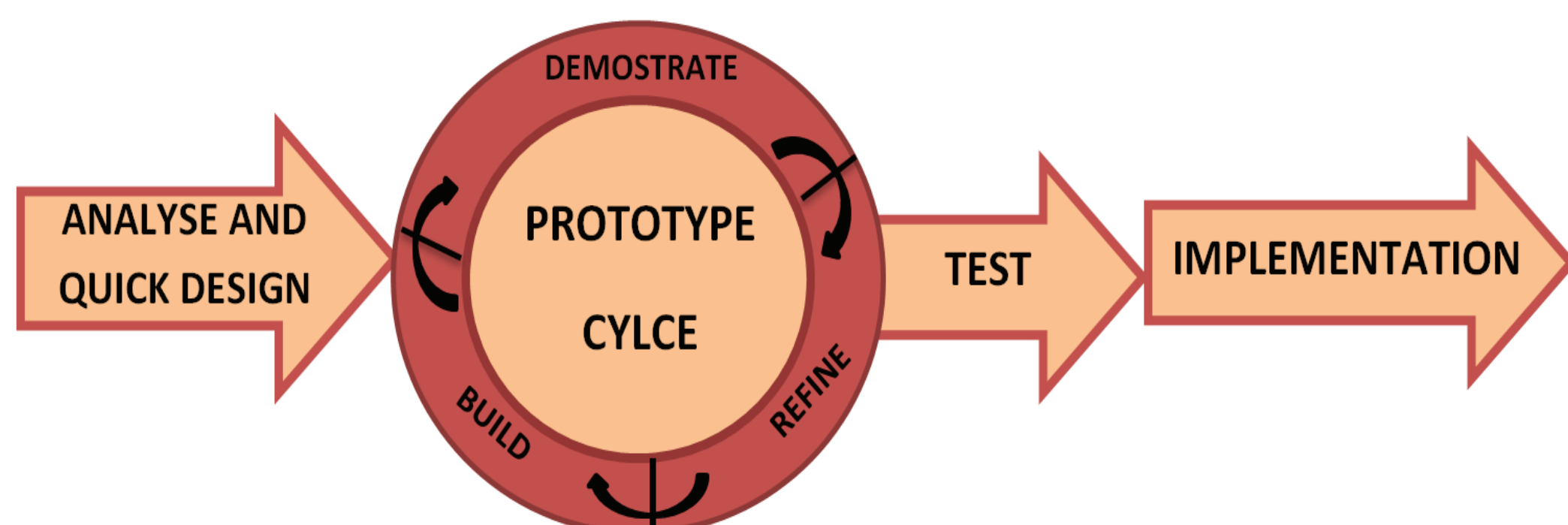


Figure – 1: Rapid Application Development of Agile approach

This project is managed by Rapid Application Development (RAD) of Agile. This allowed our team to involve the clients throughout system development phase. The users were involved in the Systems requirements definition phase, Interface design phase, Database and Program development phase. User feedback is gathered at each phase and iterations were carried out following the changes suggested by users at each phase.

### PROJECT SCOPE

- Produce a design for a system to be built for a prototype .
- A database needs to be created to store and manage student clinical placement.
- System should allow placement allocation, display vacancies, clashes and provide Email merge.
- Restrict replicated data.
- Add, update, display and delete historical, current and future data.

### FUTURE REQUIREMENTS

- The system should automatically get the Student Information from Artena.
- Develop interface design to look more professional .
- Testing buttons and system, validation for input fields
- Select placement and allocate student.
- Build query, search and reporting functionality .

### CURRENT STATUS OF THE SYSTEM

#### Interface Design

- System navigation plan and Interface design are created.

#### Database Design

- Conceptual model, Logical model and Physical model are created.
- Logical model of the database is shown in Figure - 2.

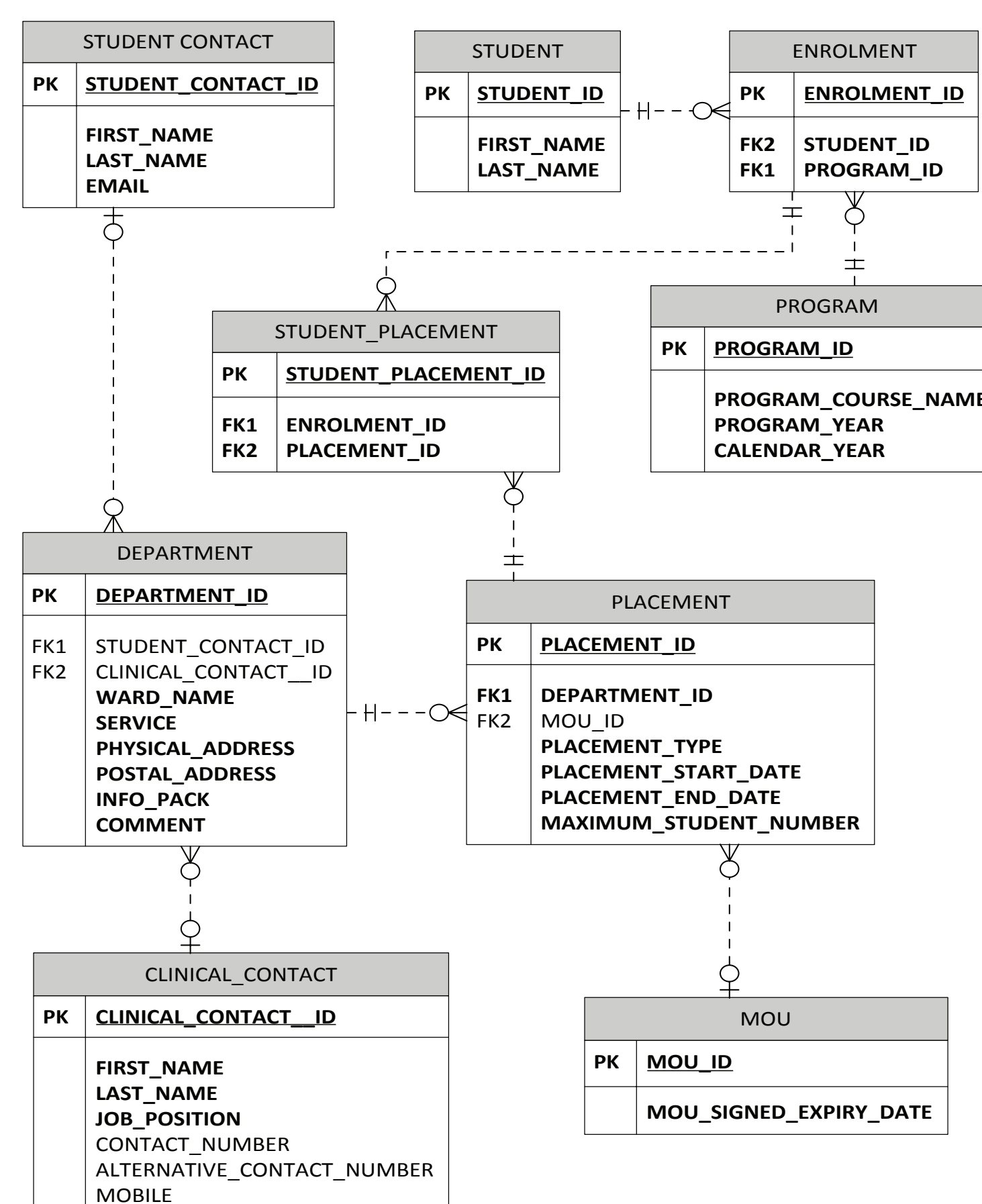


Figure – 2: Logical Model

#### Business Logic

Use Case diagrams, Activity diagrams and Class diagrams are created.

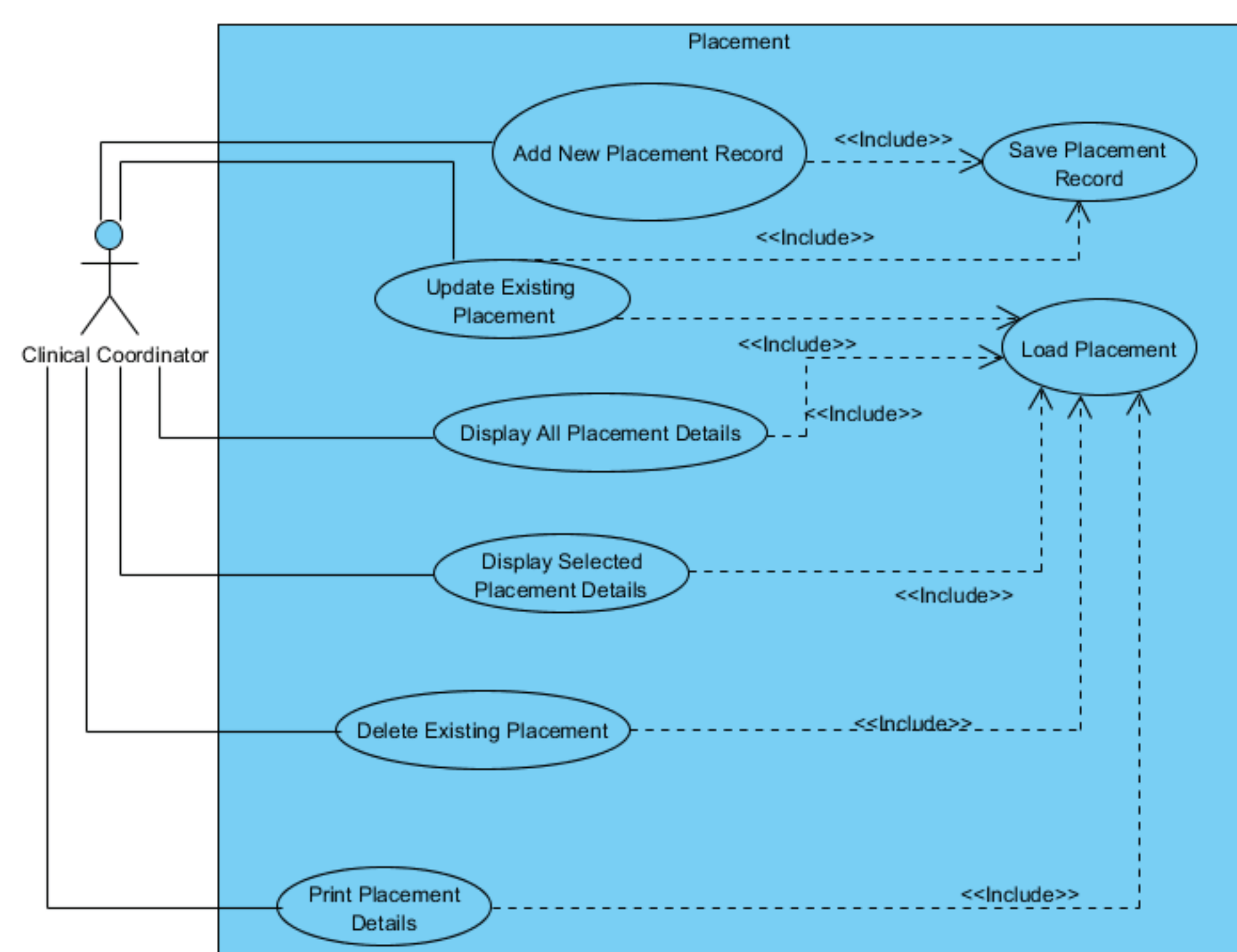


Figure - 3: Use Case Diagram for Placement

#### Prototype

- Prototype is developed in Visual Studio and it is connected to Microsoft SQL Server.
- Prototype performs the basic functions Add, Update, Delete and Display records.