



# King Fahd University of Petroleum and Minerals

College of Computer Sciences and Engineering CCSE  
Information and Computer Sciences Department

## Obesity Group Clinic

### Team B



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## Revision document History

Date	Version	Description	Author
11 <sup>th</sup> March 2011	1.0	Initial Vision Document	Shaeq
14 <sup>th</sup> March 2011	1.1i	Identifying errors in RED	Yasir, Sameer and Rakan
23 <sup>rd</sup> March 2011	1.1f	Final vision document	Rakan
1 <sup>st</sup> June 2011	1.2	Revised Vision document for final submission in term 102	Shaeq

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# Vision

## 1. Introduction

A Vision Document is a software process document that describes the overall 'vision', or plan, for a particular piece of software. It defines the stakeholder's view of the product to be developed, specified in terms of the stakeholder's key needs and features. Containing an outline of the envisioned core requirements, it provides the contractual basis for the more detailed technical requirements. It captures the "essence" of the solution in the form of high-level requirements and design constraints that give the reader an overview of the system to be developed from a behavioral requirements perspective.

### 1.1 Purpose

The purpose of this document is to collect, analyze, and define high-level needs and features of the *Obesity Group Clinic*. It focuses on the capabilities needed by the stakeholders, and the target users, and why these needs exist.

### 1.2 Scope

This vision document is for recording ideas that have come up for the *OGC*. We shall predict and analyze how we hope this system will be used in order to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops.

### 1.3 Definitions, Acronyms and Abbreviations

- SPMP – Software Project Management Plan
- SRS – Software Requirements Specification
- SDD – Software Design Document
- STD – Software Testing Documentation
- OGC – Obesity Group Clinic
- OGCT – Obesity Group Clinic Health Team
- OGCS – Obesity Group Clinic System
- OGCC – Obesity Group Clinic Committee

- SAMSO – Saudi Aramco Medical Services Organization
- BOI – Bank of Ideas

#### 1.4 References

Author/Title	Publisher/Year	Description
Kathy Schwalbe/ Information Technology Project Management	Course Technology, CENGAGE Learning / 2007	Course Textbook
IEEE Standard for Software Project Management Plans	The Institute of Electrical and Electronics Engineers, Inc. / 1998	IEEE Std 1058-1998

#### 1.5 Overview

The rest of the document discusses the following sections –

2. Positioning
3. Stakeholder and User Descriptions
4. Product Overview
5. Product Features
6. Constraints
7. Quality Ranges
8. Precedence and Priority
9. Other Product Requirements
10. Documentation Requirements
11. Appendix 1 - Feature Attributes

## 2. Positioning

### 2.1 Business Opportunity

The Aramco hospital has recently opened a support group for obese patients. The health team for the support group requires a system that will help them to record information about patients, suggest achievable weight loss practices and generate reports. This support group is the first to digitize their data and use a system to make better choices for patients. The Eastern Province has over 40 hospitals and to our knowledge, none of them have a support group for obese patients that use a systematic approach using computing. We aim to bring an increase in the number of patients who benefit from this system by getting proper feedback through the *OGCT* and make informed decisions to choose their goals to help them lose weight.

### 2.2 Problem Statement

The problem of	Currently, the <i>OGCT</i> records information on paper or uses simple tools like Microsoft Excel and relies solely on remembering themselves on when to follow up with patients. The way goals are assigned to patients is entirely dependent on the <i>OGCT</i> 's decision.
Affects	This affects the professionalism and consistency of the <i>OGCT</i> .
The impact of which is	This may be one of the factors to explain the high dropout rate from the support group.
A successful solution would be	After implementation of this system, the <i>OGCT</i> would be able to keep online records of all patient information and history. The system will suggest goal(s) to the <i>OGCT</i> for patients. This will help <i>OGCT</i> to set more realistic goals for patients and ensure their success.

## 2.3 Product Position Statement

For	Hospitals with support groups for obese people
Who	Currently, no hospital in the Eastern Province in KSA employs the use of systems for determining most appropriate goals for Obesity health groups.
The (product name)	<i>OGCS</i> [Obesity Group Clinic System]
That	This system will help the patient and <i>OGCT</i> to make an informed and appropriate decision in selecting a goal for the patient.
Unlike	This system is not scheduling software because it provides more flexibility to <i>OGCT</i> to customize goals from the database for every individual patient.
Our product	This system is a database system that makes suggestions to the health team in deciding most probable goal for individual patients that can be achieved.

## 3. Stakeholder and User Descriptions

### Stakeholders

*Organizations* – KFUPM, Aramco

*Individuals or groups* - Obesity Group Clinic [Aramco Hospital], Dr. Essam as project sponsor, iDhahran project team, the patients, Dr. Sajjad, College of Computer Sciences and Engineering at KFUPM

### Users

*OGCT*, patients



### 3.1 Market Demographics

With this project we want people to realize the importance of making informed decisions with the help of a computer system. Saudi Arabia is seeing obesity as a growing problem and not much is being done to solve it. A lot people have taken surgical procedures as the only solution to weight loss. With this system we aim to provide patients with a successful and natural choice. As obesity increases, we predict a rise in similar support groups that will be started by hospitals in the Eastern Province and we aim to provide them with a tested and successful system.

This is the first time iDhahran is developing a system of this kind. We vision the product to be component based so that code can be reused to develop similar systems in the future for other hospitals with obesity groups. This project gives us the satisfaction that we are making a difference in the lives of people by suggesting them with healthy habits and in a way enhancing their life span.

### 3.2 Stakeholder Summary

Name	Represents	Role
Obesity Group Clinic [Aramco Hospital]	Our primary customer	To provide us with their vision of the system and provide the project team with requirements and expectations of the system
Dr. Essam as project sponsor	Point of contact between the OGC and project team	Interviews and presentations are held with Dr. Essam and he provides a collective feedback to the project team
Patients	People who will majorly decide the success or failure of the system.	Present some constraints such as making the system bi-lingual [English, Arabic]

	These are people who will be using the system to monitor their progress for weight loss activities.	and will eventually be the people who are affected by the system.
iDhahran	The development team for the OGC system	Gathering requirements, designing the system, implementation and deployment.
Dr. Sajjad Mahmood	To monitor and approve the development team's progress with the system	Providing feedback and improvements that can be made to the system
College of Computer Sciences and Engineering, KFUPM	Owner of the system	After completion, the system's code ownership belongs to the College. This is to ensure that the project sponsor does not use the code for commercial purposes

### 3.3 User Summary

Name	Description	Stakeholder
<i>OGCT members</i>	Primary end user of the system	A part of the Obesity Group Clinic [Aramco Hospital]
Patients	These are people who will be using the system to monitor their progress for weight loss activities.	A part of the Obesity Group Clinic [Aramco Hospital]

### 3.4 User Environment

The users of the OGC System will be inside a clinic building with Internet connection. The patients using the system might be at home, office or even accessing the system from mobile devices.

Currently the team uses Microsoft Excel to store patient information. They have also uploaded a set of goals onto the Aramco hospital website where patients can visit and view goals and select one.

### 3.5 Stakeholder Profiles

#### 3.5.1 Obesity Group Clinic Team

<b>Representative</b>	Dr. Essam Jalal
<b>Description</b>	Our primary customer who will be using the system
<b>Type</b>	No experience with using a similar system. Most of them are technology competent but will need training to use the system efficiently.
<b>Responsibilities</b>	Appropriate usage of the system to benefit patients
<b>Success Criteria</b>	Increase in number of patients choosing to stay with the program over seeking surgical alternatives.
<b>Involvement</b>	Major source of requirements elicitation
<b>Deliverables</b>	Online tutorials and user manuals
<b>Comments / Issues</b>	

#### 3.5.2 Dr. Essam

<b>Representative</b>	
<b>Description</b>	He is the point of contact between the project team and the OGC
<b>Type</b>	No experience with using a similar system. Technology competent

	but will need training to use the system efficiently.
<b>Responsibilities</b>	Will overlook the <i>OGCT</i> and deal with patients himself
<b>Success Criteria</b>	Increase in number of patients choosing to stay with the program over seeking surgical alternatives.
<b>Involvement</b>	Major source of information for requirements elicitation
<b>Deliverables</b>	The system itself, Online tutorials and user manuals
<b>Comments / Issues</b>	

### 3.5.3 Patients

<b>Representative</b>	Dr. Essam Jalal
<b>Description</b>	Is our major stakeholder. Decides the future success or failure of the system. These are people who will be using the system to monitor their progress for weight loss activities.
<b>Type</b>	Has no direct interaction with the system but is the only one who is going to be affected by it
<b>Responsibilities</b>	
<b>Success Criteria</b>	Increase in number of patients choosing to stay with the program over seeking surgical alternatives.
<b>Involvement</b>	Minor source of information for requirements elicitation
<b>Deliverables</b>	
<b>Comments / Issues</b>	

### 3.5.4 iDhahran

<b>Representative</b>	The team leader
<b>Description</b>	Development team of the system
<b>Type</b>	Technical expertise in developing systems

<b>Responsibilities</b>	Gathering Requirements, Designing the system, Implementation and Deployment and documentation
<b>Success Criteria</b>	Satisfaction of users in terms of their usage of the system and increase in number of patients choosing to stay with the program over seeking surgical alternatives.
<b>Involvement</b>	The creators of the system, gathering Requirements, Designing the system, Implementation and Deployment
<b>Deliverables</b>	Ideas and requirements from the <i>OGCT</i>
<b>Comments / Issues</b>	

### 3.5.5 Dr. Sajjad Mahmood

<b>Representative</b>	
<b>Description</b>	In charge of collecting documentation from the project team, making sure project is on time and consultant to the project for new ideas and better solutions
<b>Type</b>	Guru of technical and software systems development, the development team's mentor and guidance
<b>Responsibilities</b>	Provide feedback to group discussions and ideas
<b>Success Criteria</b>	Completion of the system and successful deployment
<b>Involvement</b>	In charge of collecting documentation from the project team, making sure project is on time and consultant to the project for new ideas and better solutions
<b>Deliverables</b>	Weekly deliverables [adjustable frequency] are delivered by the development team to record progress
<b>Comments / Issues</b>	

### 3.5.6 College of Computer Sciences and Engineering, KFUPM

<b>Representative</b>	Dr. Sajjad Mahmood
<b>Description</b>	Is owner of the system to be developed
<b>Type</b>	Guru in technical aspects and have taken responsibility of completion of thousands of student projects to date.
<b>Responsibilities</b>	Supervising the overall project and to ensure the integrity of the entire team.
<b>Success Criteria</b>	Completion of the system and successful deployment
<b>Involvement</b>	Ensuring project manager has the system development on schedule
<b>Deliverables</b>	The final system
<b>Comments / Issues</b>	

## 3.6 User Profiles

This section describes each unique user of the system and their attributes in regards to the system. A through profile should cover the following topics for each type of user:

### 3.6.1 Patient

<b>Representative</b>	Dr. Essam Jalal
<b>Description</b>	These are people who will be using the system to monitor their progress for weight loss activities.
<b>Type</b>	May or may not be aware of how to deal with technology. Might have difficulty accessing the website and entering data.
<b>Responsibilities</b>	Adding patient's profiles, monitoring their progress and adding more goals to the BOI, as well as creating new OGCT member profiles.
<b>Success Criteria</b>	The success is completely defined by the customers continuing business with using our system.
<b>Involvement</b>	We will have sample customers to help evaluate our design.

<b>Deliverables</b>	The OGCS
<b>Comments / Issues</b>	

### 3.6.2 OGCT

<b>Representative</b>	Dr. Essam Jalal
<b>Description</b>	Individual that will use the system to profile patients and monitor their progress, as well as creating new OGCT member profiles.
<b>Type</b>	This is a casual user, possibly with previous use of similar patient's record system
<b>Responsibilities</b>	Adding patient's profiles, monitoring their progress and adding more goals to the BOI, as well as creating new OGCT member profiles.
<b>Success Criteria</b>	The success is defined by user's satisfaction and proper follow up from the reports generated using the system.
<b>Involvement</b>	
<b>Deliverables</b>	The OGCS
<b>Comments / Issues</b>	

### 3.7 Key Stakeholder / User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Secured access	High	Management of private patients information	None	Manage user access with PIN numbers and encryption
Scalable	Moderate	None	None	Allow ample number of access channels for end users
Profiling of patients	High	Mixing patient's profiles	Paper forms	E-profiling of patients information
Monitoring patient's progress	High	Mixing patient's profiles	Paper forms	E-profiling of patients progress
Easy to use	High	Ability to provide complex operations with simple user interface	None	Provide user friendly, highly intuitive, help guided navigation in application
Flexible	High	Ability to provide a truly customized user experience	None	Provide a simple, yet robust, ability for the end user to customize the goals to match every patient's goals
Instant	Moderate to High	Ability to provide live feedback from the database	None	Use an appropriate tool to provide live feedbacks of the most recent activities

### 3.8 Alternatives and Competition

Not Applicable



#### **4. Product Overview**

This section provides a high level view of the product capabilities, interfaces to other applications, and systems configurations.

##### **4.1 Product Perspective**

The clinic will develop its own database independent of ARAMCO's SAP system.

## 4.2 Summary of Capabilities

### Obesity Group Clinic System (OGCS)

Customer Benefit	Supporting Features
The health team can easily manage patients' profiles in the system.	Patients Profile Management feature will allow the health team to create, modify, activate, delete and search for a patient's profile.
Health team profiles will be managed in the system effectively.	Health Team Profile Management feature will allow the system administrator who is one of the doctors in the health team to manage the health team profiles.
The health team and the patient will be able to get reminders of the follow-up time.	Obesity Group Clinic System (OGCS) will have Follow-up Reminders feature that will be used to notify the OGC health team and the patient with an e-mail to the patient with the reminder to fill up the self-evaluation form.
The health team will be able to view the goals that are suitable for certain patient.	Obesity Group Clinic System (OGCS) will have Goals Suggestion feature that will be able to suggest appropriate goals to the patient.
The health team will have the ability to manage goals that will be stored in the bank of idea (BOI)	Obesity Group Clinic System (OGCS) will have Goals Management feature that will be used by the health team to add new goals to the bank of idea (BOI), and the health team will be able to modify them to suit patient's preferences but the goals in the (BOI) will not change, instead the modified goals will be stored the patient's profile.

The health team will be able to generate different number of reports that can be used to track the progress of the patients and the effectiveness of the goals.	Obesity Group Clinic System (OGCS) will have Report Management feature that will allow the generation of different reports based on different criteria.
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#### 4.3 Assumptions and Dependencies

- The *OGCT* have adequate knowledge of using computers and web-based application.
- The *OGCT* speak English, since most of the (*OGCS*) user interface will be provided in English.
- The goals that will be stored in the bank of idea (*BOI*) will be in English/Arabic.
- The Obesity Group Clinic System (*OGCS*) will have a system administrator who will be one of the doctors.

Open source software and tools will be used to implement the Obesity Group Clinic System (*OGCS*).

#### 4.4 Cost and Pricing

N/A; since open source software and tools will be used to implement the (*OGCS*).

#### 4.5 Licensing and Installation

The *OGCS* will be installed and deployed on our server for testing purposes, and if the sponsor, Dr. Essam, decided to use the system, then the customer can install the system on their sever following the installation manual that will be written by our team.

## **5. Product Features**

### **5.1 Patient Profile Management**

Patients Profile Management feature will allow the health team to create, modify, activate, delete and search for a patient's profile.

### **5.2 Health Team Profile Management**

Health Team Profile Management feature will allow the system administrator who is one of the doctors in the health team to manage the health team profiles.

### **5.3 Follow-up Reminders**

Obesity Group Clinic System (OGCS) will have Follow-up Reminders feature that will be used to notify the OGC health team and the patient with an e-mail to the patient with the reminder to fill up the self-evaluation form.

### **5.4 Goals Management**

Obesity Group Clinic System (OGCS) will have Goals Management feature that will be used by the health team to add new goals to the bank of idea (BOI), and the health team will be able to modify them to suit patient's preferences but the goals in the (BOI) will not change, instead the modified goals will be stored the patient's profile.

### **5.5 Goals Suggestion**

Obesity Group Clinic System (OGCS) will have Goals Suggestion feature that will be able to suggest appropriate goals to the patient.

### **5.6 Reports Management**

This feature will help the health team to track the progress of the patients and it will generate different reports such as:

- Patient progress report

- Most chosen behavior goals report
- Most achievable goals report
- Most successful goals report
- Number of chosen goals and relation to outcome report
- Dietary vs. PA goals and outcome report
- Emotional rating and outcome report
- Emotional rating and number of chosen goals report

## 6. Constraints

- The project will be completed within one year.
- Our team members are undergraduate students so over the course of one year we shall have other commitments with courses and these needs to be considered when assigning tasks for the project work.

## 7. Quality Ranges

- **Usability:** The Obesity Group Clinic System should be usable so that the health team can finish their tasks easily and effectively.
- **Deployment:** The Obesity Group Clinic System should be easy to deploy when following the installation and deployment manual.
- **Secured access:** The Obesity Group Clinic System should manage user access with PIN numbers and encryption
- **Scalable:** The Obesity Group Clinic System should allow ample number of access channels for end users
- **Easy to use:** The Obesity Group Clinic System should provide user friendly, highly intuitive, help guided navigation in application
- **Flexible:** The Obesity Group Clinic System should provide a simple, yet robust, ability for the end user to customize the goals to match every patient's goals
- **Instant:** The development team should use an appropriate tool to provide live feedbacks of the most recent activities

## 8. Precedence and Priority

The Obesity Group Clinic System OGCS features are listed and prioritized below (1: min, 5: max)

System Feature	Priority
Goals Management	5
Goals Suggestion	4
Reports Management	3
Follow-up Reminders	2
Patient Profile Management	3
Health Team Profile Management	2

## 9. Other Product Requirements

### 9.1 Applicable Standards

The system will be developed mainly using open source development packages and tools. For the development languages the development team will use:

- php
- JavaScript
- HTML & css
- MySQL for database

The development tools used will be licensed for academic uses, such as Enterprise Architect that is used for developing UML diagrams. Also, XAMPP which is a free open source web server package is used too.

For all the specified development packages and tools the development team will adhere to the standards that are specified.

## **9.2 System Requirements**

- The operating system hosting the OGCS should be Windows XP, Windows 7 or Mac OSX.
- Since the system is going to be a web application, the hosting computer must have a web browser already installed.
- The OGCS should have its own database.
- The OGCS should be hosted on a web server.

The system is accessed via LAN in the clinic and it can be accessed remotely via wireless network from inside the Aramco society.

## **9.3 Performance Requirements**

The OGCT member should be able to add one patient at a time so that he won't be confused or misplace some information that belongs to two different patients. Also, whenever a user is querying the database he should receive the right results during the least amount of time.

When the OGCT member is using the system he is expected to commit some mistakes. The OGCS is expected to recover from and handle these mistakes.

## **9.4 Environmental Requirements**

The working environment should accommodate the regular physical requirements of any computer, for example temperature, electricity, etc.

The OGCS usage should be designed in a way that it should accommodate the background of the OGCT. The usage should not extremely defer from the systems used regularly in hospitals. Also, the user may commit mistakes that might lead to some kind of failure; these actions must be handled accurately by the OGCS and whatever data that the OGCT needs should be recovered accurately.

The OGCS might require maintenance processes to enhance the performance of the system or to solve system failures that results when performing certain tasks.

## **10. Documentation Requirements**

### **10.1 User Manual**

The purpose of the user manual is to guide the OGCT member on how to use the OGCS in way to achieve the required tasks. The user guide is going to be brief because the users of the system are familiar using similar systems of this type.

The user manual will be divided into sections. Each section will describe how to use every capability in a step-by-step procedure and screenshots will be provided so that the OGCT can check if what he was doing was correct or not.

### **10.2 On-line Help**

An on-line help manual might be provided because it depends if the development team would have enough time to produce it.

### **10.3 Installation Guides, Configuration, Read Me File**

#### *a) Installation Guide & Configuration*

This document provides guidance on how to deploy the OGCS and what accompanying software packages should be installed to fully deploy the system. Also, the document includes what kind of hardware should be acquired to host the system.

The document will contain a deployment plan describing what the responsibilities are and how long it should take to fully install the system.

#### *b) Read Me file*

This file is a light version of the installation guide. It contains information about the version number, other files in the directory and what are the steps to complete installing the system. It might also include information about what's new in the system and what are the bugs that the user might encounter.



#### 10.4 Labeling and Packaging

The packages that will be produced during the development lifecycle will contain either an attached logo of iDhahran and labels indicating who participated and worked on it (development team), or it might only contain the names of the people who authored it (such as source codes).

This procedure is to protect the rights of the development team so that whatever they produce will be credited to them.

### 11. Appendix 1 - Feature Attributes

#### 11.1 Status

Proposed	Voice recognition. OGCT profiles management. Assigning OGCT members to patients. Random follow up.
Approved	Patient Profile Management. Health Team Profile Management. Follow-up Reminders. Goals Management. Goals Suggestion. Reports Management.
Incorporated	None at this point.

## 11.2 Benefit

Critical	<ol style="list-style-type: none"> <li>1. Patient Profile Management</li> <li>2. Health Team Profile Management</li> <li>3. Follow-up Reminders</li> <li>4. Reports Management</li> <li>5. Goals Management</li> <li>6. Goals suggestion</li> </ol>
Important	
Useful	Sms reminders to patients and OGCT members for follow up on scoring their activities

## 11.3 Effort

This section will be updated as we move on in this project during the implementation phase since till now we do not have a clear vision about the implementation aspect of the system.

## 11.4 Risk

Risk type	Risk probability
Schedule delay	Mostly none since we have fixed date for each milestone
Cost overrun	Not applicable
One of the member drop out	Very low
The system is not accepted	We will have a demo and also frequently acceptance testing to avoid that. So, it is very low almost zero.

### 11.5 Stability

The system functionalities have gone through changes twice. We have updated all related documents and created an up to date prototype so far. Further changes made to functionalities are intended to be recorded in documentation.

### 11.6 Target Release

There should be two releases of the system. The first is the beta version which be released at the end of the current semester (June 2011). The final release should take place at the end of the next semester. Upgrades to the system should be made in between.

### 11.7 Assigned To

The work for this project will be team-based. For each phase and submission the whole team set together and starts discussing the work distribution. If there is something needed to be done within the group it must be done. Otherwise the team leader will start distributing the tasks according to each member capability. For the coming phases such as SRS and SDD the work will be done in-group to ensure consistency.

### 11.8 Reason

Capability	Reason
Patient Profile Management	Patients Profile Management feature will allow the health team to create, modify, activate, delete and search for a patient's profile.
Health Team Profile Management	Health Team Profile Management feature will allow the system administrator who is one of the doctors in the health team to manage the health team profiles.
Follow-up Reminders	Obesity Group Clinic System (OGCS) will have Follow-up Reminders feature that will be used to notify the OGC

	health team and the patient with an e-mail to the patient with the reminder to fill up the self-evaluation form.
Reports Management	Obesity Group Clinic System (OGCS) will have Report Management feature that will allow the generation of different reports based on different criteria.
Goals Management	Obesity Group Clinic System (OGCS) will have Goals Management feature that will be used by the health team to add new goals to the bank of idea (BOI), and the health team will be able to modify them to suit patient's preferences but the goals in the (BOI) will not change, instead the modified goals will be stored the patient's profile.
Goals Suggestions	Obesity Group Clinic System (OGCS) will have Goals Suggestion feature that will be able to suggest appropriate goals to the patient.