## **Introduction**

### Purpose of this document

This document gives description of requirements, constrains, interface to other systems, supports for the content management system (CMS). It also includes the COTS acquisition plan with time table for the CMS.

This document is primarily intended to be proposed to a customer for its approval and a reference for developing the first version of the system for the development team.

### Scope of this document

Describes the scope of this requirements definition effort. Introduces the requirements elicitation team, including users, customers, system engineers, and developers. This section also details any constraints that were placed upon the requirements elicitation process, such as schedules, costs, or the software engineering environment used to develop requirements

Elicitation team for this project is group 3 which includes:

* Phan Thế Hùng
* Đặng Thị Thảo My
* Bùi Nguyễn Thiện Khánh
* Nguyễn Anh Quân

Customers of this system are the cybercation café’s owners which includes:

* A barista
* An administrator
* An online game enthusiast
* A sale person
* A computer engineer

This CMS will be developed and tested on group 3 computer. After the CMS has been approved by the Cybercation café owners, it will be depolyed on an apache web server.

### **Overview**

Provides a brief overview of the product defined as a result of the requirements elicitation process

### Business Context

Provides an overview of the business organization sponsoring the development of this product. This overview should include the business's mission statement and its organizational objectives or goals

The sponsor for this project is the Cybercation café. They are a group of five people who want to create a new business café model. Beside from original café model, the Cybercaion café also provides other services such as:

* E-learning packages for industry certification
* Testing for industru certification
* Training/conference room for hire
* Photocopy/scanning services
* Graphic design and print
* Web server and hosting

The Cybercation café is a newly establish business. They are going to open the first shop in Ho Chi Minh city and the second one in Ha Noi. That also want to implement a customer loyalty program and will invest in technology to archive these following goals:

1. To provide Internet services, E-Learning, testing, graphic... throughout the Asian region that are of top quality, reliability
2. To provide technological feature, to achieve strategic goal (1) (\*).
3. To encourage and prepare our human resources team to enhance their knowledge and skills within each featured context.
4. To increase growth and development through business expansion
5. To make use of information technology to achieve our goals, objectives, and CSFs and to add value to the business Value Chain and Supply Chain
6. To grow the business by attracting regular business customers who can easily access our services in all our locations through a customer loyalty system.
7. To maintain profitability and build a consolidated fund to use for expansion costs

## **General Description**

### User Problem Statement

This section describes the essential problem(s) currently confronted by the user group.

Our customers are facing 3 problems corresponding to 3 solutions which we suggested

1. The Cybercation café needs a CRM system which allows them to receive request, feedback from their customers. In addition, the system helps the Cybercation café to categorize and keep track of those requests, feedbacks as they are being processed. The system also includes online communicating function so that the business’ customer can receive real time guidance.
2. The Cybercation café needs a HRM system to manage and evaluate their human resource. As a result, they can prepare their training, recruiting, retiring plan better.
3. They need a CMS system to manage contents and operations on their official website in a quick and effective way. Furthermore, the system allows their customer to access their services anywhere, anytime.

### User Objectives

This section describes the set of objectives and requirements for the system from the user's perspective. It may include a "wish list" of desirable characteristics, along with more feasible solutions that are in line with the business objectives

* Set up a communicating channel between the Cybercation café and customer, provide real time support and guidance
* Establish and maintain good relationship to customer
* Make up an effective human resource strategy
* Manage employees, discover talented employee
* Promote Cybercation café brand and services
* Establishment of e-business (through the use of website) to make web-based bookings for Cybercation services, and search for locations where our Cybercation business are situated

### User Characteristics

Describes the features of the user community, including their expected expertise with software systems and the application domain

Users of suggested system are divided into 2 groups

1. Employees of Cybercation café:
   * Skillful users (trained by system provider)
   * Have good knowledge about their profession
   * Evaluated and trained due to Cybercation café policies
2. Customer of Cybercation café:
   * General users
   * Mostly young people (under 35 years old)
   * Willing to study
   * Familiar with the internet, website, social network, e-application although some users will need support
   * Prefer quick, convenient, simple actions to achieve their goals
   * Desire to study with minimum amount of money
   * Cosmopolitan

### Similar System Information

Describes the relationship of this solution with any other installed solutions (if any). Specifies if this solution is intended to be stand-alone, or else used as an integrated component of a solution product. If the latter, this section discusses the relationship of this product to the larger product

There is no installed solution in Cybercation café. All 3 suggested solution are stand-alone system.

### General Constraints

Lists general constraints placed upon the design team, including speed requirements, industry protocols, hardware platforms, and so forth

* The website must be adaptable to common protocols which provide internet connection and web service such as HTTP, HTTPS, TCP/IP, RESTFUL, etc…
* Response time of each system must less than 3 second
* Each system must be provided with recovery plan and warranty
* Hardware platform must be produced in 2010 or later

## **Functional Requirements by Application**

This section lists the functional requirements within each of the recommended applications in ranked order. Functional requirements describe the possible effects of a particular software system (such as an accounting system), in other words, *what* the system must accomplish. Other kinds of requirements (such as interface requirements, performance requirements, or reliability requirements) describe *how* the system accomplishes its functional requirements.

Functional requirements will be described in terms of ‘must’, ‘should’, ‘could’, or ‘ideally could’.

Each functional requirement should be specified in a format similar to the following…

### Functional Requirements of: <application 1>

#### Scope requirement for <application 1>

*What is impacted by this application? Describe how this application will address the needs identified. Describe interactions with other requirements*

#### **<Functional requirements within application 1)>**

“The application **must** ….”

*Describe what top level functions or modules the application must or should have*

<name of function or module>

##### “The … module must (or ‘should’, etc) be able to …”

Second-level (functions within the module):

* + - * 1. “This function must (or ‘should’, etc)…”
        2. “This function must (or ‘should’, etc)…”

### Functional Requirements of: <application 2>

#### Scope requirement for <application 2>

*What is impacted by this application? Describe how this application will address the needs identified. Describe interactions with other requirements*

#### **<Functional requirements within application 2)>**

“The application **must** ….”

*Describe what top level functions or modules the application must or should have*

<name of function or module>

##### “The … module must (or ‘should’, etc) be able to …”

Second-level (functions within the module):

* + - * 1. “This function must (or ‘should’, etc)…”
        2. “This function must (or ‘should’, etc)…”

### Functional Requirements of: content management system

#### **Scope requirement for content management system (CMS)**

Content management system is a web-based system which manages all operations on web server and contents of the official website of the company. All interactions between users and the CMS are processed through web interface.

The manager has all the authority to view, create, update and delete any content of the website. Customers can register an account for online study and testing services. All accesses and requests are verified and controlled by the CMS. At the end of month, the CMS will create a report about registered courses and services.

The CMS will also provide APIs which allow human resource department to upload announcements which relates to human resource activities such as recruitment, trainings, etc… to the website..

#### **Functional requirements within content management system**

The application must have 2 modules:

* Courses information maintaining and updating system
* Courses registering and participating system

##### **Courses information maintaining and updating module**

* + - * 1. Add a new course

Authorized people can add a new course which is provided by Cybercation café to the website through web interface

* + - * 1. View a course

Authorized people can view information of a course which is provided by Cybercation café on website through web interface

* + - * 1. Modify a course

Authorized people can modifies information of a course which is provided by Cybercation café on website through web interface

* + - * 1. Delete a course

Authorized people can delete a course which is provided by Cybercation café from website through web interface

* + - * 1. Add a new test

Authorized people can add a new test to website through web interface

* + - * 1. View test

Authorized people can view information of a test which is provided by Cybercation café to the website through web interface

* + - * 1. Modify a test

Authorized people can modifies information of a test which is provided by Cybercation café on website through web interface

* + - * 1. Delete a test

Authorized people can delete a test which is provided by Cybercation café from website through web interface

* + - * 1. Add a new user

Authorized people can add a new lower level user to user list through web interface

* + - * 1. View a user

Authorized people can view information of a lower level user to user list through web interface

* + - * 1. Modify a user

Authorized people can change information of a lower level user to user list through web interface

* + - * 1. Delete a user

Authorized people can delete a lower level user from user list through web interface

* + - * 1. Add a new announcement

Authorized people can add a new announcement to the website through web interface

* + - * 1. View an announcement

Authorized people can view information of an announcement through web interface

* + - * 1. Modify an announcement

Authorized people can modifies information of an announcement on the website through web interface

* + - * 1. Delete an announcement

Authorized people can delete an announcement from website from the website through web interface

* + - * 1. Add a new category

Authorized people can add a new category to category list through web interface

* + - * 1. View a category

Authorized people can view information of a category in category list through web interface

* + - * 1. Modify a category

Authorized people can modifies information of a category in category list through web interface

* + - * 1. Delete a category

Authorized people can delete a category in category list through web interface

##### **Courses registering and participating module**

* + - * 1. Registering

New customer can register a member account through web interface

* + - * 1. Enrolling courses

Members can enroll courses through web interface

* + - * 1. Taking test

Members can take tests through web interface

* + - * 1. Modifing personal information

Members can modifies their personal information through web interface

* + - * 1. Changing password

Members can change their password through web interface

* + - * 1. Login

Members can login to their account on the website

* + - * 1. Logout

Members can logout of their account

* + - * 1. Verifying user

The CMS can verify logined member and assign appropriate authority.

* + - * 1. View personal information

Members can view their personal information through web interface

* + - * 1. Monthly report

The CMS will record members’ activities such as courses and tests they take, theirs searching keywords. At the end of each month, the CMS will generate reports on those activities.

## **Interface Requirements**

### Interface Requirements of content management system

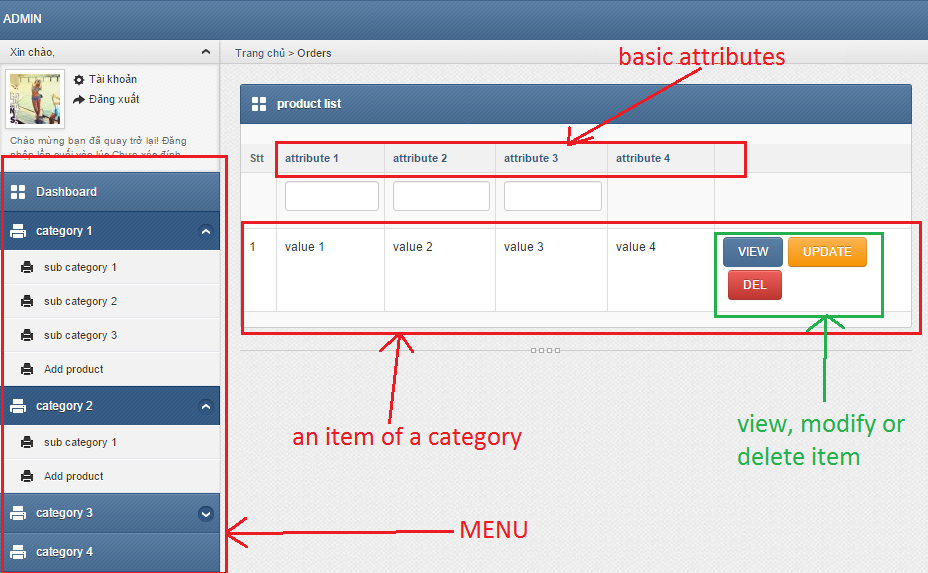
#### **Courses information maintaining and updating module**

##### **User Interfaces**

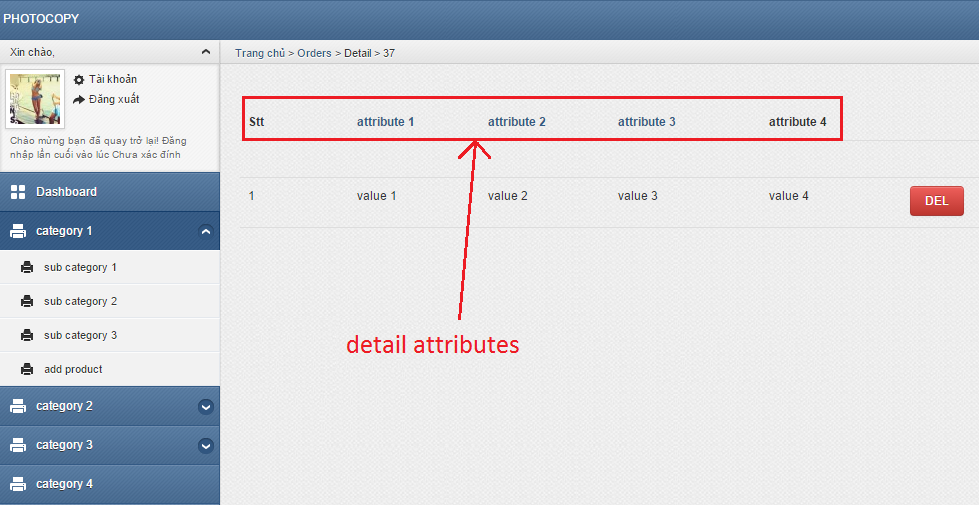
Interaction between users and course information maintaining nad updateing module will be processed through web interface

* + - * 1. **GUI**

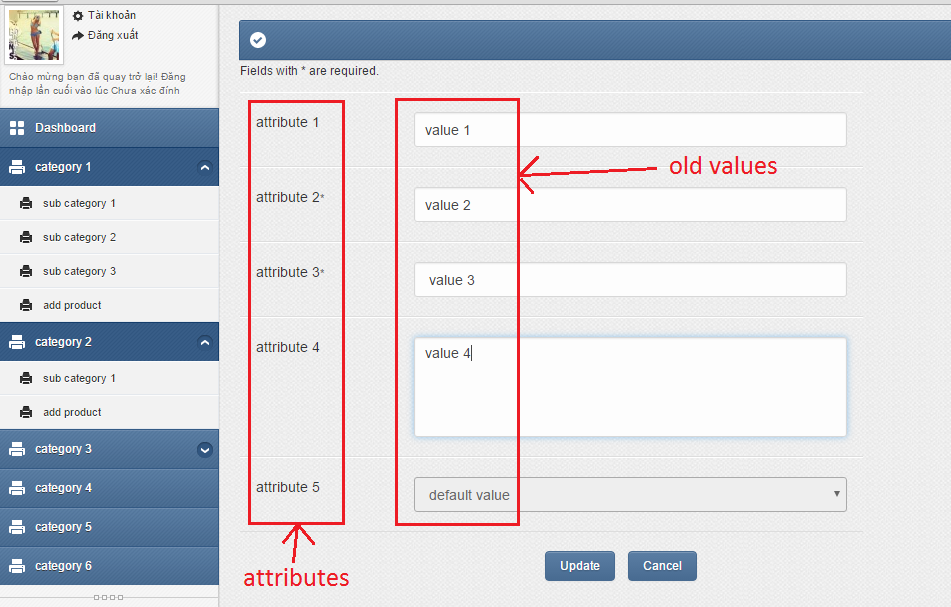
The course information maintaining nad updateing module will be menu-driven system which includes a left side menu. The menu includes categories and sub categories as the following picture:



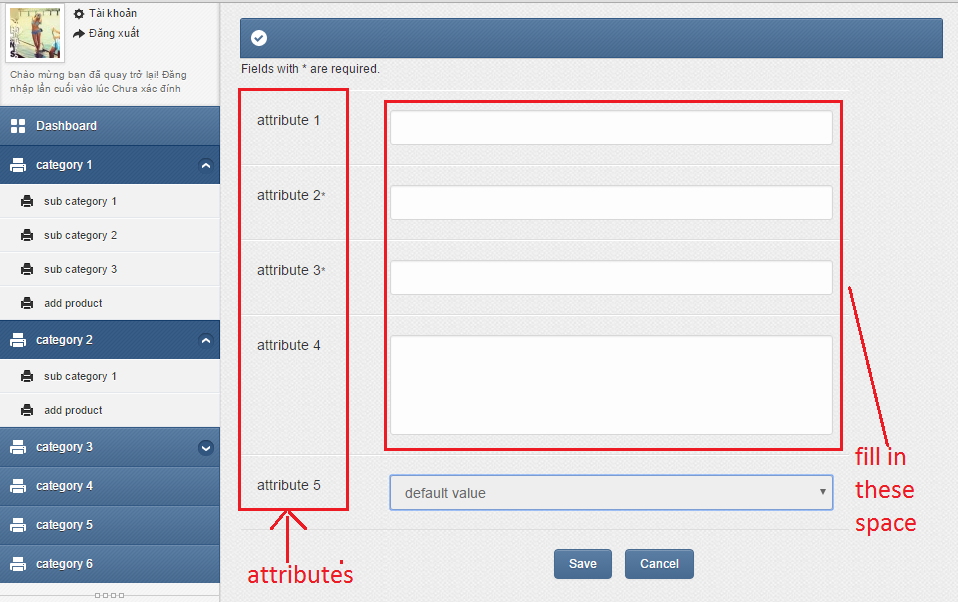
**View function interface (attribute change due to category )**

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**Modify function interface (attribute change due to category)**



**Create function interface (attribute change due to category)**



* + - * 1. **Ease of use**

- Minimun (no redunrdant), logical steps needed to process a task

- Consistent, simple layout (not too many components)

- Clear, readable, text font

- Understandable, informative, positive error message

- Guidance documentation

- Cross-brower support

- Informative icons, graphics.

* + - * 1. **Task match**

The course information maintaining and updateing module will be 100% match to all functional requirements

* + - * 1. **User support**
* System trainning
* Service desk support: 2
  + 4/7 through email
  + working hour from monday to Saturday throug phone
* data backup and recovery
  + - * 1. **Perceived consequences**

This module let manager know what information will appear on the website in a visual way. As a result, the manager can give a faster, more reliable and more effective decision about the website’s content.

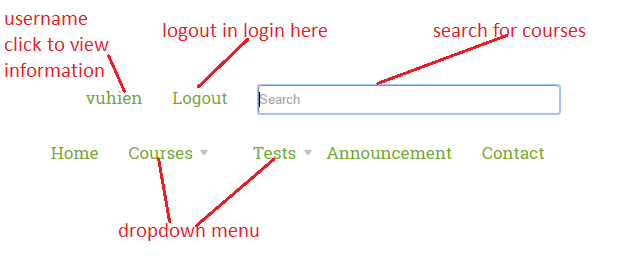
#### **Courses registering and participating module**

##### **User Interfaces**

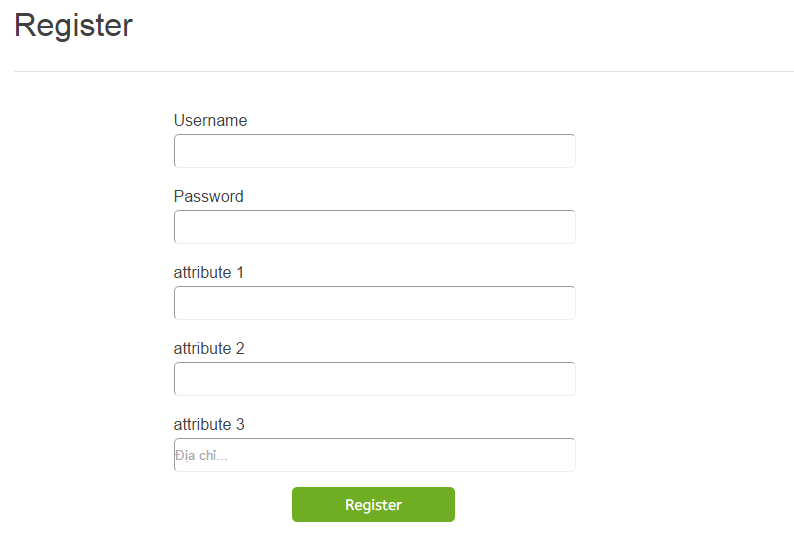
Interaction between users and course coursees registering and participating module will be processed through web interface

* + - * 1. **GUI**

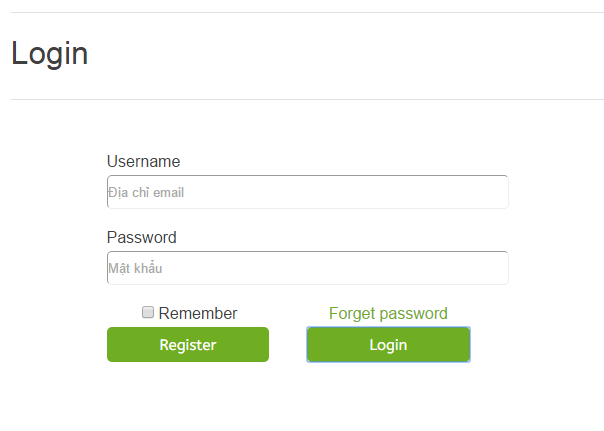
The course coursees registering and participating module will be menu-driven system. The menu includes categories and sub categories as the following picture



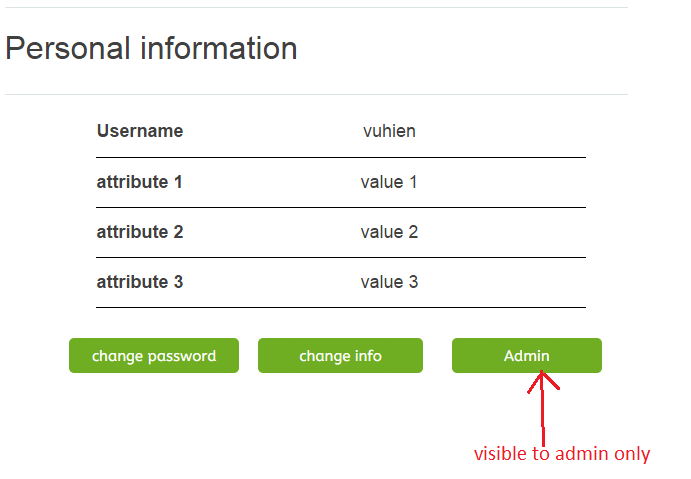
**Register interface**

****

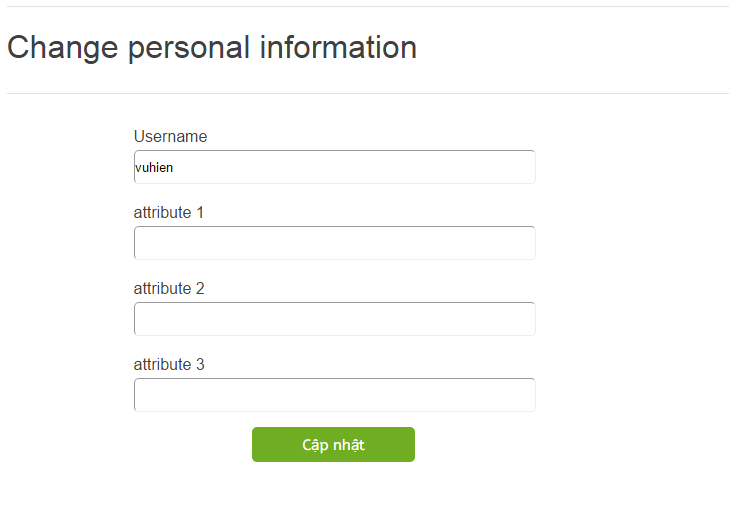
**Login interface**

****

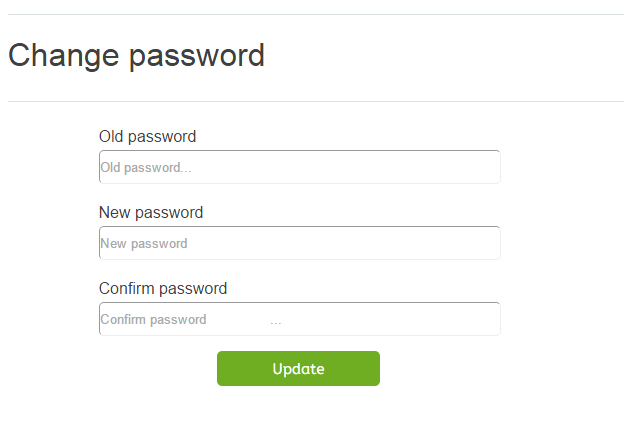
**Personal information interface**

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**Change personal information interface**

****

**Change password interface**

****

* + - * 1. **Ease of use**

- Minimun (no redunrdant), logical steps needed to process a task

- Consistent, simple layout (not too many components)

- Clear, readable, text font

- Understandable, informative, positive error message

- Guidance documentation

- Cross-brower support

- Informative icons, graphics.

* + - * 1. **TASK MATCH**

The course information maintaining and updateing module will be 100% match to all functional requirements

* + - * 1. **USER SUPPORT**
* System trainning
* Service desk support:
* 24/7 through email
* working hour from monday to Saturday throug phone
* data backup and recovery
  + - * 1. **PERCEIVED CONSEQUENCES**

The website will help to promote the business over the internet. Customer can access to the services at anywhere, anytime and the user interface is very easy to use, therefore, it helps to attract more customers and make them feel comfortable. The course coursees registering and participating module will automate and accelerate registering and courses participating processes and help users to find their desired courses.

## platform requirement

*Describes interfaces to and requirements for hardware devices*

### hardwares:

including peripherals (screens, printers, etc)

### Estimated capacities (CPU speed, memory size, online & offline storage).

* 1. **Operating System and Database Requirements**

### Networking, Internet, Communications Requirements

### Data Backup, Recovery

### Security (Virus Protection, Firewall)

## **Data Conversion**

The Cybercation café is a newly established business. Therefore, only basic information (such as offered courses, company location, etc… ) will need to be import manually to the system

## **Other non-functional Requirements**

Specifies any other particular non-functional attributes required by the system. Examples are provided below.

### Security

### Reliability

### Maintainability

### Portability

### Application Compatibility

### Serviceability

### others as appropriate

**Note: You need NOT complete this section – it is for your information only. Simply remove it**

1. **Preliminary Schedule**

This section provides an initial version of the project plan, including the major tasks to be accomplished, their interdependencies, and their tentative start/stop dates

**Note: Use a Gantt Chart**.

1. **Preliminary Budget**

This section provides an initial budget for the project, itemized by cost factor.

**Note: Keep this section simple, just a cost guesstimate by major component (software, hardware, network, support, training).**

**References**  
Provides complete citations to all documents and meetings referenced or used in the preparation of this document.

**Appendices**

Specifies other useful information for understanding the requirements. All SRS documents should include at least the following two appendices:

**A: Recommended application supporting information/ documents**

**B: Minutes of JAD meetings**