



Draft List of Requirements for Software Projects (Fall 2009)

Draft List of Requirements for E-Marketing System

The following are the core requirements of Project E-Marketing System.

“e-Marketing is the marketing of products, or, services over the Internet.” – (Wikipedia)

The e-Marketing System will help stakeholders in achieving business goals through the online marketing based on emails and short messaging service (SMS). The main features will be Scheduled Campaigns/Packages, Bulk Emails, Email Lists (add, update, delete), Get orders, Autoreply/Autoresponder, Bulk SMS Feature, Tracking of Emails, Import/Export Contact Lists, Event Logging

- Registration and approval of companies via the main web site.
- List of all packages and their details available online on the main site, to choose from. Ability to introduce new packages and publishing on the main site.
- Get orders from the companies/organizations for the customized email marketing packages, approve orders and start the campaigns (sending emails & sms) as per client's requirement/order. When a customer places a new order, autoreply feature should inform customer about any further post-order information.
- Ability to create/update contact lists (email/sms) for sending bulk email/bulk SMS. Should support import/export from the common format such as MS Excel, CSV (comma separated format) etc ...
- Bulk Email, Bulk SMS on the fly. Summary of the bulk operation after its completion (complete, pending, errors if any ...), Should support the scheduled campaigns to send automatic bulk E-mail/bulk SMS as per client's requirement.
- The system should be able to track bulk E-mails e.g. Bounce rate, Tracking Clicked Links in the Content of E-mails.
- Event logging must be provided to track the integrity of the operations. Any error situations should be informed via email to the administrator.

Application Type: WIN OR WEB



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Draft List of Requirements for Smart Client Score Board

The following are the core requirements of Project Smart Client Score Board.

This smart client application will facilitate the user with a desktop mini score board for the user's favorite sports (e.g. Football OR Cricket). The application will display the latest score/commentary for a live match for the user. The application will have the offline data in the form of player profiles, and complete match results/stats, fixtures etc. The user will be able to switch the application online and offline according to choice.

- Displaying live scores/commentary/stats of a running (live) match. This information should be fetched from a web site that is supporting its content to be used by the application. Should support any one of two major games (e.g. Football/Cricket).
- Offline record for the players (Player Profile), match results, stats, fixtures
- Comparison graphs should be provided for comparing players and comparing teams
- Application should download and keep offline record of latest scheduled/fixtures
- The user shall be allowed to switch the application online/offline. However, application will always go online when starting for the first time after logging in windows.
- Notes should be provided to users, for the purpose of any note-able information for user. The notes should be provided in date/time wise order.
- Update (ad-on/patch etc) feature should be provided, the application should be developed in a pluggable way, so that any component or ad-on, developed later, can be provided as a simple online update without affecting the running and performance of the existing application.

Application Type: Smart Client Desktop Application



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Draft List of Requirements for General Ledger Management System (GLMS)

The following are the core requirements of Project General Ledger Management System (GLMS).

The general ledger is the main accounting record of a business which uses double-entry bookkeeping. It will usually include accounts for such items as current assets, fixed assets, liabilities, revenue and expense items, gains and losses. The general ledger is a collection of the group of accounts that supports the items shown in the major financial statements. It is built up by posting transactions recorded in the sales daybook, purchases daybook, cash book and general journals daybook. The general ledger can be supported by one or more subsidiary ledgers that provide details for accounts in the general ledger. For instance, an accounts receivable subsidiary ledger would contain a separate account for each credit customer, tracking that customer's balance separately. This subsidiary ledger would then be totaled and compared with its controlling account (in this case, Accounts Receivable) to ensure accuracy as part of the process of preparing a trial balance.

- Provision of Maintaining the Chart of Accounts
- Provision to post a double Entry by using the software.
- Provision to view the detail of transaction against any particular account
- Provision to create a new Cashbook
- Provision to make an entry in any already created Cashbook
- Provision to view or Print a Balance Sheet
- Provision to view or Print an Income Statement
- Provision to view or Print a Graph (Optional Feature)

Note: This is very brief feature list. To get the detail of any above mentioned feature for the project General Ledger Management System (GLMS), please contact your project supervisor.



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Draft List of Requirements for HOSPITAL MANAGEMENT SYSTEM (HMS)

The following are the core requirements of Project HOSPITAL MANAGEMENT SYSTEM (HMS).

Health care centers ranging from small hospitals to very large ones play an important part in saving lives of the people living in big cities as well as in far away villages. However almost all these hospitals don't have centrally controlled and well managed systems. Because of unavailability of such a system there is chaos in each department of a hospital. Especially neither current record of a patient is well managed nor is historical record of the patient easily accessible. This thing leads to face difficulty for consultants in advising a patient properly and efficiently.

- **Registration:** On the system the user are able to register according to its hierarchy, so that a username and password will be provided to the user in order to login to the system. The user database and records are maintained by the system and also you can add, update and delete the records from the system with proper privileges. (Depending of the user i.e. reception, doctors, stores, etc).
- **Patient Check In / Check Out:**
 - **For In-Patient (IPD):** If the new patient gets admitted to the system then a unique record is generated for each patient and patient details along with the room reservation and its case papers and other details will be stored in the system. And also room Allotment is taken care. Once patient gets a discharge then his check out from hospital along with the billing details will be taken care by the system.
 - **For Out-Patient (OPD):** If the new patient visits the Doctor in OPD, the system then generate a unique record for each patient and patient details along with its case papers and other details are stored in the system. Billing details are also taken care by the system.
- **Laboratory / Pathology Automation:** The system keeps track of the laboratories in the hospital. The system keeps track of the tests performed on different patients and its records will be maintained by the system.
- **Patient Record Maintenance:** The system maintains a detail record of each patient who will be admitted to the hospital. The patient case papers will be generated automatically and will be maintained in proper format. Whenever a regular patient will visit hospital his complete diagnosis chart along with case papers will be provided by the system. Also patient will be able to view his information and diagnosis details online by logging on to the system on the internet which will be of great help to patient as well as there family doctors.



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- **Staff Record Maintenance:** The system keeps track of the entire staff of the hospital. The details of each and every staff (User) will be maintained online and a username and password will be provided to concern users so that they can log on to the system and perform activities related to their concern department. Also a user with proper access and rights is provided and can add, delete and modify records of the existing users to the system.
- **Emergency Services:** There are some emergency services related to the hospital such as ambulance and organ donation, blood donation, etc. The system keeps track of all these activities online and will prepare detail reports of these activities.
- **Blood Bank Maintenance System:** The system keeps the track of blood bank. It will generate automated reports keeping track of inventory for stock of bloods for different blood group their Expiry. The system will make it much easier for the user to keep track of different activities in the blood bank.
- **Database of Blood Donors / Blood Group:** The system will maintain a detail database of different blood donors according to their blood group. When a need will arise for a certain group of blood donors then the system will produce name and other contact details of the blood donors related to that particular blood group. It will make it easier to contact them in emergency situation.
- **Billing System:** The entire billing system for the patient will be automatically created. It will include the expenses of all kind and in the end when the patient gets a discharge the entire bill will be generated automatically. The bill will contain all the expenses, which should be charged to the patient for the period for which he was admitted to the hospital. Out Patient Billing is also taken care-of



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Draft List of Requirements for Plagiarism Detector

[The following are the core requirements of Project Plagiarism Detector.](#)

Software will address the core issues of plagiarism. It will analyze, identify and quantify the given material to know about existence of plagiarism.

Software will be capable to determine the plagiarism based on the given policy by using search algorithms:-

Comparing the given file with another file provided to the system.

Compare the given sentence provided to locate within the given file/files.

Plagiarism detection program use search algorithms and show the result in matching percentage.

Acceptable File Types: MS Word (.DOC / .DOCX), PDF (.PDF), HTML (.HTM / .HTML), RTF (.RTF), and Plain Text (.TXT) as well images like JPG, JPEG.

- Re-check your current/corrected documents' or submit new ones.
- System will compare two files and show the statistics on the similarity of two documents
- Intense and In-depth plagiarism checking, as well as, multiple document comparison (Checking text and plagiarism across multiple submitted documents).
- Offline checking against books, articles, magazines, journals etc.
- Sentence structure checking to root out even the most subtle attempts at plagiarism. Length of string is editable.
- Files Type may be MS Word (.DOC / .DOCX), WordPerfect (.WPS), PostScript (.PS), PDF (.PDF), HTML (.HTM / .HTML), RTF (.RTF), and Plain Text (.TXT).
- System can compare Images like .JPG, JPEG etc. types.
- System will display result in percentage.



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Draft List of Requirements for POLICY INSURANCE MANAGEMENT SYSTEM

The following are the core requirements of Project POLICY INSURANCE MANAGEMENT SYSTEM.

This project will automate “Insurance Policy System.”

There are two main types of insurance policies

I. Life/Health Insurance.

II. General Insurance

For health insurance, Medical report will be required, issued by recommended Authority. Insurance Agent offers different type of Insurance policies. These policies can be adopted by an individual or organization. Client is bound to pay the premium as per given insurance policy. Area Manager supervises and control all the activities conducted by Insurance agent or other relevant persons. Clients can claim Insurance benefits as per his/her policy.

User Management System

- A new user registers by filling in a form on your web-site.
- User Management System manages all the users of the system i.e. Customer, Administrator or Agents.
- It keeps the track of the activities they performs, their data, their access information, etc.

Policy Management System

- Organization will define all insurance policies. Policies vary from person Policy renewals and policy cancellation can be managed by the insurance policy management system.

Accounts Receivable & Invoicing

- Supporting full suite of financial transactions and versatile invoicing capabilities.

Agents Commission & Statements

- Supporting associate Agents at the Policy level setup of commission due based on written premium, on invoicing or on premium payments and generating agent statements.

Claims Administration

- System will keep claim records & Loss Reserves, Financial Transactions and Claims Expense records

Reporting

- Supporting interface to external reporting tools, configured to work with Crystal Reports and automatically generation of policy forms based on policy products, coverage and policy transactions.
- The system shall provide online help, FAQ's customer support, and sitemap options for customer support.