

**2013**

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On-campus Health center Management System

Software Project Plan

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1. **Introduction:**

Health care is a basic amenity needed everywhere .On-campus where students and faculties reside away from their families; presence of medical attention becomes all the more necessary. VIT health center, lacking a centralized management system ,till date involves a lot of paper work & maintenance of manual records along with the absence of specialized treatment available for which the patients need to visit CMC. Our system, a web-based implementation of On-campus health center management software aims at removing the above loopholes.

1. **Project Overview:**

## Current System or Situation

The various problems faced by the people on-campus with respect to existing health center conditions are as follows:

* There are no proper verification mechanisms to verify the identity of a patient and establish his/her medical history.
* Hard copies of records are maintained which are prone to damage
* Specialized treatment and the required equipment are not available within campus.
* Many a times medicines are given post expiry date which is unacceptable and must be kept in check.
* Currently there is no tie-up with CMC and the patients especially students referred there have a hard time waiting in queues before they even get an appointment.
* There is no provision of health counseling for SAP.
* Poor awareness among students regarding current outbreaks.

## 2.2 Project Scope

On campus health center management system aims at automation of the following processes

* Diagnosis of disease
* Booking an appointment
* Maintaining e-health records
* Maintainenance of sanitation and food standards
* Medical history readily being available
* Referral to CMC
* Application for medical leave
* Health Counseling for SAP
* Awareness among students

## 2.3 Key Contacts and Stakeholders

* Students
* Faculty
* Staff
* Doctors
* Technician
* Admin

1. **Project Schedule**

## Major Project Milestones

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Milestone** | **Estimated Start Date** | **Estimated Completion Date** | **Estimated Hours** | **Number of Resources** | **Number of Days** |
| **Software Requirements Specification** | **18/1/2013** | **25/1/2013** | **48** | **3** | **8** |
| **Research and Tool Analysis** | **28/1/2013** | **4/2/2013** | **60** | **3** | **10** |
| **Project Specific Requirements** | **5/2/2013** | **8/2/2013** | **60** | **3** | **10** |
| **Design Back-end** | **11/2/2013** | **13/2/2013** | **120** | **3** | **20** |
| **Design Front-end** | **14/2/2013** | **20/2/2013** | **60** | **3** | **10** |
| **Development of front end and back end** | **20/2/2013** | **19/3/2013** | **30** | **3** | **5** |
| **Unit Testing** | **18/3/2013** | **25/3/2013** | **30** | **3** | **5** |
| **Integration Testing** | **26/3/2013** | **5/4/2013** | **12** | **3** | **0.5** |
| **Final Debugging & Testing** | **8/4/2013** | **12/4/2013** | **30** | **3** | **5** |
| **Review and complete documentation** | **15/4/2013** | **23/4/2013** | **12** | **3** | **0.5** |
| **Hosting and maintenance** | **24/4/2013** | **24/4/2013** | **12** | **3** | **0.5** |

1. **Project Resource Requirements**

**Hardware requirements:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Processor** | **RAM** | **Disk Space** | **Additional** |
| ***Web Browser (Internet Explorer 7+, Firefox 3.5+, Google Chrome 3+, Opera 9+, Safari 3+)*** | ***A 800-MHz Intel Pentium III processor or equivalent*** | ***512 MB of RAM (1GB recommended)*** | **100MB** | ***1024 x 768 resolution color display or better (1280 x 800 or 1280 x 1024 recommended)*** |
| **WAMP** | ***3-GHz Intel Processor or equivalent*** | ***3GB of RAM (4 GB recommended)*** | ***60 GB of available disk space*** | ***PHP Server (version 5.3)***  ***MySQL Server (version 5.x)*** |
| **Host server** | ***A 800-MHz Intel Pentium III processor or equivalent*** | ***20480MB*** | ***5120MB*** | ***File manager, disk space usage, Mysql databases*** |

**Software Requirements :**

* Php
* JavaScript
* HTML
* MYSQL
* AJAX
* CSS
* OS(windows)
* Notepad++(editor)
* Netbeans (optional)
* CSS inliner tool(optional)

1. **Risk management strategy:**

In on campus health center management system, risk management is one of the key responsibilities of the Medical officers. They provide training for each Doctor within the Health center to ensure that risk assessment is built into their working practices and to enable them to carry out annual risk assessments. These are then collated by the Medical superintendent to enable Medical officers to discuss and assess the overall risks to the health center management system. A prioritized profile of the top 30 risks is then presented to the Chief medical officer for discussion over the acceptance/mitigation of the risks. This process usually takes 2 months. Progress is reviewed after 6 months with a report sent to VIT management.

**Initial Risk list:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Risk no** | **Risk priority(high/medium/low)** | **Likelihood of occurrence** | **Risk name/brief description** | **Mitigation strategy** | **Accepted /mitigated** |
| **1** | High | Moderate | Misinterpretation of drug suggested | Unambiguous prescription | Mitigate |
| **2** | High | Low | Improper diagnosis and prognosis of a disease | Detailed and updated disease database | Mitigate |
| **3** | Medium | Low | Web server failure | Debug/replacement | Accepted |
| **4** | High | Moderate | Inadequate support from management | Through testing and proficient system | Accepted |
| **5** | High | Low | Lack of trust in system efficiency | Through testing, improved features and proficient system | Mitigated |
| **6** | Medium | Very Low | Unidentified user | Two step verification process | Mitigated |
| **7** | Medium | Very low | Software overhead | Long testing and debugging | Mitigated |
| **8** | Medium | Very low | Erroneous email | SSL encryption | Mitigated |
| **9** | Medium | High | Limited support from CMC | Advanced functionality | Accepted |
| **10** | Medium | Low | Untimely reply to patient’s request | Decrease response time | Mitigated |
| **11** | Low | Moderate | Unavoidable circumstances-sudden illness, system failure, loss of work | Backup, updated system, slag time | Accepted |