### **Testing Phase**

At this stage, Proponents uploaded all PHP files and upload all local database data into the GoDaddy.com web hosting sever, then proponents conducted a series of testing of the system to the user, however, in every test done by the proponents, the user/s suggests further changes of the lay-out of the system. The proponents took a lot of testing and checking until it reaches the maximum user’s satisfaction.

**Hardware and Software Used for System’s Testing**

Hardware Specification

DELL Inspiron 3451 laptop with:

* Processor Type 64 bit Quad Core
* RAM (2 or 4 GB)
* 250 and above Gigabyte Hard Disk Drive
* 1024 x 768 resolution monitor
* Mouse and keyboard

Operating System

* Windows 8.1

Network and Communication Devices

* Internet Connection

Database Server

* GoDaddy.com - MySQL

Web Server

* GoDaddy.com

Software

* Google Chrome and Mozilla Firefox

**Reliability Tests**

The proponents had also conducted a reliability test for the SMS Notification and for Web-hosting using the trial-and-error method and the result were the following:

Table 1: Reliability Test for sending SMS, N=10, Target Level of Confidence = 99%

Condition:

Systems run-time: 4 hours,

System check borrowers: every two hours as system start,

Number of. Trials: 3 days,

|  |  |  |
| --- | --- | --- |
| **Trial** | **Activity** | **Remarks** |
| 1 or 1st Day | Send Notification Message for 10 borrowers. | 1st two hours: 10 Borrowers received the notice.  2nd two hours: 10 Borrowers received the notice.  Therefore, 10 borrowers received the message on the 1st trial. |
| 2 or 2nd Day | Send Notification Message for 10 borrowers. | 1st two hours: 10 Borrowers received the notice.  2nd two hours: 10 Borrowers received the notice.  Therefore, 10 borrowers received the message on the 2nd trial. |
| 3 or 3rd Day | Send Notification Message for 10 borrowers. | 1st two hours: 10 Borrowers received the notice.  2nd two hours: 10 Borrowers received the notice.  Therefore, 10 borrowers received the message on the 3rd trial. |

Conclusions:

The test result on reliability test for SMS notification based on the remarks stated, as per system will check all the borrower’s deadline and will send SMS, those who are in result, they will received SMS Notification.

Table 2: Reliability Test for Web Hosting

Condition:

System run-time: 12 hours (6:00 AM – 6:00 PM),

Web-hosting provider: GoDaddy.com,

No of trials: 3 days,

|  |  |  |
| --- | --- | --- |
| **Trial** | **Activity** | **Remarks** |
| 1 or 1st Day | Observe functional time of the system from 6:00 AM to 6:00 PM on 72.2 Mbps Internet speed. | No Downtime detected |
| 2 or 2nd Day | Observe functional time of the system from 6:00 AM to 6:00 PM on 72.2 Mbps Internet speed. | No Downtime detected |
| 3 or 3rd Trial | Observe functional time of the system from 6:00 AM to 6:00 PM on 72.2 Mbps Internet speed. | No Downtime detected |

Conclusions:

The result on reliability test for web-hosting as per remarks shows that the system’s functional time during the working hours has no down time. Therefore, GoDaddy.com as web-hosting provider is reliable.

Table 3: Reliability Test of System Transaction

Condition:

System run-time: 1 hour

Web-hosting provider: GoDaddy.com

Number of user: 10 users

Number of trial: 3

|  |  |  |
| --- | --- | --- |
| **Trial** | **Activity** | **Remarks** |
|  |  |  |
|  |  |  |

Conclusions: