# Technical Requirements

## System

### Server

BPAP will utilize a web server to host CRISP. Below are the minimum requirements for the server:

|  |  |
| --- | --- |
| **Hardware** | **Minimum Requirements** |
| Processor | 1 GHz Intel Celeron or better |
| RAM | 1 GB |
| Disk Space | 1 TB |
| Video Card | 3D Acceleration capable with at least 256 MB |
| Network Interface Card | 100Mbps |
|  |  |
| **Software** | **Purpose** |
| LAMP Package | Contains the necessary software components (Linux, Apache, MySQL, PHP) to host web applications |

### Workstations

CRISP is a web-based application that can be accessed by any device that is connected to the Internet; however it is designed primarily for the use of PC workstations. Given this, there is no restriction on what web browser will be used to access CRISP. Below are the minimum requirements for three popular web browsers that will most likely be used:

* + Internet Explorer 8
    - Computer/Processor
      * Computer with a 233 megahertz (MHz) processor or higher (Pentium processor recommended)
    - Operating System
      * Windows XP 32-bit with Service Pack 2 (SP2) or higher
      * Windows XP Professional x64 Edition
      * Windows Vista 32-bit
      * Windows Vista 64-bit
      * Windows Vista with Service Pack 1 (SP1) or higher
      * Windows Server 2003 32-bit with Service Pack 2 (SP2) or higher
      * Windows Server 2003 64-bit with Service Pack 2 (SP2) or higher
      * Windows Server 2008 32-bit or higher
      * Windows Server 2008 64-bit or higher
    - Memory
      * Windows XP 32-bit with Service Pack 2 (SP2) or higher—64 MB
      * Windows XP Professional x64 Edition—128 MB
      * Windows Vista 32-bit—512 MB
      * Windows Vista 64-bit—512 MB
      * Windows Server 2003 32-bit with Service Pack 2 (SP2) or higher—64 MB
      * Windows Server 2003 64-bit with Service Pack 2 (SP2) or higher—128 MB
      * Windows Server 2008 32-bit—512 MB
      * Windows Server 2008 64-bit—512 MB
    - Hard Disk Space
      * Windows XP 32-bit with Service Pack 2 (SP2) or higher—150 MB
      * Windows XP Professional x64 Edition—200 MB
      * Windows Vista 32-bit—70 MB
      * Windows Vista 64-bit—120 MB
      * Windows Server 2003 32-bit with Service Pack 2 (SP2) or higher—150 MB
      * Windows Server 2003 64-bit with Service Pack 2 (SP2) or higher—200 MB
      * Windows Server 2008 32-bit—150 MB
      * Windows Server 2008 64-bit—200 MB
    - Drive
      * CD-ROM drive (if installation is done from a CD-ROM)
    - Display
      * Super VGA (800 x 600) or higher-resolution monitor with 256 colors
    - Peripherals
      * Modem or Internet connection
      * Microsoft Mouse, Microsoft IntelliMouse, or compatible pointing device
  + Mozilla Firefox
    - Windows
      * Operating Systems
        + Windows XP SP2
        + Windows Server 2003 SP1
        + Windows Vista
        + Windows 7
        + Windows 8
      * Recommended Hardware
        + Pentium 4 or newer processor that supports SSE2
        + 512MB of RAM
        + 200MB of hard drive space
    - Mac
      * Operating Systems
        + Mac OS X 10.6
        + Mac OS X 10.7
        + Mac OS X 10.8
      * Recommended Hardware
        + Macintosh computer with an Intel x86 processor
        + 512 MB of RAM
        + 200 MB hard drive space
    - Linux
      * Firefox will not run at all without the following libraries or packages:
        + GTK+ 2.18 or higher
        + GLib 2.22 or higher
        + Pango 1.14 or higher
        + X.Org 1.0 or higher (1.7 or higher is recommended)
        + libstdc++ 4.3 or higher
      * For optimal functionality, we recommend the following libraries or packages:
        + NetworkManager 0.7 or higher
        + DBus 1.0 or higher
        + HAL 0.5.8 or higher
        + GNOME 2.16 or higher
  + Google Chrome
    - Windows
      * Operating System: Windows XP Service Pack 2+, Windows Vista, Windows 7, Windows 8
      * Processor: Intel Pentium 4 or later
      * RAM: 128 MB
      * Disk space: 100 MB
    - Mac
      * Operating System: Mac OS X 10.6 or later
      * Processor: Intel
      * RAM: 128 MB
      * Disk space: 100 MB
    - Linux
      * Operating System: Ubuntu 12.04+, Debian 7+, OpenSuSE 12.2+, Fedora Linux 17
      * Processor: Intel Pentium 3 / Athlon 64 or later
      * RAM: 128 MB
      * Disk space: 100 MB

### Network

While CRISP can be accessed remotely by any workstation that is connected to the Internet, the server must also be connected to the Internet via at least a DSL connection.

## Development

The development laptops that will be used for the project will run both Linux and Windows operating systems for cross-platform purposes. The hardware and software specifications for the development laptops are similar to the server’s, with the addition of a Windows OS, preferably XP or higher.