SYSTEM REQUIREMENTS SPECIFICATIONS

**3.1 Overall Description:**

This SRS is an overview of the whole project scenario. This document is to present a detailed description of the course management system. It will explain the purpose and features of the system, the interfaces of the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both stakeholders and developers of the system.

**3.2. Operating Environment:**

***Software Requirements:***

Operating System : Windows 7 (Min)

Back End : Python

***Hardware Requirements:***

Processor : Intel Pentium® i5 Core Processor (Min)

Speed : 2.9 GHz (Min)

RAM : 4 GB (Min)

Hard Disk : 8 GB (Min)

**3.3 Functional Requirements:**

**User Functionality:**

* The user will be able to upload real time video using camera.
* The user can see information regarding the fire accident (If any takes place at his place).

**Admin Functionality:**

* The admin manages the System.
* The admin can increase accuracy of the model.
* The admin can make changes to the system as per user requirements.
* The admin can implement a better algorithm if at all a better algorithm is created in future.
  1. **Non-Functional Requirements:**

**3.4.1 Performance Requirements:**

Performance requirements refer to static numerical requirements placed on the interaction between the users and the software.

***Response Time:***

Average response time shall be less than 5 sec.

***Recovery Time:***

In case of system failure, the redundant system shall resume operations within 45 secs. Average repair time shall be less than 30 minutes.

***Start-Up/Shutdown Time:***

The system shall be operational within 1 minute of starting up.

***Capacity:***

-N/A

***Utilization of Resources:***

-N/A

* + 1. **Safety Requirements:**

-N/A

* + 1. **Security Requirements:**

-N/A

**Software Quality Attributes:**

***Reliability:***

The system shall be reliable i.e., in case the system crashes, progress will be saved.

***Availability:***

The software will be available to all its users round the clock i.e., they can access the it at any time.

***Security:***

The model will be running using only pure python hence it is 100 % secure.

***Maintainability:***

The model shall be designed in such a way that it will be very easy to maintain it in future. Our model is a image processing model. The system maintenance is easy done by just improving the accuracy of the model. The future versions can also be expected with more features in the future.

***Usability:***

The interfaces of the system will be user friendly enough that every user will be able to use it easily.

***Scalability:***

The system will be designed in such a way that it will be extendable. If more algorithms are going to be added in the system, then it would easily be done.