**2 SYSTEM CAPABILITIES**

**This section provides a brief overview of the system and its capabilities**

**2.1 Purpose**

**This section describes the purpose of the application system.**

The main purpose of the Parking Monitoring System is to keep track of the available and occupied spaces in a parking lot. The application system provides a way to monitor the available parking spaces by using an elevated camera. The system benefits many drivers who are searching for a parking space. The system is responsible for providing an output of how many parking spaces are available in a parking lot.

**2.2 General Description**

**This section provides an overview of the system’s capabilities, functions, and operation, including the specific high-level function performed by the system. Use graphics and tables if appropriate.**

The system is primarily responsible for monitoring the parking lot by using the elevated camera. The camera will take pictures. These pictures are sent to system which will process these images and store them. The system will continuously keep taking images of the parking lot, track the available spaces and display the output of the parking space availability. This will help drivers to pick a parking lot with available spaces and park their car. This system certainly benefits the driver in saving their time and not wasting their time in searching for a parking space.

The system is a collection of various functions which implement the functionality of the system.

1. Admin setup: Administrators can set up the initial state of the system.
2. When space is occupied, the system will remove the space from the available list.