**Subject**: Bringing Transperency on availability of seats in Radiology in a Govt. Hospital

**Problem Statement**: Cost of Radiology in a Private clinic: MRI: Rs. 6000/- to Rs. 8000/- based on availability of facilities. CT-Scan: Rs. 11,000/- and above. Government has provided facilities for these which are never used to the fullest extent, reason Involvment of corruption.

**Story line**:

Recently we had to visit AIIMS, Bhubaneswar and Govt. Medical, Puri for the treatment of my maternal uncle. The treatment was prolong and we had to make him undergo a lot of diagnosys. The diagnosys involved Radiology treatments as well. The dates of radiology appointment we were getting in AIIMS, Bhubaneswar was with more than 4 months of gap and in Govt. Medical, Puri was with more than 1 month. So we had to choose Pvt initially but with passage of time, when we found even though, the radiology dept. is not occupied but we were getting some date which was quite harrassing, we tried to enquire the situation informally. We were asked bribe and saw the people who were giving bribe, were getting immediate facilities. This created a little inconvenience and we shifted him to Pvt. Hospital. We were able to bear the expenditure in Pvt but this ignited the idea, what about general public, where is the transeprency for them.

**Requirement Abtsract**:

We have to create a Software which will be an additional feature to the existing display methodology in Hospital. The display shall list no of seats available on present and future days, so that the pepople can validate their date of appointment. This shall be tested in Rasperby board before deployment.

**Skill set**:

1. Embedded System Knowledge
2. Knowledge on 16-bit/32-bit Microcontroller
3. Python for interacting with Hardware
4. Python for Web-page Development

Course of Action

Step 1: Understand Python

Step 2: OOPS concept in Python

Step 3: Version Controlling (git-github)

Step 4: Automate Boring stuff using Python

Step 5: Web page using Python

Step 6: Think about H/W (Arduino or any similar processor)

Step 7: Understand SPI / I2C Protocol

Step 8: Attach display and deploy

Step 9: Deploy