**Jamia Millia Islamia (A central university)**

**Department Of Computer Science**

**Project Title**

Text editor (wsiwyg) editor with version control

**Supervisors:**

**Internal:** Dr. Syed Zeshaan Ahmed

**External:** Ms. Ayushee Sharma

**Organization:** VectoScalar Technologies Pvt Ltd

**Generic Goals**

To develop editor for novelist book writer editors, scholars and other professional.

**Problem Description**

Government hospitals provides medicines for the treatment to the patients based on the diagnosis. During the peak time of a disease, some medicines are not available in the hospital. Based on patient’s historical and current data, system can generate a report on what all medicines should be available in the hospital and in what quantity at particular time and location of the hospital.

Doctors and specialists availability needs to be managed as per the inflow of patients. Many times patients do not find the required doctor during the peak of a disease or shortage of doctors in a hospital. Based on patient inflow for a particular ailment or disease, historical data and current data, system could generate the requirement of number of doctors required in a hospital on daily basis and also during a peak of a disease. Many times, doctors are not available when patients needs them more, e.g. on weekends, holidays, evenings etc.

**Project Objectives**

1. To learn predictive analysis and supervised learning models. (like regression )
2. To develop a predictive model which use the general patient structured or unstructured data and find the useful relation.
3. To understand technologies that works on cross platforms (eg react js)
4. To make availability of medicine where it is actually needed.

**Challenges**

1. In India patient data is not use properly as it should be treated. It can provide the useful information about and upcoming challenges.
2. Poor care quality leads to more deaths than insufficient access to healthcare–1.6 million Indians died due to poor quality of care in 2016. In 2017 it hits 2.4 million according to central bureau of health intelligence [report](http://www.indiaenvironmentportal.org.in/files/file/NHP_2017-1.pdf).
3. India has a little over 1 million modern medicine doctors to treat its 1.3 billion people according to same [report](http://www.indiaenvironmentportal.org.in/files/file/NHP_2017-1.pdf).
4. 27% of deaths in India for want of medical attention according to [Times of india report](https://timesofindia.indiatimes.com/india/27-of-deaths-in-India-for-want-of-medical-attention/articleshow/49474537.cms).

**Deliverables**

* Preliminary & Intermediate Report
* An utility software application that can be use in all type of mobile paltforms (Android, IOS, Windows)
* Final Project Report

**System Functions**

* Locate the location with map(google maps) which shows the feature below
* Medicine Usage
* Inventory/Costing/Budgeting
* Identify disease
* Disease trending based on diagnosis
* Health Program Implementation Initiative trackers
* Increase the operational efficiency of patient treatment
* Optimize utilization of specialists/experts
* Contexts Search on diagnose, Medicines etc.
* Increase efficiency of treatment/Prescripription

**Monthly Schedule**

* First month deep study about machine learning predictive models and analysis(feb- march)
* Second month gathering data and formatting them into structured format and findings the way how to convert unstructured data into ready for analysis form( march – april)
* Third month start creating models and developing the application (april – may)
* Fourth month testing the various process the debugging , deploying the application and generate reports (may- june)

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| **Student Name & signature** | **Signature of Supervisor(s)(External)**  **Company Name (Internal)** |