Project Scope Document

* **Project Summary**

**Regression** is a machine learning algorithm based on **supervised learning**. It performs a **regression task**. Regression models a target prediction value based on independent variables. **Regression** is typically used to predict insights into the future by using the historical values. This problem statement asks us to predict the **Life Expectancy** of the people in a country using the features provided in the dataset.

**Life expectancy** is a statistical measure of the average time a human being/person is expected to live, based on the year of its birth, its current age and other demographic factors including gender. The dataset has been provided by the **WHO (World Health Organization)**. The data offers a timeframe from 2000-2015 i.e 15 years for 193 countries. Various factors like GDP, Education, alcohol intake of the people, expenditure on health care in the country and other specific disease related deaths that occurred in the country are given in the dataset.

* **Project Requirements**
* Functional Requirements

Predict life expectancy of the people living in a country using a machine learning model.

* Technical Requirements

Python, IBM Cloud, IBM Watson

* Hardware Requirements

Processor : i3 7th Gen or higher

Speed : 2.00 GHz or more

Hard Disk Space : 10 GB or more

RAM : 2 GB or more

* **Project Deliverables**

1. Given a form where several inputs are entered by the user (GDP, Status,education, mortality etc) ; the system predicts the life expectancy of the country.
2. The system aims to determine how the various factors impact life expectancy of a country and find which factors are prominent influencers.

* **Project Team**

1. Kulbhushan Kelkar (Individual)

* **Project Schedule**

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| **Task** | **Days** |
| 1. Git 2. Zoho Writer 3. IBM Cloud Services 4. Watson Studio 5. Node-RED | 0.5 day (17/05/2020)  0.5 day (17/05/2020)  1 day (18/05/2020)  3 days (19/05/2020)  2 days (22/05/2020) |
| 1. Documentation 2. Data Preprocessing 3. ML Algorithms 4. Node-RED Integration | 1 day (24/05/2020)  2 days (25/05/2020)  2 days (27/05/2020)  1 day (28/05/2020) |