**Business Understanding Report**

The text below will provide summary of problem selected for Strategic Thinking module of AI part time course. The intent of project is to apply machine learning and artificial intelligence techniques to show knowledge and ability to come up with working AI model for dealing with selected data.

The selected problem chosen for the project relates to humans heart failure / diagnosed heart disease causality. The databases selected from kagle.com contain features in regards to human body parameters, medical history and habits. The target features in selected databases are hearts failures (yes or no) or diagnosed heart disease (yes or no).

The rational for solution of this problem is to show dependency / correlation between heart failure or heart disease probability and the rest of features in the selected databases.

As first part of this problem solution the intent is to show main driving factors for different groups of people subdivided by gender and age that might lead to high probability of having heart failure / diagnosed heart disease.

The second part of this project will be building a model which will take as inputs individual parameters of any person such as human body parameters, medical history, habits and produce as an output the probability of heart failure together with main driving factors in regards to high failure probability.

For the last part of this project we shall need to develop further understanding of selected problem together with better understanding of artificial intelligence techniques in order to come up with AI model for the selected problem.

Next dataset selected to work further on this problem. Cardiovascular study on residents of the town of Framingham, Massachusetts. Dataset consists of over 4,000 records and 15 attributes. The dataset is publically available on the Kaggle website.

Data Source References  
<https://www.kaggle.com/amanajmera1/framingham-heart-study-dataset/data>