PROJECT CHARTER

TEAM NAME	I.T. Girls		
PROJECT NAME	Health Status Prediction		
PROJECT SPONSOR(S)	Dr. Kamal Kakish, Dr. Anca Doloc Mihu		
DATE OF PROJECT APPROVAL	01/25/2021	**LAST REVISION DATE**	02/03/2021

	NAME	**ROLE**
TEAM MEMBERS	Sarah Price	Team Manager, Lead Data Analyzer
	Ruth Whitehouse	Client Liaison, Lead Data Modeler
	Shababa Kamreen	Scrum Master, Co-Visualization
	Lillian Sheppard	Project Scribe, Co-Visualization

PROJECT DESCRIPTION (OPPORTUNITY)	Health Status Prediction is an application designed to show a user's health status based on the collection of massive datasets. It involves the creation of dynamic visualizations that accurately show the attributes that influence a specific disease, cancer, virus, etc. This analytical platform also includes decision trees and feature selection algorithms for proper classification of attributes and data.
PROJECT SCOPE	The Health Status Prediction model we strive to create is an informative platform that allows users to input one or multiple symptoms they may be experiencing and receive a suggested diagnosis based on datasets gathered from clinical reports. These datasets include symptoms and attributes that influence or are directly related to Heart Disease. If the user submits symptoms that are not directly related to Heart Disease, the model will inform them that a different analysis is required to diagnose their ailment. We will provide visual aids that better depict how and why such a diagnosis was made.
PROJECT DELIVERABLES (MEASURABLE OBJECTIVES)	An analytical platform that uses clinical datasets to provide 1) an accurate diagnosis based on the patient's symptoms and 2) a visualization that depicts how and why the patient's symptoms influence their ailment.
BUSINESS CASE	Successful and accurate models benefit general healthcare professionals, as well as potential patients. While the platform should not be used as a substitute for proper care, it can help disgruntled users discern the cause of their symptoms, or aid in making sensible decisions about their health.

	TIME	**BUDGET**	**SCOPE**	**QUALITY**
CONSTRAINTS	one semester	N/A	Final project must include both a diagnosis and a visualization for each user input.	Suggested diagnosis is at least 85% (subject to change) accurate based on patient input.

	NAME	**ROLE**
TECHNOLOGIES	Python	Primary Programming Language
	SAP Analysis	Data Analysis and Visualization
	Plotly	Visualization
	Vue	Web Framework