**Wireframe Document**

**Heart Disease Diagnostic Analysis**



**Revision Number - 1.2**

**Last Date of Revision - 04/08/2022**

**Sanjeev Kumar**

WIREFRAME DOCUMENT DESIGN

**Document Control**

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| **Date** | **Version** | **Description** | **Author** |
|  |  |  |  |
| 21/07/2022 | 1.0 | Introduction, | Sanjeev Kumar |
|  |  | Problem Statement |  |
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| 26/07/2022 | 1.1 | Dataset Information, | Sanjeev Kumar |
|  |  | Architecture |  |
|  |  | Description |  |
|  |  |  |  |
| 04/08/2022 | 1.2 | Final Revision | Sanjeev Kumar |
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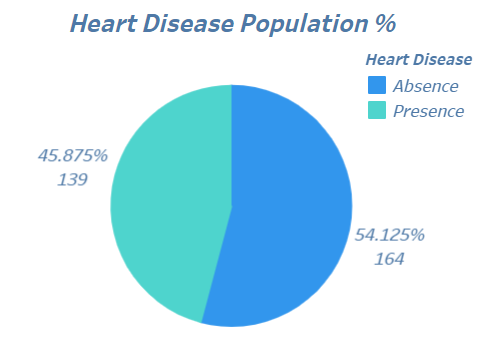
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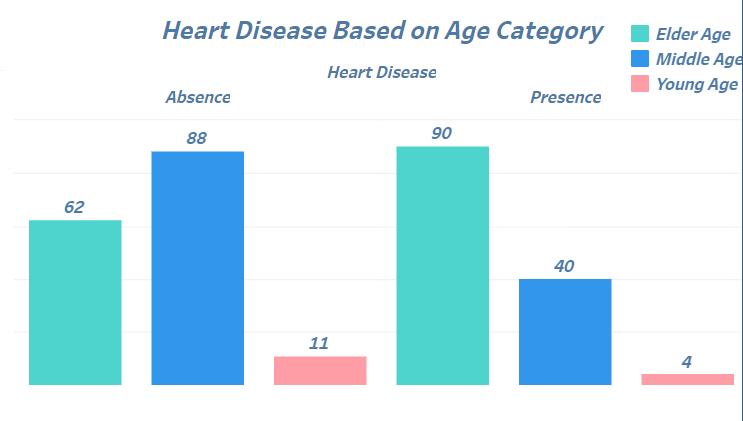
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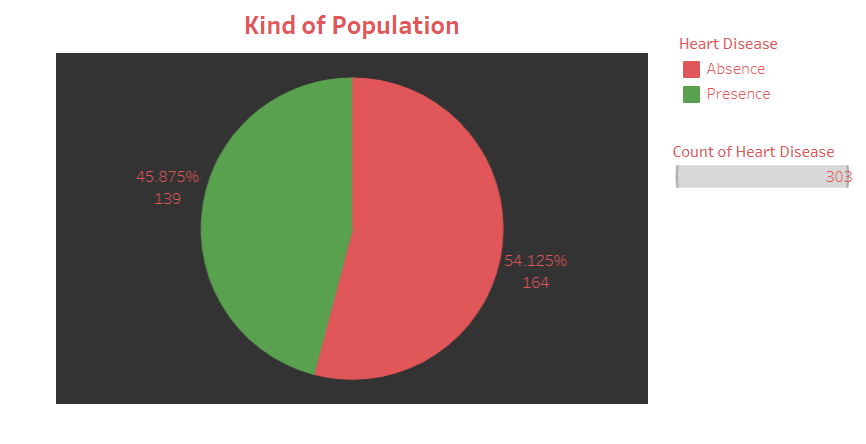
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**We Performed Exploratory Data Analysis on Jupyter Notebook and then created a Tableau Desktop Dashboard.**

1. **What Kind of Population do we have?**

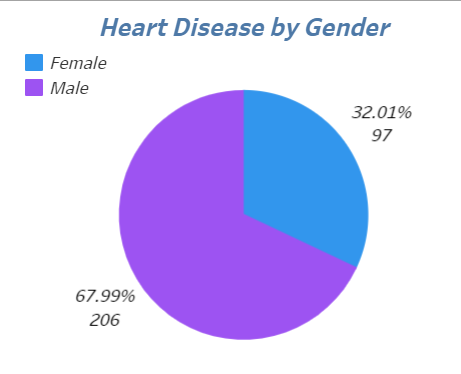


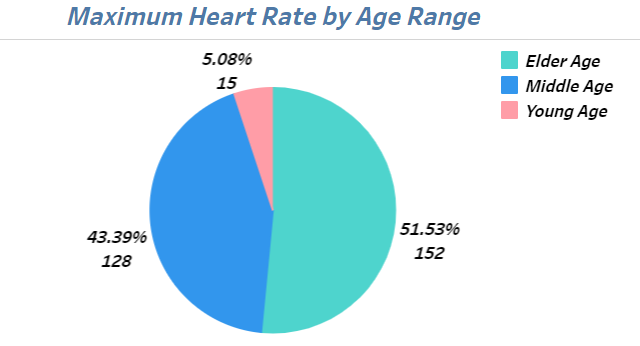




* 45.87% People suffering from heart disease.
* 54.12% People are healthy.
* Elderly Age People are suffering from heart disease.
* Most of Young and Middle age people are free from heart disease.

1. **Who Suffers from Heart Disease?**





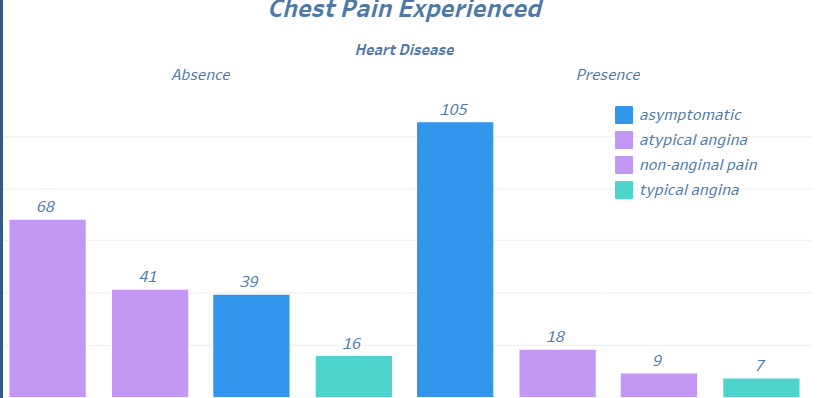
* Males are more prone to heart disease.
* Elderly Aged People are more prone to heart disease.

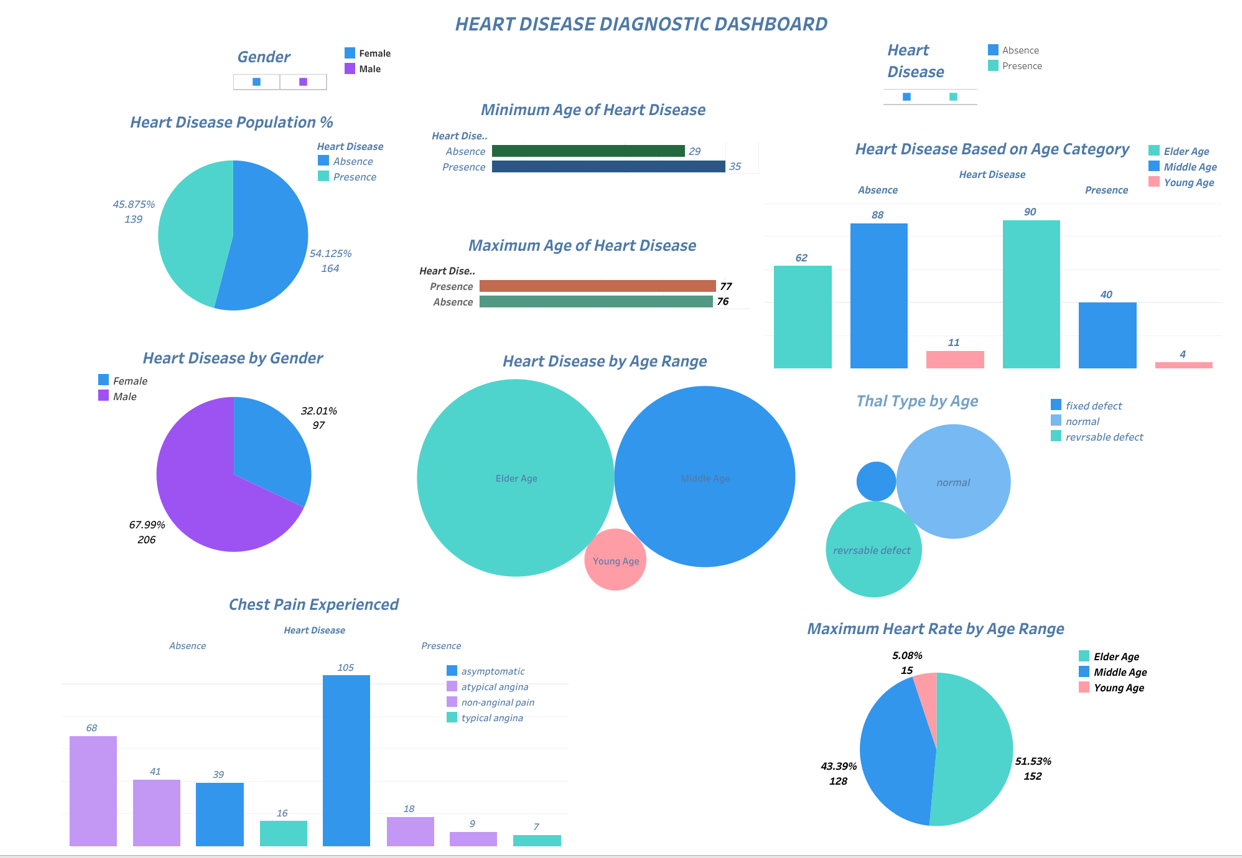


H e a r t D i s e a s e D i a g n o s t i c A n a l y s i s

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1. **What symptoms people experience in heart disease**



* It seems people having asymptomatic chest pain have a higher chance of heart disease.
* Asymptomatic Chest pain means neither causing nor exhibiting symptoms of heart diseases.
* 

The patient with the below features have all turned out to have developed heart disease:

1. age<**54**
2. Max heart rate **>152 bpm** o No. of vessels colored by flourosopy **=0** o Thalassemia is **fixed**

The patient with the below features have 88% turned out to have developed heart disease:

1. Age>**54**
   1. Peak exercise ST segment is **NOT FLAT** o No. of vessels colored byflourosopy **=0** o Thalassemia is **fixed**

* Total Patients with heart disease is 165 (54.6%) of total 303 subjects.
* Average Risk of developing heart disease is 83.39%.
* Average Resting BP for people with heart disease is 129.3 mmHg.
* Average Serum Cholesterol for people with heart disease is 242.33 mm/dl.
* Average age for people with heart disease is 52.5 years.
* Average max heart rate achieved for people with heart disease is 158.47 bpm.
* Average no. of major vessels affected for people with heart disease is 0.36.
* Average ST depression induced due to exercise for people with heart disease is 0.58.



**7 |** Page

H e a r t D i s e a s e D i a g n o s t i c A n a l y s i s