

**Project Design Phase-I**  
**Proposed Solution Template**

Date	25 october 2023
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Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard
Maximum Marks	2 Marks

**Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The problem is the lack of easily accessible, comprehensible, and interactive tools for individuals to assess and manage their risk of heart diseases. Heart diseases, driven by factors like obesity, sedentary lifestyles, and smoking, are a significant health concern.
2.	Idea / Solution description	<p>Our solution is an interactive and user-friendly dashboard powered by Tableau. It compiles and analyzes heart disease-related data to provide individuals with personalized risk assessments and insights into prevention strategies. The dashboard includes:</p> <ul style="list-style-type: none"><li>● Visualizations of individual heart disease risk factors.</li><li>● Predictive models for assessing future risk.</li><li>● Recommendations for lifestyle changes.</li><li>● Integration with healthcare providers for real-time monitoring and guidance.</li><li>● Accessible via web and mobile devices.</li></ul>

3.	Novelty / Uniqueness	What sets our solution apart is its combination of data visualization, predictive analytics, and personalized recommendations in a single, user-friendly platform. It leverages the power of Tableau for intuitive data presentation. The integration with healthcare providers adds a unique layer of support for users, creating a holistic approach to heart disease prevention.
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4.	Social Impact / Customer Satisfaction	<p>Our solution aims to have a significant social impact by reducing the incidence of heart diseases and improving public health. Customer satisfaction is a key goal, achieved through:</p> <ul style="list-style-type: none"> <li>• Empowering individuals with knowledge about their heart health.</li> <li>• Providing practical guidance for risk reduction.</li> <li>• Offering a sense of control and confidence.</li> <li>• Building trust through accuracy and reliability.</li> <li>• Facilitating ongoing communication with healthcare providers.</li> </ul>
5.	Business Model (Revenue Model)	<p>The business model involves a freemium approach:</p> <ul style="list-style-type: none"> <li>• Free Version: Basic access to the interactive dashboard for risk assessment and recommendations.</li> <li>• Premium Version: Subscribers pay a monthly or yearly fee for additional features, such as real-time monitoring, more personalized recommendations, and access to a network of specialized healthcare providers.</li> <li>• Data Monetization: Aggregated, anonymized data may be sold to healthcare researchers, institutions, or organizations for research and analysis purposes, ensuring privacy and compliance</li> </ul>

		with data protection regulations.
6.	Scalability of the Solution	<p>Our solution is highly scalable due to its digital nature and cloud-based infrastructure. It can accommodate a growing user base and expanded feature set. Scalability is achieved through:</p> <ul style="list-style-type: none"><li>• Cloud hosting to handle increased data and user loads.</li><li>• Developing APIs for integration with additional healthcare providers and systems.</li><li>• Continuous improvement and updates based on user feedback and advancements in heart disease research.</li><li>• Expansion into global markets, adapting to different healthcare systems and languages as needed.</li></ul>

