Prototype Format

1. **Team Name:** Mission: Possible

2. **Team Members:**
   Vishal K.S
   Vishwash Sharma
   S. Jaya Amruth
   V. Sai Shruthik

3. **Abstract:**

Our hackathon idea aims to develop a website that utilizes HTML, CSS, and JavaScript for the frontend, with Python serving as the backend for disease detection. The website will leverage the power of Hadoop as a database to store and manage the health-related data. By combining these technologies, we propose an innovative solution to address the problem of timely and accurate disease detection. This solution has the potential to significantly impact the healthcare sector by improving diagnosis speed and accuracy, leading to better patient outcomes.

4. **Problem Statement:**

The timely and accurate detection of diseases is crucial for effective treatment and management. However, the current healthcare system faces limitations in terms of accessibility to specialized medical professionals and the time it takes to diagnose certain conditions. This can result in delayed treatment, increased healthcare costs, and even compromised patient health. Therefore, it is important to find a solution that can accelerate the disease detection process while maintaining accuracy.

5. **Proposed Solution:**

Our proposed solution is to develop a website that acts as a user-friendly interface for disease detection. The frontend of the website will be built using HTML, CSS, and JavaScript, providing an intuitive and visually appealing platform for users to interact with. The backend will be powered by Python, which will utilize machine learning algorithms to analyze health data and detect diseases accurately. To manage and store the vast amount of health-related data, we will use Hadoop as a distributed database. Additionally, we will utilize the Flask framework in Python to integrate the frontend and backend components.

The proposed solution addresses the problem statement by providing a user-friendly website that expedites the disease detection process while maintaining accuracy. This eliminates the limitations of accessibility to specialized medical professionals and reduces the time required for diagnosis.

6. Technologies and Resources:

Python - Backend development
HTML, CSS, JS - Frontend development
Hadoop - Data Storage and management
Flask framework - Integrating the frontend and backend components
CNN, Keras - Neural networks
TensorFlow - ML framework

7. Potential Impact:

The potential impact of our hackathon idea is significant. By providing a user-friendly website for disease detection, we can bridge the gap between patients and specialized medical professionals. This solution has the potential to expedite the diagnosis process, leading to timely interventions and improved patient outcomes. Additionally, the utilization of Hadoop as a database ensures scalability, making it feasible to handle large amounts of health data effectively.

By improving disease detection speed and accuracy, our solution can reduce healthcare costs associated with prolonged treatments and misdiagnoses. It can also enhance accessibility to healthcare by allowing users to access disease detection services remotely, reducing the need for physical appointments.

8. Conclusion:

In conclusion, our hackathon idea revolves around developing a website that utilizes HTML, CSS, and JavaScript for the frontend, Python as the backend for disease detection and Hadoop as a distributed database with this we aim to improve disease detection speed and accuracy, leading to better patient outcomes and reduced healthcare costs. We are excited about the potential value and impact of our solution and look forward to bringing it to life during the hackathon.