**Title**- Big Data Analysis for Effective cardiovascular heart attack Prediction using AWS.

**Team information**: members, how the collaboration has been done (if applicable):

* Bhavya Edara: responsible for analytics and model building using machine learning.
* Ramya Harshitha: responsible for admin and user module creation
* Pragna Pothina: responsible for storage and connectivity
* Sai Vignesh Kanamatareddy: responsible for cloud deployment

**Things that have been tried/accomplished**:

* The team has successfully identified the project's motivation and purpose, including leveraging big data analytics and cloud computing to establish an efficient predictive model for cardiovascular heart attacks.
* AWS services like Amazon S3, Amazon EC2, and Amazon Machine Learning have been selected for data storage, computing, and predictive model development, respectively.
* A vast dataset of patient information has been collected from various sources, including electronic health records, and analyzed using machine learning algorithms to create an accurate predictive model for cardiovascular heart attacks.
* The team has successfully created a user module that allows patients to input their medical history, lifestyle preferences, and other relevant information to create a predictive model for their risk of heart diseases. The system then generates personalized recommendations for the patient to take steps to reduce their risk.
* A notification feature has been added to the system, which would notify users via email or message when there is a high risk of developing heart disease based on their input data.

**Things to do**:

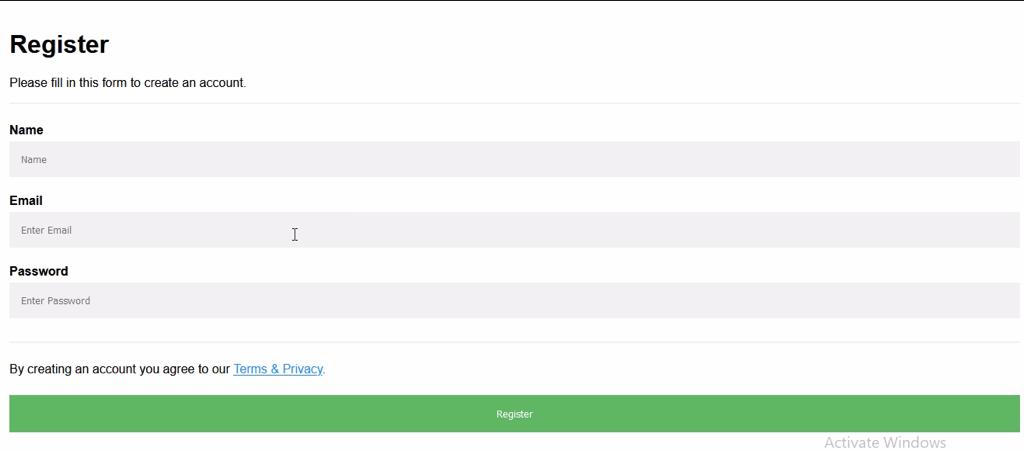
* The team needs to refine and enhance the predictive model's accuracy by incorporating additional data and testing.
* The admin module needs to be created, which allows the administrator to control and create user accounts while managing roles and permissions.
* Reporting and analytics need to be added to track successful predictions made by the system and provide valuable insights into usage behavior while gauging overall effectiveness of the entire system.

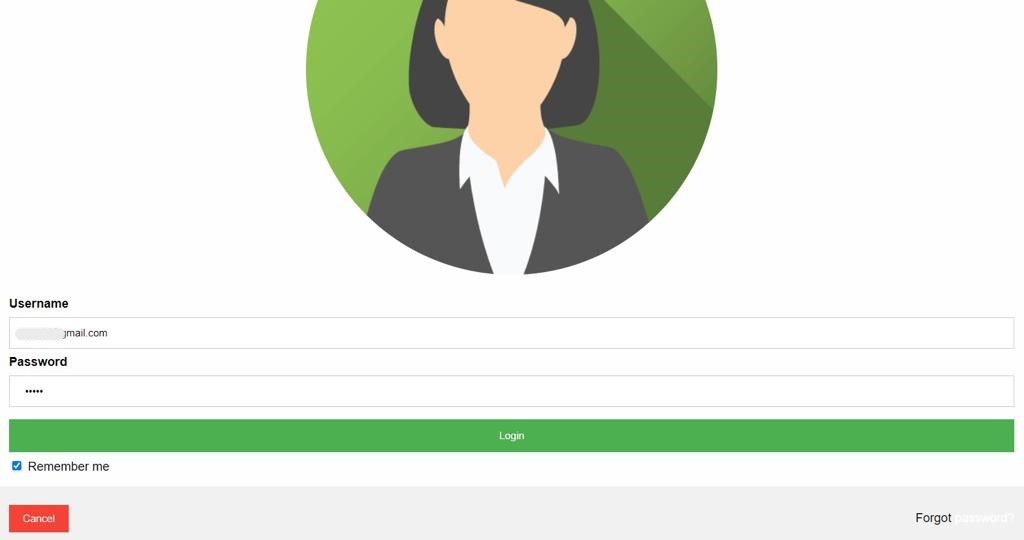
**Challenges/Comments:**

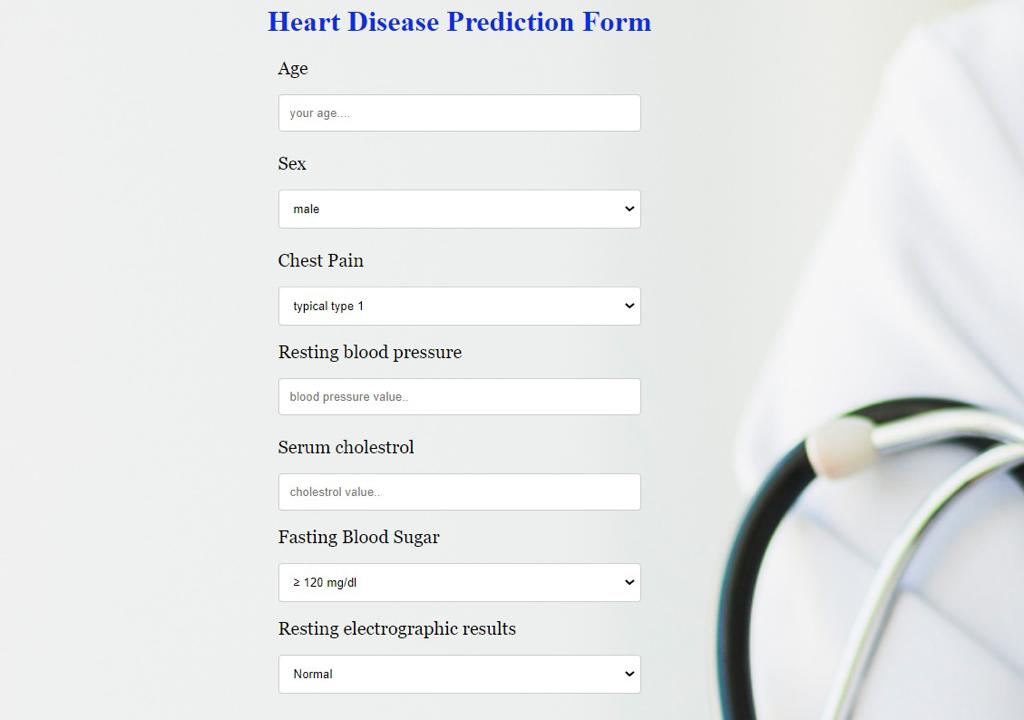
* One of the challenges faced by the team is acquiring and analyzing large amounts of healthcare data. It requires significant effort to collect and preprocess data from various sources.
* The team needs to ensure that the system is secure and complies with healthcare regulations such as HIPAA to protect patient information.
* The team needs to optimize the performance of the predictive model and the overall system to provide a seamless user experience.

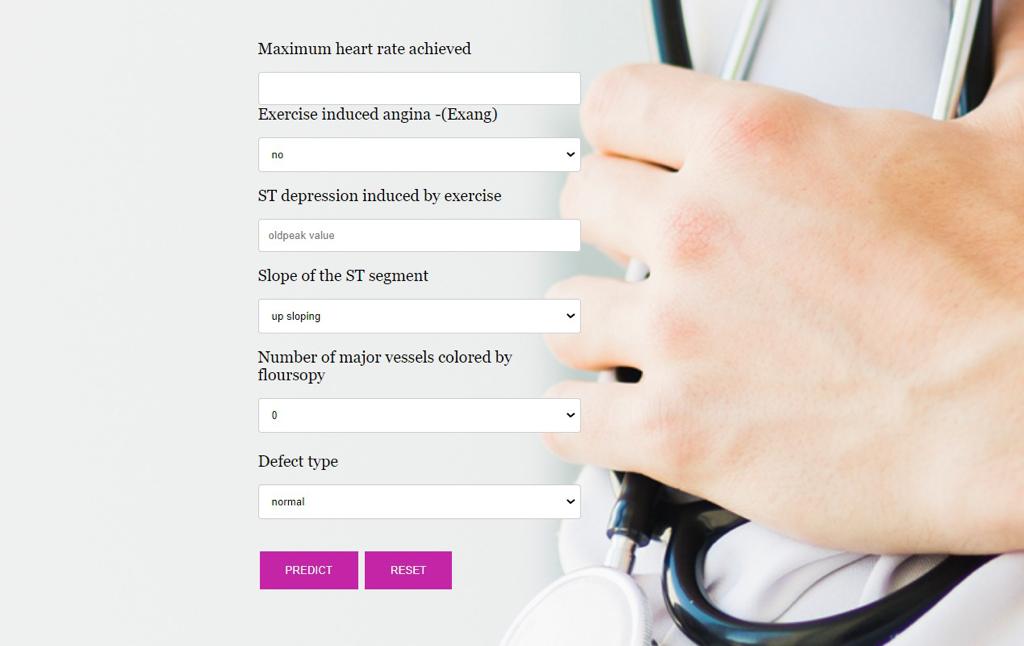
**Snapshots of the project Templates:**

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