
Cardiovascular Disease Predictor

User contact: *mnjie@clarkson.edu*

User Requirement Team: Rumana Tabassum, Cody De La Fleur, Mariama Njie

Development Team: Ethan Nolet, Rumana Tabassum, Amity Ramona Mentis-Cort, Mariama Njie

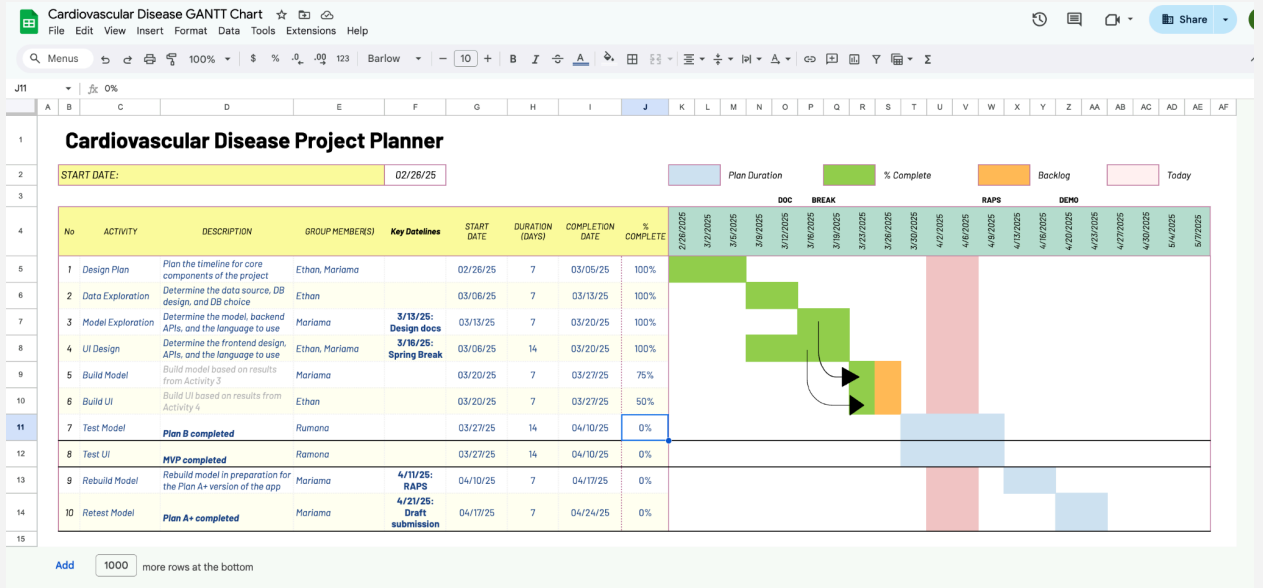
APPLICATION SUMMARY

This project aims to build a web application that uses ML to predict the presence of cardiovascular diseases. Cardiovascular diseases are diseases that affect the heart or blood vessels, examples include heart failure, stroke, etc. Given the potential impact of this project on public health, its innovative use of AI, and the opportunity for commercialization, we recommend moving forward with the project. However, careful attention must be given to addressing key challenges such as data privacy, system integration, and ensuring the accuracy of predictions.

Table of Contents (As of Date: 03/04/2025)

| | |
|--|-----------------|
| <i>Application Summary</i> | <i>1</i> |
| <i>Table of Contents</i> | <i>2</i> |
| <i>Project Plan</i> | <i>3</i> |
| <i>Modules</i> | <i>3</i> |
| <i>Project Structure</i> | <i>3</i> |
| <i>APIs & Designs</i> | |
| <i>CardiovascularDiseasePredictorDB</i> | <i>4</i> |
| <i>CardiovascularDiseasePredictorUI</i> | <i>4</i> |
| <i>CardiovascularDiseasePredictorBackend</i> | <i>5</i> |

Project Plan



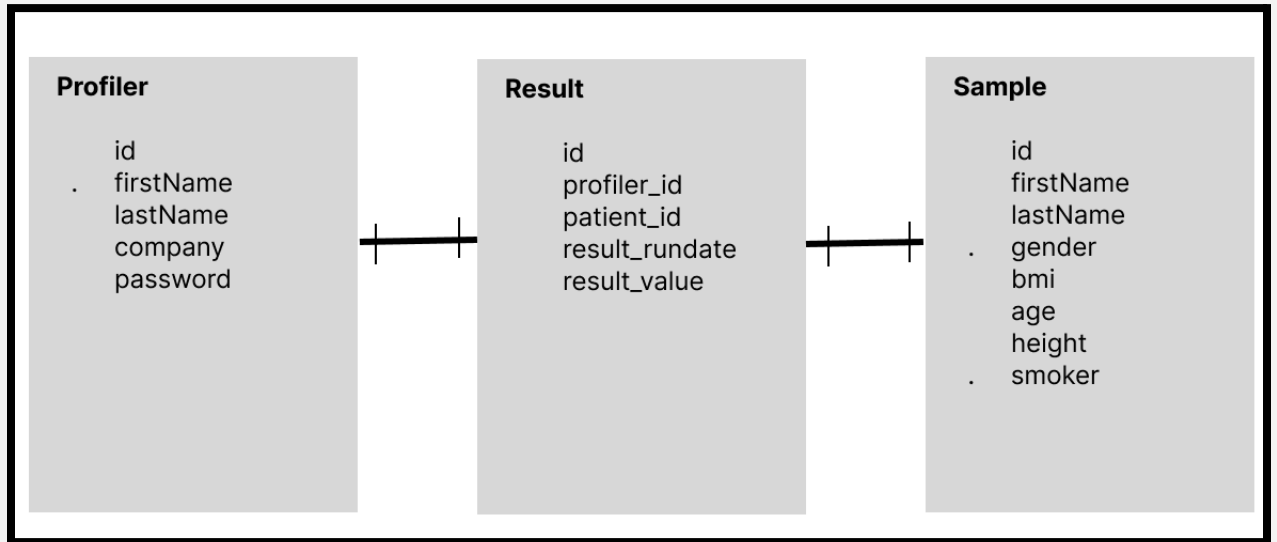
Modules

1. *CardiovascularDiseasePredictorDB*
2. *CardiovascularDiseasePredictorUI*
3. *CardiovascularDiseasePredictorBackend*

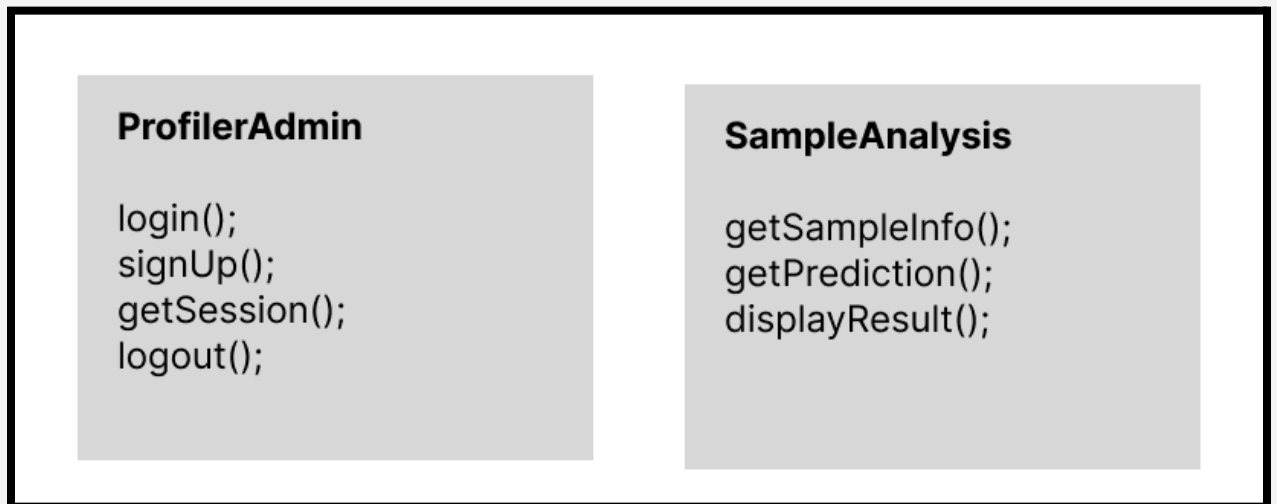
Project Structure

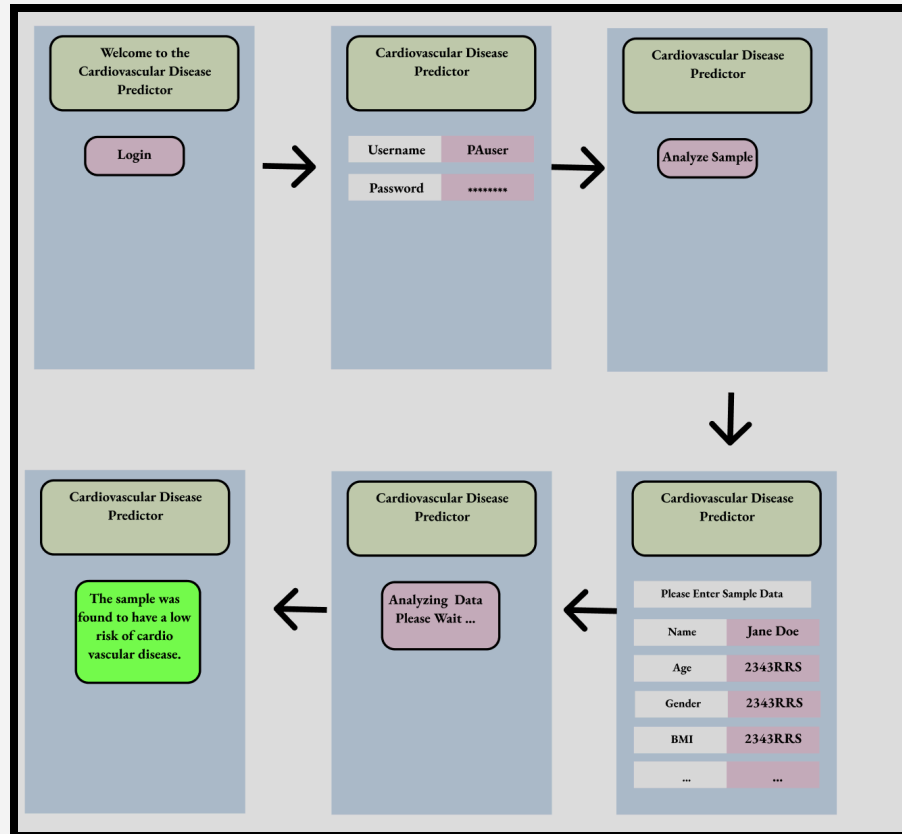
| Name | Date Modified | Size | Kind |
|--|-------------------------|-----------|----------------|
| group-project-cardiovascular-disease-predictor | | | |
| CardiovascularDiseasePredictorBackend | Mar 4, 2025 at 4:49 PM | -- | Folder |
| resource | Mar 8, 2025 at 4:28 PM | -- | Folder |
| src | Mar 4, 2025 at 4:48 PM | -- | Folder |
| controller | Mar 4, 2025 at 4:48 PM | -- | Folder |
| model | Today at 8:51 PM | -- | Folder |
| CardiovascularDiseasePredictorModel.ipynb | Today at 8:51 PM | 355 KB | Document |
| repository | Mar 4, 2025 at 4:48 PM | -- | Folder |
| service | Mar 4, 2025 at 4:48 PM | -- | Folder |
| test | Mar 4, 2025 at 4:48 PM | -- | Folder |
| CardiovascularDiseasePredictorDB | Mar 4, 2025 at 4:49 PM | -- | Folder |
| resource | Mar 4, 2025 at 4:49 PM | -- | Folder |
| table | Mar 17, 2025 at 4:15 AM | -- | Folder |
| patient.sql | Mar 17, 2025 at 4:15 AM | 281 bytes | Xcode...cument |
| profiler.sql | Mar 9, 2025 at 10:30 AM | 174 bytes | Xcode...cument |
| result.sql | Mar 9, 2025 at 10:30 AM | 347 bytes | Xcode...cument |
| view | Mar 4, 2025 at 4:49 PM | -- | Folder |
| CardiovascularDiseasePredictorUI | Today at 9:01 PM | -- | Folder |
| resource | Mar 29, 2025 at 6:13 PM | -- | Folder |
| src | Mar 4, 2025 at 4:50 PM | -- | Folder |
| tempfiles | Today at 9:01 PM | -- | Folder |
| Home | Apr 1, 2025 at 2:48 PM | -- | Folder |
| LoginSignup | Apr 1, 2025 at 2:48 PM | -- | Folder |
| Results | Apr 1, 2025 at 2:48 PM | -- | Folder |
| SampleForm | Apr 1, 2025 at 2:48 PM | -- | Folder |
| UserHome | Apr 1, 2025 at 2:48 PM | -- | Folder |
| test | Mar 4, 2025 at 4:48 PM | -- | Folder |
| docs | Mar 26, 2025 at 7:06 PM | -- | Folder |
| README.md | Today at 9:02 PM | 105 bytes | Markdo...ument |

API & Designs: CardiovascularDiseasePredictorDB



API & Designs: CardiovascularDiseasePredictorUI





API & Designs: CardiovascularDiseasePredictorBackend

