

Project Initialization and Planning Phase

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|---------------|---------------------------|
| Date | 10 July 2024 |
| Team ID | SWTID1720043892 |
| Project Name | WCE Curated Colon Disease |
| Maximum Marks | 3 Marks |

Define Problem Statements (Customer Problem Statement Template):

Medical Diagnostics:

As a healthcare professional, I struggle to accurately diagnose colon diseases in a timely manner, which can lead to delayed treatment and poor patient outcomes. I need a reliable and efficient way to classify colon diseases from medical imaging data, so I can provide accurate diagnoses and develop effective treatment plans for my patients.

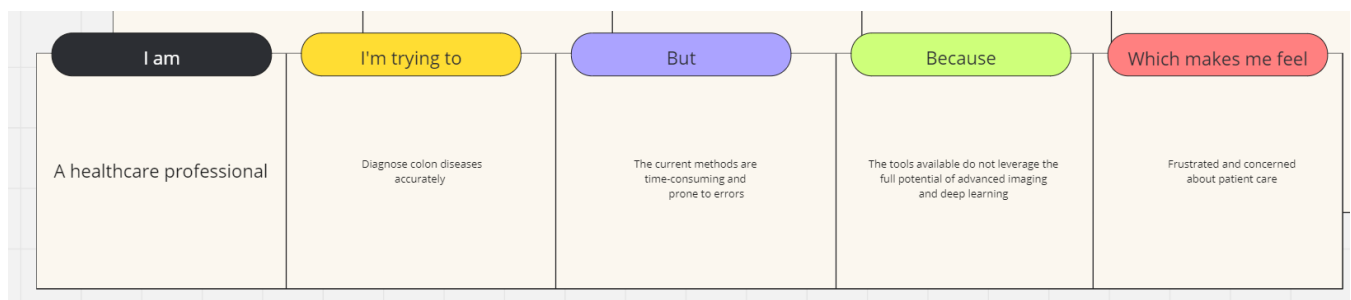
HealthCare Providers:

As a healthcare provider, I am concerned about the inefficiencies and errors in our current disease identification process, which can lead to delays in patient care and increased costs. I need a way to automate disease identification and integrate it with our electronic health record systems, so we can improve workflow efficiency, reduce diagnostic errors, and provide better patient management.

Medical Research:

As a medical researcher, I am limited by the lack of insights into colon disease patterns and trends, which hinders our understanding of disease mechanisms and development of effective treatments. I need a way to analyze large amounts of medical imaging data and patient records, so we can identify patterns and trends in colon disease prevalence and progression, and develop personalized treatment approaches to improve patient outcomes.

PS-1:



PS-2

| I am | I'm trying to | But | Because | Which makes me feel |
|-------------------------------------|--|--|--|--|
| A healthcare provider administrator | Improve workflow efficiency and reduce diagnostic errors | The integration of advanced diagnostic tools into EHR systems is challenging | It requires significant technical expertise and investment | Overwhelmed and uncertain about implementation |

PS-3:

| I am | I'm trying to | But | Because | Which makes me feel |
|----------------------|---|---|--|--|
| A medical researcher | Analyze patterns and trends in colon disease prevalence and progression | The available data is vast and unstructured | Current tools do not effectively utilize deep learning for meaningful insights | Limited in my ability to advance medical research and improve patient outcomes |

| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Because | Which makes me feel |
|------------------------|-------------------------------------|---|--|--|--|
| PS-1 | A healthcare professional | Diagnose colon diseases accurately | The current methods are time-consuming and prone to errors | The tools available do not leverage the full potential of advanced imaging and deep learning | Frustrated and concerned about patient care |
| PS-2 | A healthcare provider administrator | Improve workflow efficiency and reduce diagnostic errors | The integration of advanced diagnostic tools into EHR systems is challenging | It requires significant technical expertise and investment | Overwhelmed and uncertain about implementation |
| PS-3 | A medical researcher | Analyze patterns and trends in colon disease prevalence and progression | The available data is vast and unstructured | Current tools do not effectively utilize deep learning for meaningful insights | Limited in my ability to advance medical research and improve patient outcomes |