

1.1 PROBLEM STATEMENT

What problem is your project trying to solve? Use non-technical jargon as much as possible.

1. Creating an application for the startup company Hinckley Medical to manage all internal business.
2. Provide resources for customers to learned more about products
3. Ability for customers to service their products

1.2 REQUIREMENTS & CONSTRAINTS

List all requirements for your project. This includes functional requirements (specification), resource requirements, qualitative aesthetics requirements, economic/market requirements, environmental requirements, UI requirements, and any others relevant to your project. When a requirement is also a quantitative constraint, either separate it into a list of constraints, or annotate at the end of requirement as “**(constraint)**”. Other requirements can be a single list or can be broken out into multiple lists based on the category.

Requirements:

1. Responsive (functional)
2. User friendly (functional)
3. Safe (security)
4. Compatible on all devices (functional)

Constraints:

1. Project needs to be completed by the end of two semesters (resource constraint)

1.3 ENGINEERING STANDARDS

What Engineering standards are likely to apply to your project? Some standards might be built into your requirements (Use 802.11 ac wifi standard) and many others might fall out of design. For each standard listed, also provide a brief justification.

1. Standard website formatting
 - a. Include a logo in the top left, menu bar on the left, and standard dropdown items.
2. HTTPS protocol
 - a. An HTTPS-Only standard will eliminate inconsistent, subjective determinations across agencies regarding which content or browsing activity is sensitive in nature, and create a stronger privacy standarde.
3. AES-256 encryption
 - a. The Advanced Encryption Standard (AES) specifies a FIPS-approved cryptographic algorithm that can be used to protect electronic data. The AES algorithm is a

symmetric block cipher that can encrypt (encipher) and decrypt (decipher) information.

4. IEEE-23026-2015
 - a. The goal of this standard is to improve the usability of informational websites and ease of maintenance of managed Web operations in terms of locating relevant and timely information, applying information security management, facilitating ease of use, and providing for consistent and efficient development and maintenance practices.

1.4 INTENDED USERS AND USES

Who benefits from the results of your project? Who cares that it exists? How will they use it? Enumerating as many “use cases” as possible also helps you make sure that your requirements are complete (each use case may give rise to its own set of requirements).

1. Hinckley Medical benefits
 - a. More organized inventory
 - b. Able to service clients who bought the product
2. People/Departments who bought the product benefits
 - a. Easy access to product information
 - b. Access to request replacement parts