
Software Requirements Specification

for

SpecEffect

Version 1.0 approved

**Prepared by Caramon Cotroneo, Grace Cochran, Steven Harrington,
& Eliot Cole**

Team Effigy - COS 420

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Revision History

Name	Date	Reason For Changes	Version
	2/19/2026	Initial setup	1.0

	2/26/2026	Added requirements and UI	1.1
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1. Introduction

1.1 Purpose

<Identify the product whose software requirements are specified in this document, including the revision or release number. Describe the scope of the product that is covered by this SRS, particularly if this SRS describes only part of the system or a single subsystem.>

1.2 Document Conventions

<Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement is to have its own priority.>

1.3 Intended Audience and Reading Suggestions

<Describe the different types of reader that the document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers. Describe what the rest of this SRS contains and how it is organized. Suggest a sequence for reading the document, beginning with the overview sections and proceeding through the sections that are most pertinent to each reader type.>

1.4 Product Scope

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. Relate the software to corporate goals or business strategies. If a separate vision and scope document is available, refer to it rather than duplicating its contents here.>

1.5 References

<List any other documents or Web addresses to which this SRS refers. These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.>

2. Overall Description

2.1 Product Perspective

<Describe the context and origin of the product being specified in this SRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. If the SRS defines a component of a larger system, relate the requirements of the larger system to the functionality of this software and identify interfaces between the two. A simple diagram that shows the major components of the overall system, subsystem interconnections, and external interfaces can be helpful.>

2.2 Product Functions

<Summarize the major functions the product must perform or must let the user perform. Details will be provided in Section 3, so only a high level summary (such as a bullet list) is needed here. Organize the functions to make them understandable to any reader of the SRS. A picture of the major groups of related requirements and how they relate, such as a top level data flow diagram or object class diagram, is often effective.>

2.3 User Classes and Characteristics

<Identify the various user classes that you anticipate will use this product. User classes may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience. Describe the pertinent characteristics of each user class. Certain requirements may pertain only to certain user classes. Distinguish the most important user classes for this product from those who are less important to satisfy.>

2.4 Operating Environment

<Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist.>

2.5 Design and Implementation Constraints

<Describe any items or issues that will limit the options available to the developers. These might include: corporate or regulatory policies; hardware limitations (timing requirements, memory requirements); interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer's organization will be responsible for maintaining the delivered software).>

2.6 User Documentation

<List the user documentation components (such as user manuals, on-line help, and tutorials) that will be delivered along with the software. Identify any known user documentation delivery formats or standards.>

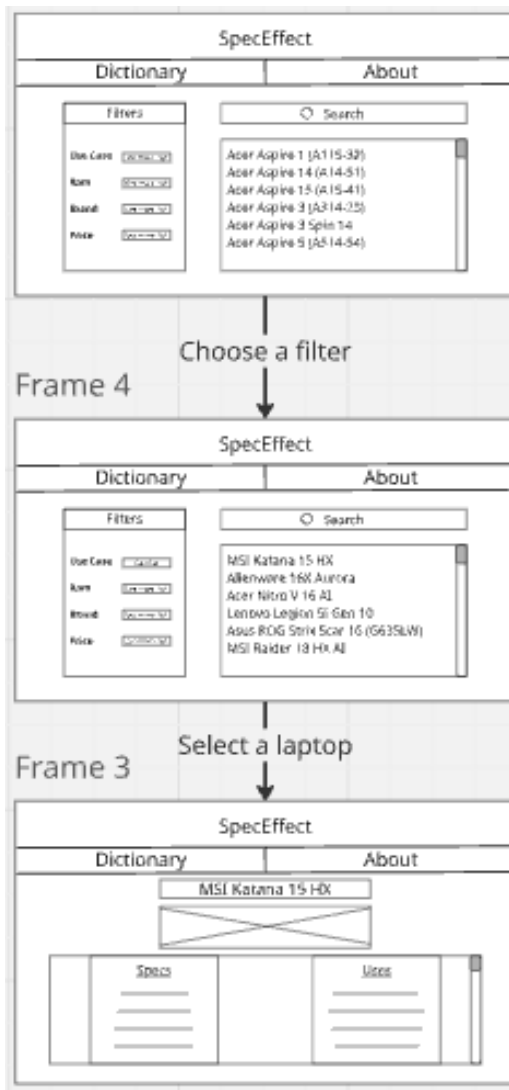
2.7 Assumptions and Dependencies

<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project, unless they are already documented elsewhere (for example, in the vision and scope document or the project plan).>

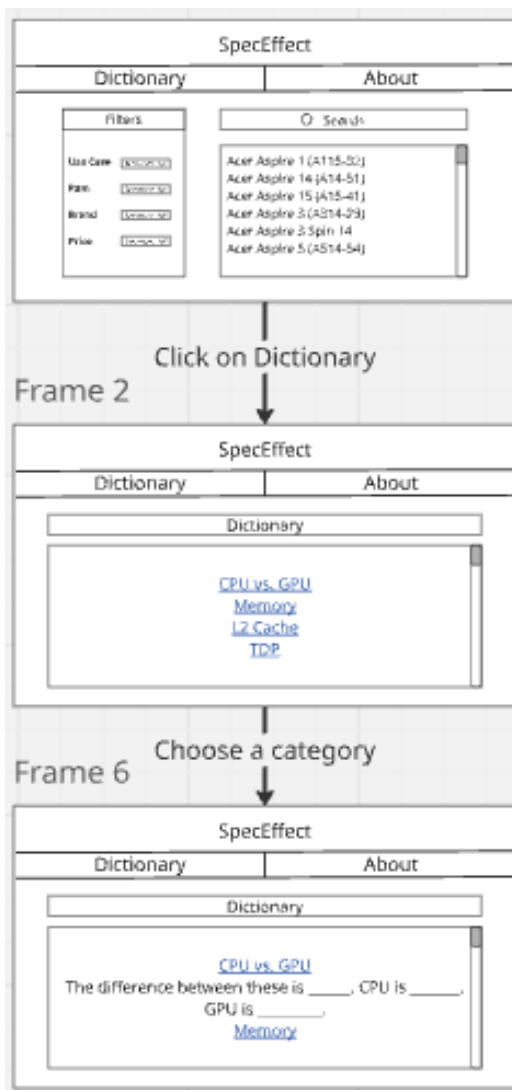
3. External Interface Requirements

3.1 User Interfaces

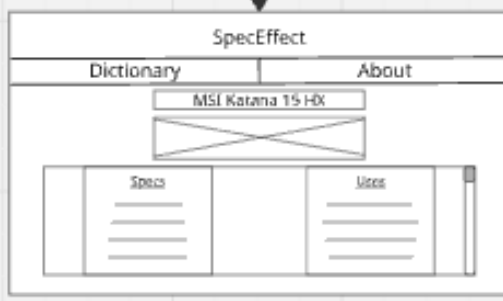
WIREFRAME 1:



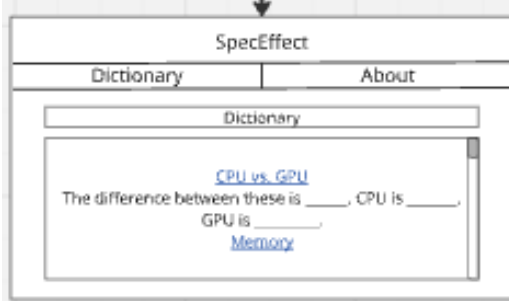
WIREFRAME 2:

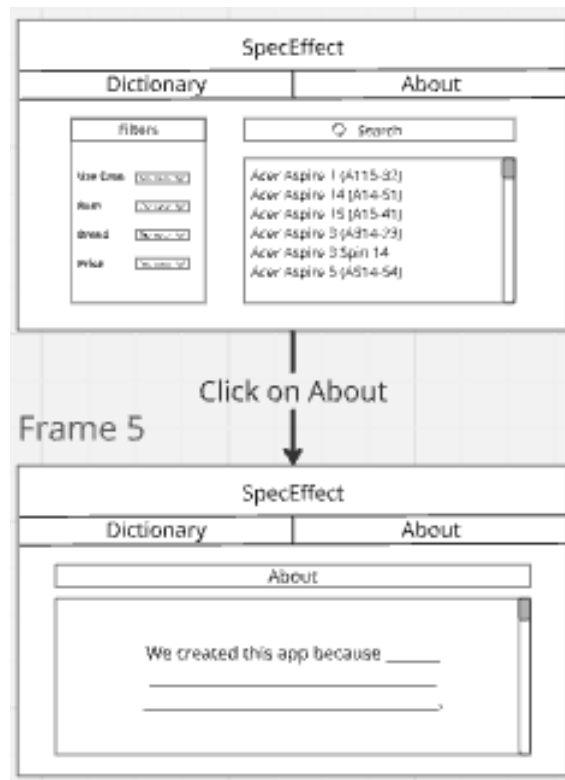


Frame 3



Frame 6



WIREFRAME 3:

SpecEffect will have three methods of navigation for tools offered. Upon opening the page, users will be placed in a home menu shown at the beginning of each wireframe diagram. Here they are given navigational links to access other pages of the site within the header, and are presented with a catalogue of devices in a scrollable menu towards the bottom with the option to select filters on the left and text search to find exactly what they are looking for. Users can click on a laptop item, in the form of a link, which will take them to a page dedicated to that device, presenting further information and an image of it as shown in Wireframe 1. These pages will also include additional links to relevant articles from the dictionary that further explain certain topics.

As depicted in Wireframe 2, the user can also select the “Dictionary” navigation link in the header to access a page containing information regarding individual terminology or further background on specific components or systems. For ease of use, the user can select from a list of categories to have the page automatically scroll to the relevant section. Additionally, users can click the “About” navigation link to access a page dedicated to our team and the purpose of the project, as shown in Wireframe 3.

SpecEffect will be designed for laptop or desktop computers, so the size of items will be large as depicted in the wireframes so information can be clearly visible. The header containing each of the navigational links will be present on all screens, as well as the SpecEffect logo which will take the user back to the homepage when clicked. All UI elements will adhere to the Web Content Accessibility Guidelines 2 (WCAG) to ensure individuals of all backgrounds can use and navigate the application with ease.

3.2 Hardware Interfaces

<Describe the logical and physical characteristics of each interface between the software product and the hardware components of the system. This may include the supported device types, the nature of the data and control interactions between the software and the hardware, and communication protocols to be used.>

3.3 Software Interfaces

<Describe the connections between this product and other specific software components (name and version), including databases, operating systems, tools, libraries, and integrated commercial components. Identify the data items or messages coming into the system and going out and describe the purpose of each. Describe the services needed and the nature of communications. Refer to documents that describe detailed application programming interface protocols. Identify data that will be shared across software components. If the data sharing mechanism must be implemented in a specific way (for example, use of a global data area in a multitasking operating system), specify this as an implementation constraint.>

3.4 Communications Interfaces

<Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.>

4. System Features

4.1 Laptop Search

4.1.1 Description and Priority

<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority. You could also include specific priority component ratings, such as benefit, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9).>

4.1.2 Stimulus/Response Sequences

<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>

4.1.3 Functional Requirements

REQ-1.1: The system shall allow the user to type the name of a laptop model into the search bar.

REQ-1.2: The system shall display to the screen a list of laptops matching the name entered in the search box.

REQ-1.3: The user shall be able to click on any of the displayed results of a search.

4.2 Laptop Filter

4.2.1 Description and Priority

<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority. You could also include specific priority component ratings, such as benefit, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9).>

4.2.2 Stimulus/Response Sequences

<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>

4.2.3 Functional Requirements

REQ-2.1: The system shall allow filtering by various properties.

REQ-2.2: The user shall be able to select any number of filters and see a list of all laptops matching those filters displayed on the screen.

4.3 Selected Laptop Info

4.3.1 Description and Priority

<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority. You could also include specific priority component ratings, such as benefit, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9).>

4.3.2 Stimulus/Response Sequences

<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>

4.3.3 Functional Requirements

REQ-3.1: The system shall display on the screen a list of metrics for the selected laptop.

REQ-3.2: The user shall be able to save the selected laptop to their favorites list.

REQ-3.3: The system shall display on the screen a computed “performance score” that combines multiple metrics for the selected laptop.

4.4 Tech-Vocabulary

4.4.1 Description and Priority

<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority. You could also include specific priority component ratings, such as benefit, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9).>

4.4.2 Stimulus/Response Sequences

<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>

4.4.3 Functional Requirements

REQ-4.1: The user shall be able to click on the dictionary button to change screens.

REQ-4.2: SpecEffect shall change to the dictionary screen when clicked.

REQ-4.3: The user shall be able to select a tech-vocabulary category to scroll to.

REQ-4.4: SpecEffect shall be able to scroll to the selected section automatically.

4.5 Info, when Hovering

4.5.1 Description and Priority

<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority. You could also include specific priority component ratings, such as benefit, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9).>

4.5.2 Stimulus/Response Sequences

<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>

4.5.3 Functional Requirements

REQ-5.1: The user shall be able to move their cursor over information to show a pop up.

REQ-5.2: SpecEffect shall access the definition of the keyword from its dictionary.

REQ-5.3: SpecEffect shall pop up a text box with the definition of the hovered keyword.

REQ-5.4: SpecEffect shall remove the pop up, when it no longer detects the cursor hovering.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

- After clicking a category button from the Glossary page, the system shall scroll the application window to the selected section within 2.5 seconds.
- The system shall update what entries of the laptop catalog are shown within 3 seconds after a user applies or removes filters.

- The system shall load individual laptop pages to the screen within 2 seconds.
- The system shall display laptop catalog search results to the homepage screen within 3 seconds after entering.

5.2 Safety Requirements

- When an invalid search input is entered to the homepage's search bar, the system shall display an error message below the bar instead of crashing.
- The system shall maintain a restorable backup of the catalogue database.

5.3 Security Requirements

- The system shall not allow unauthorized users to modify or delete catalogue data.
- The system shall use HTTPS for secure data transfer.

5.4 Software Quality Attributes

- The system shall function on the latest versions of Chrome and Firefox.
- The system's pages shall use consistent fonts, color schemes, and button styles.
- The system shall be usable & understandable to the point that a first-time user will be able to search for a laptop from the homepage's search bar without instructions within 2 minutes.

5.5 Business Rules

- The system shall only allow Team Effigy members and other authorized users to edit or update laptop entries.

6. Other Requirements

<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>

Appendix A: Glossary

<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>

Appendix B: Analysis Models

<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams.>

Appendix C: To Be Determined List

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>