Vendor Linking

1 Vendor Linking

1.1 Summary

1.1.1 Objectives

[These should describe the overall goal in developing the product, high level descriptions of what the product will do, how they are aligned to business objectives, and the requirements for interaction with other systems.]

- To link a vendor to our website.
- Allow vendors to create a vendor account to link their products.
- Allow users to view vendor products.

1.1.2 Background

[Provide a brief history of how the project came to be proposed and initiated, including the business issues/problems identified, and expected benefit of implementing the project/developing the product.]

Vendor linking was first brought up when we were talking about individual components once a build is chosen. Since our algorithm optimizes a build based on a budget, we thought to add links to purchase those individual items from various vendors. Issues that came with this feature involve how the linking happens. There are two options: using vendors' APIs and web crawling. Since some vendors don't offer an API, web crawling would be our next course of action in retrieving component information. In the case where a vendor wants to link with our website and doesn't have an API, we offer a vendor account which will allow a vendor to add/update/remove their own items.

1.2 Scope

[Describe what work is in scope for the project, and specifically what work is out of scope… beyond the current budget, resources and timeline as approved by the project stakeholders.

This is designed to prevent "scope creep" of additional features and functions not originally anticipated.]

1.2.1   In Scope Functionality

- Allow vendor accounts to link their own products.
- Allow vendor accounts to edit or remove their own products.
- Link a vendor to our website if they offer an API and add and update products automatically.

1.2.2   Out of Scope Functionality

1.3   System Perspective

[Provide a complete description of the factors that could prevent successful implementation or accelerate the projects, particularly factors related to legal and regulatory compliance, existing technical or operational limitations in the environment, and budget/resource constraints.]

1.3.1   Assumptions

- Components will be listed either on the components catalogue or user garage

1.3.2   Constraints

1.3.3   Risks

1.3.4   Issues

3   Business Requirements

[The specific business requirements elicited from stakeholders should be listed, categorized by both priority and area of functionality to smooth the process of reading and tracking them. Include links to use case documentation, and other key reference material as needed to make the requirements as complete and understandable as possible. You may wish to incorporate the functional and non-functional requirements into a traceability matrix that can be followed throughout the project.]

The requirements in this document are prioritized as follows:

Value	Rating	Description
1	Critical	This requirement is critical to the success of the project. The project will not be possible without this requirement.
2	High	This requirement is high priority, but the project can be implemented at a bare minimum without this requirement.
3	Medium	This requirement is somewhat important, as it provides some value but the project can proceed without it.
4	Low	This is a low priority requirement, or a "nice to have" feature, if time and cost allow it.
5	Future	This requirement is out of scope for this project, and has been included here for a possible future release.

3.1 Functional Requirements

| Req#	Priority	Description	Rationale
General / Base Functionality			
FR-G-001	3	Users can create a vendor account to add/update/remove their own products.	This feature isn't necessary for the user to use our application. Our main use is to assist in building a PC on a budget. This is handy for users/vendors to add price information and link their products.
FR-G-002	2	Vendors will be added if the vendor has an API.	This feature isn't necessary for the user to use our application. However, it's helpful for the user to get a rough estimate of how much top companies sell products for.
Security Requirements			
FR-S-001	1	Since vendors will be publishing products, they will need access to our database. Posts to the database must be through a parameterized query.	We are preventing SQL injection attacks. If we don't, anyone can delete information from our database.
Usability Requirements			
FR-U-001	1	User interface will allow users to easily add a vendor account and their products.	UI/UX is important. If a user doesn't like how our website looks or if it's difficult to navigate, they'll look for another website.
Audit Requirements			

ID		Requirement	
FR-A-001	4	Any changes made to a vendor's product will be logged.	

3.2 Non-Functional Requirements

[Include technical and operational requirements that are not specific to a function. This typically includes requirements such as processing time, concurrent users, availability, etc.]

ID	Requirement
NFR-001	Vendor data will be refreshed every 6 hours.
NFR-002	Vendor listings that have not been updated within 30 days will be removed.
NFR-003	All changes to a vendor's account or their products will be logged.

4 Diagrams (NOT FINAL, AN EXAMPLE)

Manage items activity diagram
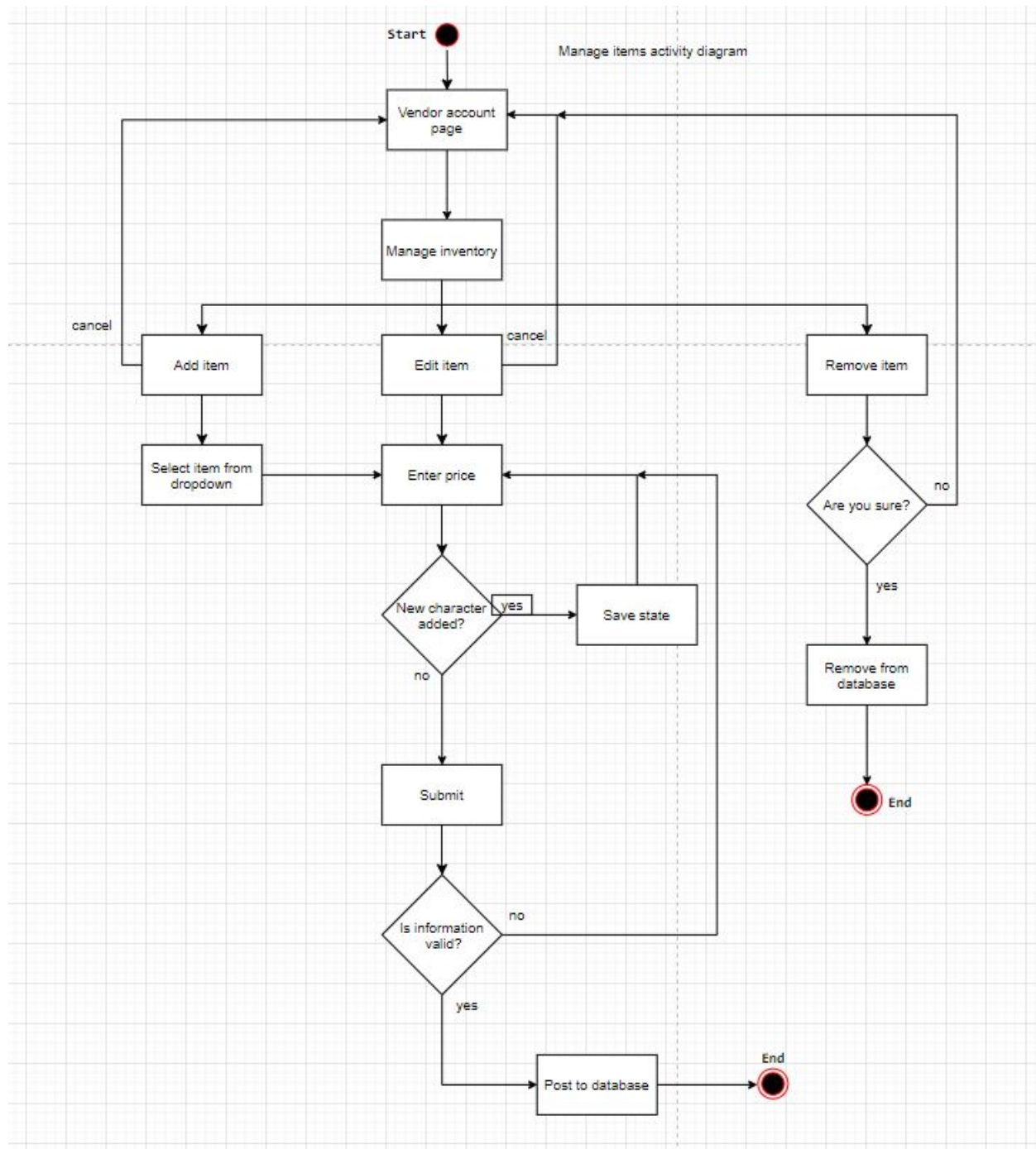
5 Appendices

5.1 List of Acronyms

[If needed, create a list of acronyms used throughout the BRD document to aid in comprehension.]

API - Application programming interface.

5.2 Glossary of Terms

[If needed, identify and define any terms that may be unfamiliar to readers, including terms that are unique to the organization, the technology to be employed, or the standards in use.]

Vendor account - A registered user who has permissions to add themselves as a vendor.

API - Short for Application programming interface. An interface that defines the kinds of calls or requests that can be made, how to make them, the data formats that should be used, the conventions to follow, etc.

Parameterized query - A pre-compiled SQL statement where you only need to provide a parameter. This is mainly used to prevent SQL injection attacks.

4.3 Related Documents

[Provide a list of documents or web pages, including links, which are referenced in the BRD.]

Success: Vendors will be successfully linked allowing full controls to managing their own products on their vendor page.

Failure: Vendors are unable to link their business and will then search for a different website that offers such.