**Proposal Document For**

Multi-vendor Marketplace for Medical equipment
**Feature summary, Work plan**

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**Understanding and Approach**

Based on our discussion, we understand the requirements are to develop a professional Multi vendor platform where different manufactures can login, select the products they want to show on our portal and complete cart/checkout system as well.

The platform will be used by Vendors/ manufactures, each having access to a very large amount of products, which we get from the public API of FDA. The platform will be available for registered and approved vendors to select the product they manufacture/deliver and allow them to display on our platform.

The platform will have following modules

# 1. Shopify store

This Multi vendor marketplace is meant for -:

**- Individual users (who will buy equipment)**

**- Vendor/Manufacturers**

So Vendor can sign-up through a page and login to their dashboard once they are approved by platform admin. Once they login to their dashboard, we can show them the products related to them. This can be done using the manufacturer identifier we have from the API.
Vendor can then select the products they want to show on our platform and once submit their request, the product will be start displaying.

* **Dashboard Features for Vendor/Manufacturer :**
1. Ability to set their profile, our platform will provide a way to market vendor’s profile, fields can be like:
* First Name
* Last Name
* Bio – something about the vendor (like 5-6 lines intro)
* Company name
* Company logo
* Address, contact number etc.
1. Ability to select which products from the list of their products, they want to show on our platform:
* Product list
* Checkbox on each product
* List 50 products on each page and rest pages in bottom
* Vendor can select as many product as he wants and click “Submit”.
* Selected products will be visible on platform front end.
1. Ability to edit and update the profile information like name, contact, address etc anytime.
2. Ability to view their products in back-end.
3. Ability to set/change password once their account approved.
4. Vendors will pay monthly subscription fee which will need to be subscribed at the time of sign-up. The payment will be recurring based on their subscription.
5. Ability to see their subscription in their dashboard.
6. Ability to manage Product placement within their specific product category codes. This service will be chargeable and we need to discuss this with Ben in detail.
* **Product import – FDA API:**
1. We need to create a script to import products in our store. There are more than several million products we are looking to get. The information may consist (but not limited to):
* Product Title
* Product code
* Device class
* Classification name
* Registered establishment name
* Registered establishment code
1. The script will run on a fixed interval every time and will import a fixed amount of products in Shopify store.
2. Another possibility is to get all products in zip format and in that case the script will get the products from there and import in store.
3. There is no need of custom database in this process because we will import products in Shopify store directly using their API.
* **Front end User Interface:**
1. Ability for users to sign-up/login on the store.
2. Ability to buy product and create an order.
3. Ability to pay on store using different payment methods.
4. Ability to check the static pages, complete cart system like shipping etc.
5. Ability to check category pages, search products by name, category, type and vendor etc.
6. Ability to finance their purchase (Ben need to provide more information on this), for now we consider that this will be something like “Affirm”: <https://www.affirm.com/press/releases/affirm-to-power-shopify-shop-pay-installments>.

# 2. Custom App

**Custom App,** is the solution for everything which we need to create which shopify normally don’t provide. Custom apps installed on store and work on one store only. We will create the custom App to complete the multi vendor part of the project. It will include every tasks coming under this section. There are pre made shopify paid Apps available for this, but we will create our own custom so that we can have the access for full code and can extend or change according to the need, going further.

The App will have these pages/sections:

* **Back-end:**

In Shopify back-end we will show the app default page, which will basically show list of all vendors/manufacturers for admin. The listing will show 50 vendors at one page and rest with pagination in bottom. On click, each vendor page will open where we can see their profile information, and any other information which we can discuss later. It is need to discuss if there will be a fixed percentage fee on products for each vendor or it will be vendor specific. This we need to discuss.

* **Front-end:**

For vendors, their dashboard page will be built, where they can see their profile information and other information like a my account page. Once they login, they will be redirected to this page. Here they can also maintain their products etc.

* **Vendor registration and login:**

These pages will be custom built too, using the custom App. We will give option for vendors to sign-up on the platform and login using their Registered establishment number, which will uniquely define the vendor. Based on this number we will get the vendor name and based on vendor name, we will get the products related and show to them once they login to their account. A verification of account by admin is needed.

# 7. Technology

We will use Laravel PHP framework for custom App development. The store will be in Shopify.

Required from client:

1. Linux hosting.
2. A domain for the App.
3. SSL for this domain of the App.

# 7. Cost and time

As we are not aware with detailed requirements here, we can provide a very rough estimate based on the discussion.

The time needed for store setup, product import and custom app (vendor module) will be around **550 hours** but it can vary as per the final task list we provide which will be approximately correct estimate.

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Here are some more points mentioned:

1. Are we planning to use an existing marketplace plug-in that covers all the bases but ability to customize if we need to enhance? The one I sent over before looked pretty robust? Just need to make sure we can build on it for added features.

**Comment**: I thought to use the plugin but we will not be able to edit it later because Shopify public Apps not have code on your store. They have their own hosting. So, we will create our own custom app, which will be stored on your server only so we can do changes according to the ongoing development requirements.

2. However the “Recall” API is important. If product is unsafe and Recalled, we need to remove from site automatically.

**Comment**: Sure, we will create a web-hook for this, so if any “Recall” product found, we will remove it from store using delete API of Shopify.

3. There is also an “incident report” API-would be great to link those reports to their associated products.

**Comment**: Can you explain this one? Do you want a “Report incident” page for users to send feedback about any product?

4. For vendors, we will need them to have ability to update their inventory, lead times, pricing tiers for bulk order discounts, multiple ship-from addresses, etc.

**Comment**: Okay, we can create these sections for vendors, the estimate may increase a bit for these modules. However we need to discuss these modules except ability to update their inventory.

5. Vendors need ability to enhance products with images, video, attachments etc.

**Comment**: Yes, vendor will have edit access to their products, so they can open any product and edit/update information like price, inventory, images, video, description etc.

6. We need to create a section for each of the doctor types that will contain the category code links for the products they need to run their practice.

**Comment**: Does it mean you want a separate section for users on front, which will be doctor specific? Will this feature be subscription based?

7. How many developers will work on the project? What is the time estimate to do the 550 hours?

**Comment**: We will start with one senior developer, and eventually may add more developers according to the requirement as we move further in development. I anticipate initial development time of around 3-4 months and rest we can manage according to what features we discuss going forward.

\* Please note I did not include features like “incident report”, pricing tiers for bulk order discounts, multiple ship-from addresses etc in the estimate, but we can let you know how much time these going to take as we move forward with development.

Thanks