

DOPIO – the Software Builder

Executive Summary

We are developing breakthrough technology in the fields of computing and Software Application development, utilizing Artificial Intelligence techniques. We are introducing totally automated Application Software building through the platform we are developing. The venture we have embarked on has substantial Technological and Social impacts. Technological impact in the radical cost reduction in building Software Applications, similar to the impact that Henry Ford's assembly line had to the production of automobiles. Social impact through decentralization that democratizes the benefits flowing from the technology breakthroughs.

Working with clients, we have developed an early prototype of the platform. We propose to proceed with Option 1 (Detailed below): Work with two top tier clients for ongoing feedback, while continuing the development of the platform and the Software Marketplace (described below). The rationale of the recommendation follows.

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What is DOPIO – tSB?

DOPIO – tSB (Data, Operations, Process, Input, Output – the Software Builder) is a software platform that enables automated building of software applications (SAs) from User defined Data, Operations, Process, Inputs, and Outputs. The software platform makes recommendations to the User that can be accepted as is or customized as required. The User does not code any part of the Software Application. The Artificial Intelligence engine of the tSB platform builds the Software Application automatically.

What the Assembly Line was to the manufacture of automobiles, in terms of cost reduction, DOPIO - tSB is to the building of Software Applications.

Our invention includes two components:

1. Notional Programming (NP), and
 2. The Software Builder (tSB) Artificial Intelligence engine.
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1. Notional Programming (NP) is a higher level of programming abstraction that enables:
 - a. Reusability of code components, very much like Lego pieces, and
 - b. Composability of components into Software Applications, and Software Applications into Enterprise Systems, much like putting together Lego pieces.
 2. The Software Builder is the Artificial Intelligence engine that enables the automated building of Software Applications. The tSB platform provides templates to the user for acceptance as is or customization by the user, to tailor to the exact needs of the user. The User does not perform any coding during the building of the application.

Notional Programming and the Software Builder work together to provide breakthrough paradigms in computing and the automated building of Software Applications. The mathematical foundations of both Notional Programming and the Software Builder are the Intellectual Property of our venture.

Our Vision for the product.

Our vision is to create:

1. An online platform, and
2. An online Software Marketplace.

1. The online platform:

- a. users can develop software applications for their own use or sell the software on the tSB online Software Marketplace,
- b. the online platform will be similar to www.canva.com
- c. the ongoing platform development is taking place through subcontracting across the country and beyond.

2. The online Software Marketplace:

- a. Will be similar to the Amazon Web Services (AWS) marketplace
<https://aws.amazon.com/marketplace/>
- b. The technical support organization for tSB Software Application building and marketing are part of the online Software Marketplace
- c. The technical support organization ensures quality control of the software build and sold.
- d. The marketing support organization supports the software builders to ensure their success and fair compensation and incentives.

The nature of the product and organization has substantial Social Impact. The Social Impact flows from the leveling of the information technology field. TSB enables technology entrepreneurs to set up their venture easily and quickly. A vetting process is in place to ensure quality product and service throughout the platform.

Current stage of development.

We developed an early prototype of the platform. On this prototype we have tested the development of a CRM, an Accounting system, and a Project Management system. We are now using the Project Management system to track the tSB project. Additional testing in other areas will be done.

Next steps and Options.

The **next steps** include:

- a. follow up from the Prototype testing, and
- b. complete the Version 1 MVP (Minimal Viable Product).

The **Options** include:

1. Work with two top tier clients for ongoing feedback, while continuing the development of the platform and the Software Marketplace.
2. Continue working with various clients and roll out Version 1 of the platform in a staged approach.
3. Work with various clients and pursue an intensive development of the platform to take an integrated solution to market sooner.

Recommendation.

We recommend Option 1 (above).

Pros

To enable us to stay in touch with client needs and obtain ongoing feedback.

Develop the platform and infrastructure for a paradigm shifting technology in a low-key manner that enables continuous growth and diversity.

Allow us to develop the technology and Infrastructure sufficiently to introduce the product in a dynamic way that takes the market by storm.

Cons

The approach delays the time for the introduction of the technology.

A slower approach to the introduction of the technology does run the risk of losing the competitive advantage we enjoy at present.