Vision Document for the

Finder Web Application System

Defining User, Goals, and COTS components

**Team members**

**Trần Thái Dương, Đỗ Đức Cường,**

**Đỗ Đình Dũng, Nguyễn Thành Huy, Nguyễn Hữu Phước**

# Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 25/4/2024 | 1.0 | Preliminary version of Finder Web Application | Trần Thái Dương |
|  |  |  |  |

# Table of content

[**1. Introduction**](#_8zvz0wo7sj6k) **3**

[1.1 Purpose](#_kitxt9zewnn8) 3

[1.2 Scope](#_lmm219l1igvl) 3

[**2. Positioning**](#_eqn6hc44eape) **3**

[2.1 Business Opportunity](#_tlqpw1oct4mn) 3

[2.2 Problem Statement](#_jed7py8ypm1z) 3

[2.3 Product Position Statement](#_8nlc7arh1b9g) 3

[**3. Stakeholder and User Descriptions**](#_hw1injg3dbt8) **4**

[3.1 Market Demographics](#_kw4yecpqzsa2) 4

[3.2 Stakeholder Summary](#_5eczf0dluydg) 4

[3.3 User Summary](#_2biry18y9q9k) 4

[3.4 User Environments](#_ftc58p4y9ism) 4

[3.5 Stakeholder Profiles](#_8allhbmlpu1v) 4

[3.5.1 Internet User](#_klcllkr3z98z) 4

[3.6 User Profiles](#_gu7lsi3rvres) 5

[3.7 Key Stakeholders or User Needs](#_whv1moi03owh) 5

[3.8 Alternative and Competition](#_j9ezgijui6v7) 5

[**4. Product Overview**](#_3n01932s3zel) **6**

[4.1 Product Perspective](#_omyq3v7efdty) 6

[4.2 Summary of Capabilities](#_9k8vru915ogh) 6

[4.3 Assumptions and Dependencies](#_l19nnvml3g32) 6

[4.4 Cost and Pricing](#_2taifig50nbp) 6

[4.5 Licensing and Installation](#_9ykumg90krjs) 7

[**5. Product features**](#_10sx9hav285y) **7**

[5.1 Start system](#_iao5c01ec8oe) 7

[5.2 Shutdown system](#_a5xqhfps6t0h) 7

[5.3 View status of system](#_e78gi6qy4erd) 7

[5.4 Create a new event](#_hz74gw7fpen9) 7

[5.5 Modify existing events](#_vjfobas0m8v0) 7

[5.6 Cancel event](#_1lu55y8blbdg) 7

[5.7 View status of created events](#_hudrnbnyl2yh) 7

[5.8 Search for event](#_38rzqcc2x7tu) 7

[5.9 View event details](#_b2truyhjyf1l) 7

[5.10 Join event](#_dnudazlmd008) 7

[5.11 Leaving event](#_lp8vl9966avp) 7

[5.12 View status of joined events](#_8x37km8mjxf0) 7

[5.13 View details of user in the events](#_yqlhmo74y1o1) 7

[5.14 Update profile picture](#_v4gyo9rs2l3b) 7

[5.15 Update contact](#_pqkwsr37edae) 7

[5.16 Update user description](#_nsb43mm7mfz8) 7

[5.17 View status of all events](#_uadpro2fwj8x) 8

[5.18 Remove joined/hosted events](#_v1gfsu4zd1vu) 8

[**6. Constraints**](#_ktomim9fa8nw) **8**

[6.1 Security](#_s6tmkpotjsn5) 8

[6.2 Usability](#_pa7wzap3wasm) 8

[6.3 Responsiveness](#_6olagks8edhc) 8

[6.4 Capacity](#_73dzkh8h1o) 8

[**Appendix A. COTS ComponentsMongoDB**](#_mucf11epkcvc) **8**

# 

# 

# 

# 

# 

# 

# 

# 

# 

# 

# 

# 

# 

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to collect, analyze, and define high-level needs and features of the Finder Web Application System. It focuses on the capabilities and services provided to the target users, and why do the users need these services. The details of how the Finder Web Application System fulfills these services are specified in the use-case and supplementary specifications.

## 1.2 Scope

This Vision document applies to the Finder Web Application, which will be developed by a team of developers. The team will develop this client-server system as an interface for target users to communicate with each other. The Finder Web Application will allow users to communicate and exchange information via description texts. Users can create, modify, and read description texts about an event that they create or about themselves in their profile.

# 2. Positioning

## 2.1 Business Opportunity

## 2.2 Problem Statement

| The problem of | lacking dedicated functionality to search and schedule events in social media applications |
| --- | --- |
| affects | social media users |
| the impact of which is | missing the opportunity to interact with other social media users in real world events |
| a successful solution would be | a simple web application that can be used by anyone. The product would act as a supplement to existing social media platforms. While other social media platforms help users to connect and create new relationships, this product will help them to set up a schedule and search for events that allow them to meet up with other users. |

## 2.3 Product Position Statement

| For | existing Internet users |
| --- | --- |
| Who | Desire more than mere virtual social connection, and want to have real life social interaction |
| The Finder Web Application | is a software |
| That | allow users to create new schedules for social events so that others who look for social events using a range of filters to suit their preferences can join |
| Unlike | currently available social network applications that mainly focus on sharing user information like photos, writings, videos,... or text messaging. |
| Our product | focusses on scheduling social events, users create, manage, and join many social events. The product also notify users of upcoming events. |

# 3. Stakeholder and User Descriptions

## 3.1 Market Demographics

## 3.2 Stakeholder Summary

## 3.3 User Summary

| **Name** | **Table** | **Responsibilities** | **Stakeholder** |
| --- | --- | --- | --- |
| Internet user | Primary end user of the system | Create a new schedule for a social event, look up for new social event to join, modifying publicly displayed information, view other user public information, create and manage account, update private account information, receive notification about activities of an event’s schedule | Self |

## 3.4 User Environments

Users can access the Finder Web Application via the Internet. Internet connection is required in order to access the system. The following web browsers for mobile devices and computer devices are supported: Chrome, Safari, Firefox, Opera.

## 3.5 Stakeholder Profiles

### 3.5.1 Internet User

| **Representative** |  |
| --- | --- |
| **Description** | A private individual that will use the system for searching, joining, and hosting an social event |
| **Type** | A casual user, might have used other social media platforms before |
| **Responsibilities** | Ensure that the application is simple to use, has smooth user experience, and effective. |
| **Success Criteria** | The success is defined by the user's high frequency of use of the product. |
| **Involvement** | We will have sample customers to help evaluate our design and market research results will also guide our vision. |
| **Deliverables** |  |
| **Comments/Issues** |  |

## 3.6 User Profiles

See previous section

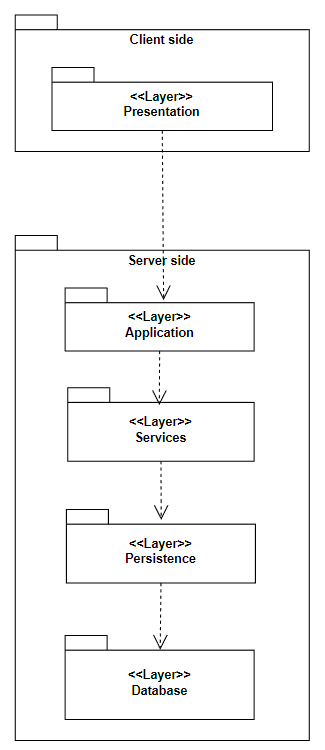
## 3.7 Key Stakeholders or User Needs

| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solution** |
| --- | --- | --- | --- | --- |
| Secured access | High | Management of private information | User access their accounts using email or username, and password | None |
| Scalable | Moderate | Total number of concurrent users | None | None |
| Easy to use | High | Intuitive user interface and control flow of the application | None | Simple user interface with minimalistic design, buttons have semantics to let users know what it does. |
| Responsive | Moderate to High | Quick update and response time upon multiple user’s interaction | None | Use ReactJS DOM to keep track of states and change web pages faster. |
| Adaptive | Moderate | Ability to adapt to specific user’s preference | None | Use cookies to store user activities. |

## 3.8 Alternative and Competition

# 4. Product Overview

## 4.1 Product Perspective



**Figure 1. Overview of the Finder Web Application System Architecture**

## 4.2 Summary of Capabilities

| **Customer benefits** | **Supporting features** |
| --- | --- |
| **Flexible and convenient access to the system** | Application supported and can be accessed across multiple devices and operating systems. |
| **Security and Privacy** | User authentication |
| **System responds quickly** |  |
| **Planning an event with ease** | Users are provided with options to create events that suit their personal preferences.  **Event description**  When creating an event, users can write an optional text description that should provide information about the event they are hosting or some extra information that they want.  **Event time/location**  Users are provided with a flexible way to choose the time for an event. Users can choose a specific location from Google map API or just simply text information about the location.  Users can choose specific date and time for an event’s starting time and ending time.  **Event name**  Users can choose event names to their liking.  **User capacity**  Hosts can choose the maximum number of participants for the event or set no limit at all. |
| **Customized experience when searching for events** | Users are provided with a set of filters that helps them find events that match their personal preferences. |

## 

## 4.3 Assumptions and Dependencies

The Finder Web Application is developed using a component based software engineering approach. A collection of components identified is in Appendix A.

## 4.4 Cost and Pricing

To be determined.

## 4.5 Licensing and Installation

# 5. Product features

## 5.1 Start system

The Internet user goes to Finder Web Application websites using a web browser with internet connection then signs into their account using email/username and password.

## 5.2 Shutdown system

The user may either sign out of the system or end the web browser process and keep their account signed in.

## 5.3 View status of system

Users can state the system which includes their account information, other user’s public information, and updates of schedule of events.

**The following features relate to creating/hosting an event**

## 5.4 Create a new event

## 5.5 Modify existing events

Modify the information of an event, the modified information must be notified to the event’s participants.

## 5.6 Cancel event

Cancel the event that the user is hosting, this event will also be canceled for all event’s participants.

## 5.7 View status of created events

**The following features relate to searching/joining and event**

## 5.8 Search for event

## 5.9 View event details

## 5.10 Join event

## 5.11 Leaving event

## 5.12 View status of joined events

## 5.13 View details of user in the events

**The following features relate to updating user description**

## 5.14 Update profile picture

## 5.15 Update contact

## 5.16 Update user description

**The following features relate to managing events**

## 5.17 View status of all events

View a list of events where the user is currently a host/participant or events that already happened where the user is a host/participant.

## 5.18 Remove joined/hosted events

Removing past events displayed in the user's event list.

# 6. Constraints

## 6.1 Security

Security for the Finder Web Application includes authentication, access control, data integrity, and data privacy.

Authentication of the user is by email address or username and password.

Users can view the changes made to the system and make changes to the system.

## 6.2 Usability

Easy to use

User should know how to use the application after about 15 minutes

## 6.3 Responsiveness

System responds quickly to user requests or changes in the environment.

System should respond within 2 seconds on average for users with stable internet connection.

Users should receive changes after changes in the environment are made within 2 seconds.

## 6.4 Capacity

Maximum concurrent number of user is fifty (50)

# Appendix A. COTS ComponentsMongoDB

Product Name: MongoDB

Vendor: MongoDB Inc.

Overview: MongoDB is a source-available cross-platform document-oriented database program. It is classified as a NoSQL database program and uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL).

Additional Information: [MongoDB Official Website](https://www.mongodb.com/lp/cloud/atlas/try4?utm_source=google&utm_campaign=search_gs_pl_evergreen_atlas_core_prosp-brand_gic-null_apac-vn_ps-all_desktop_eng_lead&utm_term=mongodb&utm_medium=cpc_paid_search&utm_ad=e&utm_ad_campaign_id=12212624377&adgroup=115749709583&cq_cmp=12212624377&gad_source=1&gclid=Cj0KCQjwltKxBhDMARIsAG8KnqW_m6VXcGa0eFUabp-ESqvw-AQTQxCYxueyPBjVXiRS0WX6BqwjogMaAs4FEALw_wcB)

Product Name: Express.js

Vendor: OpenJS Foundation

Overview: Express.js, or simply Express, is a back end web application framework for Node.js, released as free and open-source software under the MIT License. It is designed for building web applications and APIs. It has been called the de facto standard server framework for Node.js.

Additional Information: <https://expressjs.com/>

Product Name: React.js

Vendor: Facebook, Inc.

Overview: React (also known as React.js or ReactJS) is an open-source, front end, JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications.

Additional Information: <https://react.dev/>

Product Name: Node.js

Vendor: OpenJS Foundation

Overview: Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser1. Node.js lets developers use JavaScript to write command line tools and for server-side scripting—running scripts server-side to produce dynamic web page content before the page is sent to the user’s web browser1.

Additional Information: <https://nodejs.org/en>