**PROJECT PROPOSAL**

**TrainE**

Version 2.1

Prepared By: Development Hell

Class: CECS 491-04

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[Github Repository](https://github.com/DevelopmentHellaHell/SeniorProject)

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**Table of Contents**

[**Overview**](#_cvvu0yxj5i7v) **3**

[**Project Description**](#_tk3w1wyt25gj) **3**

[Value](#_oknqj8qi83gb) 3

[Project Scope](#_9lxjp5sw0dx) 3

[Application Type](#_1gqkyf74q7uz) 3

[Supported Culture](#_o4iyindz7gne) 3

[Supported Client](#_7pe8v5nc84xw) 3

[Target Audience](#_ceuctrkdom5v) 3

[Product Scope](#_17i7bhts5mf9) 4

[Common Components](#_k0l09pl4vxx6) 4

[Specific App Features and Scope](#_87r15q2piteq) 4

[**Competitors**](#_1yybswfodho4) **6**

[**Delivery Timelines**](#_s9x8rs3koour) **7**

[**Vision**](#_mw99nwjy01fz) **7**

[**References**](#_jmt0tn7r4n6p) **9**

# **Version History**

| **Version** | **Overview** | **Date** |
| --- | --- | --- |
| v1.0 | Team submission to Vong | September 8, 2022 |
| v2.0 | TN, BT - New format, Table of Contents, Competitors | September 14, 2022 |
| v2.1 | JS, KD, DK - Revisions to: Introduction, Glossary, Version History, Competitors, Project Description Features, Formatting | September 15, 2022 |
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# **Glossary**

| **Term** | **Definition** |
| --- | --- |
| Trainer |  |
| Patron |  |
| SPA |  |
| authentification |  |
| authorization |  |
| accessibility |  |
| error handling protocol |  |
| milestone |  |
| goal |  |
| progress tracking timeline |  |

# 

# **Introduction**

A common, everyday problem people experience is running out of time. Many would love to be able to focus on self-growth by picking up new skills and hobbies. On top of all the effort spent debating which hobby to learn and carefully choosing what weekends you want to relax, finding a quality resource to not waste your time on is a challenge in itself. In today’s fast-paced world it’s difficult to devote so much of yourself on such a consistent basis.

TrainE offers a user-friendly platform for beginners and amateurs to connect with skilled Trainers to learn and improve on existing skills in a flexible, pain-free process. Trainers can showcase their skills to potential Patrons while acting as a bridge of communication. This seamless process is aided with our intuitive bookmarking system which utilizes calendar milestones, activity goals, and progress tracking.

# 

# **Project Description**

### **Value**

Ease and streamline the overall learning process for individuals who want to learn or expand a new subject, and for those who teach those subjects

1. Combine the most unnecessarily complex components of trying to find a Trainer (availability, quality, communication, etc.)
2. All-in-one scheduler of Patron-Trainer plans to prevent miscommunication and frustration while also encouraging steady progress towards an end goal

### **Project Scope**

#### Application Type

Single - Page Web Application

#### Supported Culture

Language: U.S English (en-US)

Unit: Imperial System (en-US)

#### Supported Client

Chrome 104.x (64 bit)

#### Target Audience

TrainE’s first iteration will serve internet users with constraints as following:

1. California resident
2. Age of 14 and older

More specifically, there are 2 sets of audience can find TrainE useful:

1. Trainers: who provide specific plans for their training services such as dancers, personal Trainers, hobby instructors, etc
2. Patrons: who seek for a realistic plan, a motivating coach, and tools to keep them accountable in reaching their end goal.

### **Product Scope**

TrainE as a complete application will include the following features and their scope

#### Common Components

1. Authentication features: The first requirement for users to utilize the app
   1. Login with an existing account.
   2. Logout of the current account
2. Authorization features: Allow different levels of accessibility
   1. User Access Control (UAC)
3. Logging features: Support development team in the process such as action history, debugging, user support
4. Log archiving: Offload the aged database to save room for the newer one
5. User management: Allow users to self-serve some basic features
   1. User registration:
      1. Require a valid email
      2. Require to set a password
   2. Account recovery when users forget password or need to reset password
   3. Account deletion when users want to terminate their usage from the app
   4. Update profile
   5. Update permission (update UAC) to set more/less access privilege
6. Error handling protocol for:
   1. Invalid input
   2. Runtime error guarding
   3. Display warning/message for users when error occurs
7. Analytic dashboard to track user traffic, features’ performance

#### Specific App Features and Scope

1. Profiles for both Patrons and Trainers: Keep account types clear and easy for individuals to differentiate.
   1. Two different account types for Patrons and Trainers
   2. Customizable profile page
   3. Availability
   4. Viewable Trainer plans
   5. Button to report a user when viewing their profile

**Profile:** Two different accounts will be available upon account registration depending on the user’s intent: Trainers and Patrons. Each account will have a dedicated profile page listing the user’s availability, interested topic, and in the case of a Trainer, a previewed plan for learning and Patron ratings. A report button is embedded into the profile page in the case of [not very good and frankly bad] behavior.

1. Connect with a Trainer: The use of multiple methods allows for a more user-friendly transition into the app, depending on a Patron’s preference.
   1. Search for a Trainer
   2. Invite code
   3. Goal affiliation suggests a Trainer

**Connections:** The use of multiple methods allows for a more user-friendly transition into the app, depending on a Patron’s preference. A Patron can sign up with Trainers via a search function or if they have a particular Trainer in mind, an invite code. The search function can filter results based on interest and availability. Patrons will also have Trainers suggested for them to reach a goal once it has been set within their profile. These all help to encourage a Patron-Trainer connection.

1. Plan Management: Eases the process of creating long-term plans through segmentation and division of time and progress.
   1. Event creation
      1. Modifiable template
      2. Unique to Patron
   2. Milestone Creation

**Plan Management:** Patrons and Trainers will be able freely create and edit plans they set along their journey. Once a Patron goal has been set, a Trainer can assign a learning plan to a Patron’s personal calendar to meet their goal. The learning plan can be modified based on each individual’s learning speed and goal due date. Trainers can add milestone events to the calendar to motivate Patrons towards their goal by celebrating their progress.

1. Unified calendar: Creates an easier and more effective method of viewing, filtering, and managing upcoming events between multiple Trainers and Patrons.
   1. Patrons can see all of their Trainers’ plans
   2. Trainers can see all of their Patrons’ plans
   3. Session scheduling
   4. Import/export calendar
   5. Filtering calendar to specified plans

**Unified Calendar:** An easy way for the Trainers and Patrons to be synchronized on meeting dates, plans, and future milestones. The Trainers and Patrons will be able to select a date and propose a session meeting to their counterpart. Users can filter their calendar, clarifying the view for those who are enrolled in multiple plans. Exporting the calendar plan will be made simple for those who prefer viewing their own, everyday calendar.

1. Progress tracking: Allows for smooth coordination, minimal friction between Patron and Trainer, and a way to monitor the progress towards their eventual goal.
   1. Overall goal
   2. Creating and editing milestones
   3. Patron and Trainer agree on changes to goal timeline
   4. Progress on each milestone
   5. Marks of success for each milestone (being able to do some smaller task)
   6. Comments on previous sessions

**Progress Tracking:** Tangible results in learning can be observed through the calendar’s progress tracking function. The progress tracking function is represented as a timeline. Patron milestones will be viewable on the timeline. By creating and meeting milestones, a Patron can easily see the progress being made towards their end goal. Should a Patron wish to change their goal, they can coordinate with their Trainer to decide on the next course of action as well as whether or not the timeline should be altered.

1. Rating systems: Increases comfort of Patrons and Trainers in their search and creation of new Patron-Trainer relationships.
   1. Patrons will be able to rate/comment on their Trainer's profile after their first session
   2. Trainers will be able to rate/comment on their Patron's profile

**Rating Systems:** Patrons will have the ability to rate Trainers on a scale based on the satisfaction of their interaction. Optionally, comments can be made on Trainer pages about their experiences.

1. Messaging: Streamlines the process of coordinating, planning, and executing Patrons’ plans.
   1. Establish contact between Patron and Trainer and discuss options

**Messages:** An in-app messaging service will be included to facilitate discussion between Patrons and Trainers.

1. Notifications: A common necessity for a scheduler in order to keep users up-to-date.
   1. Configuration of notification methods
   2. All plan changes, messages, and notifications will display here

**Notifications:** A filterable list for users to be able to keep track of any plan changes or messages. The user can configure their notifications and contact methods in order to avoid spamming the user with unwanted information.

# **Competitors**

* **Acuity Online Appointment Scheduling** (<https://acuityscheduling.com/>)

Acuity is a service used to create a digital scheduling planner on a day to day basis. With a mobile and web view, clients are able to book appointments directly with people selling a service. The app itself acts as a middleman and provides tools for creating custom business profiles with appointment openings to advertise to clients interested in their service. With personalization in mind, TrainE primarily caters towards clients looking for a more personalized plan. By providing customizable templates for tracking the progress prepared for each client as well as integrating tools within the communication channel between the client and the Trainer, it creates a more specialized experience for clients.

* **Skillshare** <https://www.skillshare.com/>
* **Duolingo**

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# **Delivery Timelines**

Part A of the project timeline is as follows:

| Initial Request for Proposal | 09/07/2022 |
| --- | --- |
| BRD, HL Design, Project Plan | 10/08/2022 |
| Network Diagram, LL Design, Registration, Logging | 11/12/2022 |
| Authentication, Authorization, Account Recovery, BoM | 12/17/2022 |

Part B of the project timeline will be provided upon TBD

# 

# **Vision**

Although geared towards small-business owners and individual users in its current iteration, we hope to eventually expand our target market both nationally and globally. In order to prepare our application for such an expansion, we believe an increase in both resources and features will be required. It is to that goal that we plan to implement the following improvements listed below once a stable version of our app has been delivered.

1. Upscaling:
   1. Adapt to more clients (Safari, Firefox)
   2. Adapt to mobile device platforms by upgrading UX/UI team/tools
   3. Scale our servers based on the growing audience
   4. Expand our market towards a larger international audience through adding different language support
   5. Provide a customer support page to provide answers to common questions and for company contact details
   6. Set up a (auto) moderation service with moderation tools
2. New features:
   1. Integrate other communication apps (ie. Zoom) to support virtual training, meetings right in the app
   2. Integrate a booking system where Patrons can schedule and connect with the instructors
   3. Payment system integration with PayPal/Amazon pay/Google pay
   4. Subscription tiers for Trainers with unique features and tools to better personalize their profiles and experiences with their clients
   5. Expand to having organization profiles where companies can use the app as a tool for their Trainers to manage their Patrons
   6. List view of calendar events
3. Revenue streams:
   1. Charge a service fee for each transaction in the app to strengthen booking confidence between users.
   2. Offer different paid-for packages to access more quality-of-life features in the app
   3. Offer ads-based priority search for Trainers

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# References

<https://acuityscheduling.com/> - temp

Darius Koroni

Project Proposal: development team makes this -> confirm with the client

* Cover page:
  + Name of doc
  + Team name, members
  + Date
  + Link to this document (github repo)
* Table of content
* Glossary
* Version history
* Introduction/Overview/Summary
* Headings
  + Target Audience
  + Value
  + Problem Scope
  + Competitors: why we're better?
  + Project Scope
  + Product Scope
  + Product Features and Scope (parameter)
  + Vision:
    - Upscale
    - Additional features (scope and benefits to the project's goal)
* References