AI Career Boost Capstone Project
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Introduction:
EssenceBlend is an AI-enhanced platform designed to simplify the process of creating personalized essential oil blends for aromatherapy. This document outlines the functional and non-functional requirements necessary to develop and launch EssenceBlend successfully.

Context & Rationale
Aromatherapy is a proven strategy for fostering well-being and improving mood. Knowing how to mix essential oils to create satisfying results is an artform in itself. Most individuals have very little knowledge of how to mix essential oils, resulting in wasted oils, undesirable scents, and reduced confidence in aromatherapy.

Functional Requirements:
1. **User Authentication and Profile Management:**
   - Users should be able to register and log in securely to access EssenceBlend's features.
   - The platform should allow users to create and manage their profiles, including personal preferences, saved blends, and purchase history.

2. **Recipe Generation:**
   - Users must be able to input their desired scent profiles and the essential oils they have on hand.
   - EssenceBlend should generate personalized essential oil blends based on user inputs, considering scent preferences, therapeutic benefits, and compatibility.
   - The platform should provide users with multiple blend options, allowing them to select their preferred recipe.

3. **AI Recommendation Engine:**
   - EssenceBlend should leverage machine learning algorithms to analyze user preferences and feedback.
   - The recommendation engine should continuously improve its accuracy and relevance over time, adapting to user behavior and trends in aromatherapy.

4. **Educational Resources:**
   - EssenceBlend should offer comprehensive information on essential oils, including their therapeutic properties, blending techniques, safety guidelines, and best practices.
   - Educational content should be accessible through articles, tutorials, videos, and FAQs to cater to diverse learning preferences.

5. **Shopping List Integration:**
   - The platform should generate shopping lists for additional essential oils required to create recommended blends.
   - Users should have the option to purchase essential oils directly through EssenceBlend or export the shopping list for offline procurement.

6. **Community Engagement:**
   - EssenceBlend should facilitate community interaction through forums, discussion boards, and user-generated content sharing.
   - Users should be able to share their experiences, exchange recipes, and provide feedback to enhance the platform's functionality.

7. **Multi-Platform Accessibility:**
   - EssenceBlend should be accessible through web and mobile platforms to accommodate users across various devices and operating systems.
   - The user experience should be consistent and optimized for seamless navigation and interaction on all supported platforms.

Non-Functional Requirements:
1. **Performance:**
   - EssenceBlend should deliver fast response times and smooth performance, even during peak usage periods.
   - The platform should be capable of handling concurrent user sessions and scalable to accommodate future growth.

2. **Security:**
   - EssenceBlend must adhere to industry-standard security protocols to protect user data and privacy.
   - Measures should be implemented to prevent unauthorized access, data breaches, and malicious activities.

3. **Reliability:**
   - The platform should maintain high availability and uptime to ensure uninterrupted access for users.
   - Backup and recovery mechanisms should be in place to mitigate the impact of system failures or data loss.

4. **Usability:**
   - EssenceBlend should offer a user-friendly interface with intuitive navigation and clear instructions.
   - Features should be logically organized, with prominent calls-to-action and helpful tooltips to assist users throughout their journey.

5. **Compatibility:**
   - EssenceBlend should be compatible with popular web browsers and mobile devices, including iOS and Android platforms.
   - Compatibility testing should be conducted to ensure consistent functionality across different devices and operating systems.

Conclusion:
EssenceBlend's success depends on fulfilling these product requirements to deliver a robust, user-centric platform that revolutionizes the aromatherapy experience for individuals, health providers, professionals, and companies worldwide. By prioritizing functionality, performance, security, and usability, EssenceBlend will set the standard for excellence in the aromatherapy industry.