ADVICE REPORT

Written by : Ibhaze Praise

Abstract

This report provides comprehensive advice for our interactive project: A personalized AI-generated nutrition plan developed for middle aged people through research surveys and user testing. The key advice focuses on enhancing the user experience and technological robustness. The expected outcomes include improved project quality, user engagement, and practical implementation of the recommendations.

Objectives

- Creating a personalised AI generated nutrition plan for middle aged people.
- To enhance the AI-generated nutrition plan project by refining user research, testing, and personalization features.
- To provide actionable recommendations that align with the educational goals and project requirements.

Methodology

- Stakeholder Interviews: We Engaged with classmates and teachers to gather feedback on project expectations and outcomes.
- Validation Methods: We Used user surveys and testing sessions to validate the functionality and effectiveness of the AI-generated nutrition plan.
- User Feedback Analysis: We Analysed feedback from peers and conducted user testing to identify strengths, weaknesses, opportunities, and threats in our nutrition plan.
- Lotus Framework: During the project we utilized the lotus framework to organize and know what features were needed in the nutrition plan’s functionality.

- Low-Fidelity Prototype: After the Primary research we conducted some ideas on how our website should look like and made Low-Fidelity Prototype on Paper.

- Mid-Fidelity Prototype: When Paper Prototype was done, we began to create Digital Prototype in Figma. We made a few versions and chose the one that we preferred the most.

- User Testing: When we had a properly designed and connected Prototype in Figma we made a few user testing's to see how the users will navigate and use the website and what would they like to change or add. When the testing's were done we implemented the changes into the Mid-Fidelity version.

- High-fidelity Prototype: After finalizing Mid-Fidelity Prototype we began with creating a website using HTML, CSS and Java Script tools.

Current Situation Analysis

Strengths

- Personalized user experiences based on survey data and user testing and the use of A to combine data.
- Functional and user friendly interface

Weaknesses

- Initial user interface complexity and limited dataset for AI predictions.
- Little to no client input during the creation of the product
- Lack of overall knowledge of expectations at the start of the project
- Time constraints

Opportunities

- Expand target audience for more diverse data collection and improved AI accuracy.
- Create a group with people who want to be more involved in the day-to-day proceedings .

Threats

- Competition from established health and nutrition apps.

Advice and Recommendations

Overview

The advice provided focuses on leveraging current strengths, addressing weaknesses, and capitalizing on opportunities while mitigating threats. This will help in achieving project objectives effectively.

Specific Recommendations

Technology Stack

- Implement machine learning frameworks such as TensorFlow or PyTorch for improved AI functionality.

Security

- Ensure secure data handling practices, especially for user data in the AI nutrition plan, by implementing encryption and secure authentication mechanisms.

Performance

- Optimize loading times and responsiveness by using efficient coding practices and performance testing tools.

User Experience

- Simplify the user interface and provide clear instructions and feedback during the user interaction process.

Development Practices

- Adopt agile development methodologies for iterative improvements.
- Utilize version control systems like Git for tracking changes and collaborative development.

Team and Resources

- Clearly define roles and responsibilities within the project teams to ensure efficient workflow and resource allocation.
- Seek external expertise if needed, particularly in AI and web development areas.

Budget and Financing

- Prepare a detailed budget that includes costs for software tools, development resources, and potential external services.

Implementation Plan

Phase 1: Planning

- Define project scope and objectives.
- Assign roles and responsibilities.

Phase 2: Development

- Develop and test project components.
- Gather and incorporate user feedback.

Phase 3: Refinement

- Optimize performance and user experience through feedback.
- Implement security measures.

Phase 4: Deployment

- Finalize and deploy the projects.
- Monitor and maintain post-deployment.

Risks and Mitigation Strategies

RISK	MITIGATION
Technological changes impacting project compatibility.	Stay updated with technology trends and plan for regular updates.
Data security breaches.	Implement robust security protocols and regular audits.

Conclusion

The provided recommendations aim to enhance the quality, usability, and security of the AI generated nutrition plan project. Following the advice will help achieve project objectives, improve user satisfaction, and ensure sustainable development practices.