Deliverable 2 (Approach + Requirement List +

Scope Statement + WBS Tasks + Gantt Chart +

Project SetUp)

For

NutriScope (Health Metrics Project)

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26th March, 2024

1. **Approach for Collecting Requirements**

The process of gathering requirements for the NutriScope Health Tracker project will involve a comprehensive approach that leverages multiple sources and techniques. The primary goal is to capture a comprehensive set of requirements that accurately reflect the needs and expectations of the target users and the stakeholder's objectives. The following steps outline the proposed approach:

* 1. User Research and Interviews
     1. Conduct surveys and interviews with a diverse group of potential users from the target demographic to understand their pain points, preferences, and expectations from a health-tracking application.
     2. Interview medical professionals, nutritionists, and fitness experts to gain insights into the critical features and functionalities necessary for effective health monitoring and goal achievement.
  2. Competitive Analysis
     1. Perform a thorough analysis of existing health-tracking applications in the market to identify strengths, weaknesses, and gaps that can be addressed by the NutriScope Health Tracker.
     2. Study user reviews and feedback on competing products to understand common user complaints, missing features, and areas for improvement.
  3. Stakeholder Workshops
     1. Organize workshops with key stakeholders, including project sponsors, product managers, and developers, to gather their perspectives, priorities, and expectations for the project.
     2. Facilitate collaborative sessions to discuss and prioritize requirements, ensuring alignment with organizational goals and strategies.
  4. Prototyping and User Testing
     1. Develop low-fidelity prototypes of the application's user interface and core features to gather early feedback from potential users.
     2. Conduct usability testing sessions to identify areas for improvement, validate assumptions, and refine requirements based on user interactions with the prototypes.
  5. Documentation and Traceability
     1. Maintain a comprehensive requirements traceability matrix (RTM) to document and manage all identified requirements, their sources, priorities, and dependencies.
     2. Ensure traceability between requirements, design elements, test cases, and implementation tasks for effective project planning and quality assurance.
  6. Iterative Refinement
     1. Adopt an iterative approach to requirements gathering, allowing for continuous refinement and validation of requirements throughout the project lifecycle.
     2. Regularly review and update the requirements based on feedback from stakeholders, user testing sessions, and emerging trends or technological advancements.

1. **Requirements Traceability Matrix (RTM)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Requirement No. | Name | Category | Source | Status |
| REQ-001 | User Profile Creation | Functional | User Interviews | Approved |
| REQ-002 | Manual Health Tracking | Functional | Competitive Analysis | Approved |
| REQ-003 | Wearable Integration | Functional | Stakeholder Workshop | Approved |
| REQ-004 | Personalized Recommendations | Functional | User Interviews | Approved |
| REQ-005 | Meal Photo Calorie Estimation | Functional | Stakeholder Workshop | Approved |
| REQ-006 | Health Trends Visualization | Functional | User Interviews | Approved |
| REQ-007 | Goal Setting and Tracking | Functional | Competitive Analysis | Approved |
| REQ-008 | Reminders and Notifications | Functional | User Interviews | Approved |
| REQ-009 | Data Privacy and Security | Non-Functional | Stakeholder Workshop | Approved |
| REQ-010 | Platform Compatibility for Android and iOS both | Constraint | Stakeholder Workshop | Approved |