Proposal for Developing an e-Commerce Website for

TechStack IT Services

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E-Commerce Proposal for TechStack IT Service

1. Executive Summary

Brief Overview of the Project: TechStack IT Service aims to develop an advanced e-commerce platform designed to streamline and enhance the online shopping experience for users. This platform will serve as a comprehensive solution for managing online retail operations, including product listings, order management, customer service, and analytics.

The Problem Statement: The current e-commerce platforms used by TechStack IT Service's clients are outdated, lack modern features, and suffer from poor scalability and security vulnerabilities. This hampers their ability to effectively compete in the fast-paced online retail market.

The Proposed Solution: TechStack IT Service proposes the development of a robust, secure, and scalable e-commerce platform tailored to meet the specific needs of its clients. The platform will incorporate state-of-the-art features such as secure payment gateways, and seamless integration with third-party services.

Key Benefits and Outcomes:

- > Enhanced User Experience: Improved interface and navigation for better customer engagement and satisfaction.
- > **Increased Sales:** Advanced analytics and personalized recommendations to boost sales.
- > Scalability: A platform that grows with the business, accommodating increased traffic and transactions.
- > Security: Cutting-edge security measures to protect customer data and transactions.

2. Project Objectives

Specific, Measurable Goals:

- > Develop a fully functional e-commerce platform within six months.
- Achieve a user satisfaction rating of 90% within the first three months of deployment.
- ➤ Increase client sales by 25% within the first year of platform launch.

- Ensure 99.9% uptime and minimal latency for all e-commerce operations.
- > Facilitate secure online transactions
- > Enable purchase to view available products
- > Enhance user experience with responsive design

Alignment with Organizational Goals:

- > Strengthening TechStack IT Service's position as a leading provider of e-commerce solutions.
- Expanding the client base by offering a superior, modern e-commerce platform.
- > Enhancing profitability through increased client satisfaction and retention.

3. Scope of Work

Detailed Description of the Project:

- > Platform Development: Build a web-based e-commerce platform with responsive design.
- > Feature Implementation: Include product management, shopping cart, payment integration, user accounts, and order tracking.
- > Third-party Integrations: Integrate with popular payment gateways and shipping services.
- > Security Features: Implement SSL, data encryption, and multi-factor authentication.

In-Scope Activities and Tasks:

- > Requirement analysis and specifications.
- > Design and development of the e-commerce platform.
- > Integration with existing client systems and third-party services.
- > User training and documentation.

Out-of-Scope Items:

- Ongoing marketing and SEO services.
- > Management of physical inventory and logistics.

4. Deliverables

List of Deliverables:

- Requirement Specification Document: Detailed description of client needs and project requirements.
- **Design Mockups:** Visual representation of the platform's user interface.
- **Development Codebase:** Source code of the developed platform.
- ➤ **Integration Modules:** Custom plugins and APIs for third-party services.
- ➤ **User Manual:** Comprehensive guide for end-users to navigate the platform.

Delivery Format and Criteria for Acceptance:

- > Deliverables will be provided in digital format (PDF, code repositories).
- > Acceptance criteria include successful completion of functional testing, user acceptance testing, and client approval.

5. Project Timeline

Phases of the Project:

- > Planning (4 Days): Requirement gathering, project planning.
- > **Design (20 Days):** Requirement gathering, project planning.
- **Development (114 Days):** Coding and feature implementation.
- **Testing (15 Days):** Unit testing, integration testing, UAT.
- **Deployment (15 Days):** Production deployment and go-live.
- **Post-Deployment (15 Days):** Support and maintenance.

Milestones and Key Dates:

> Full launch: January 16, 2025

6. Project Plan

Methodology:

> **Agile:** Iterative development with frequent client feedback to ensure alignment with client needs.

Task Breakdown and Work Packages:

- **Requirement Analysis:** Define project requirements, user stories.
- > **Design:** Create wireframes, UI/UX design.
- **Development:** Backend and frontend development.
- **Testing:** Perform unit, integration, and acceptance testing.
- **Deployment:** Prepare and deploy to live environment.

Resource Allocation:

- > Project Manager: 1 FTE (Full Time Engineer)
- ➤ UI/UX Designer: 1 FTE (Full Time Engineer)
- > Frontend Developers: 2 FTEs (Full Time Engineer)
- ➤ Backend Developers: 2 FTEs (Full Time Engineer)
- > QA Engineers: 2 FTEs (Full Time Engineer)
- > DevOps Engineer: 1 FTE (Full Time Engineer)

7. Budget and Cost Estimates

Detailed Cost Breakdown:

- > Labor Costs:
 - ✓ Project Management: 10,800.00 Birr
 - ✓ Development: 162,000.00 Birr
 - ✓ Testing and QA: 72,000.00 Birr
 - ✓ Design: 72,000.00 Birr
 - ✓ Web Hosting(Six month): 150,000.00 Birr
- > Materials and Tools: 280,000.00 Birr
- > **Software Licenses:** 10,000.000 Birr
- ➤ Miscellaneous Costs: 50,000.00 Birr

Total Project Cost:

> **Total:** 832,000.00 Birr

Payment Schedule:

- > 20% upfront upon signing contract.
- > 30% upon completion of the prototype.
- > 30% upon beta testing completion.
- > 20% upon final delivery and acceptance.

8. Risk Management

Potential Risks and Their Impact:

- > Scope Creep: Could delay the project and increase costs.
- **Technical Challenges:** May affect the quality and delivery of the platform.
- > Security Breaches: Could lead to data loss and reputational damage.

Mitigation Strategies:

- > Regularly review project scope and adjust timelines as needed.
- > Conduct thorough technical evaluations and testing.
- > Implement robust security protocols and regular security audits.

Risk Management Plan:

- Conduct bi-weekly risk assessment meetings.
- Maintain a risk register to track and mitigate risks.

9. Team Structure

Project Team Roles and Responsibilities:

- > **Project Manager:** Oversee project execution, manage resources.
- > **UI/UX Designer:** Design user interface and experience.

- **Frontend Developers:** Develop client-side applications.
- **Backend Developers:** Develop server-side applications and database management.
- > QA Engineers: Test software for bugs and issues.
- **DevOps Engineer:** Manage deployment and infrastructure.

Organizational Chart:

- Project Manager
 - ✓ UI/UX Designer
 - ✓ Frontend Team
 - ✓ Backend Team
 - ✓ QA Team
 - ✓ DevOps Engineer

Key Personnel and Their Qualifications:

- ➤ Project Manager: 3+ years in IT project management.
- ➤ Lead Developer: 2+ years in e-commerce platform development.
- ➤ QA Lead: 1+ years in software testing and quality assurance.

10. Technical Requirements

Software and Hardware Requirements:

- > Server Requirements: AWS or equivalent cloud service.
- > Software Stack:
 - ✓ Backend: Node.js, Express.js, MongoDB
 - ✓ Frontend: React.js
 - ✓ Payment Integration: Tele Birr or one of local payment method
- ➤ **Development Tools:** GitHub(Version Control), Visual Studio (IDE), Postman (Backend Test) and MongoDb(Database).

Integration Points with Existing Systems:

- ➤ Integration with existing CRM systems for customer management.
- APIs for connecting with third-party shipping and payment services.

11. Quality Assurance

Testing Strategy and Phases:

- ➤ Unit Testing: Test individual components for functionality.
- ➤ **Integration Testing:** Ensure components work together seamlessly.
- ➤ User Acceptance Testing (UAT): Validate that the platform meets user requirements.

Quality Metrics and Standards:

➤ Defect density should be less than 1 per 1,000 lines of code.

I.e. **Defect Density** = Number of Defects / (Total Lines of Code / 1,000)

This formula calculates the average number of defects per thousand lines of code (KLOC).

> Test coverage should be at least 90%.

Review and Approval Process:

- > Code reviews by senior developers.
- > User feedback sessions post-UAT.
- > Final approval by the client after addressing all issues.

12. Communication Plan

Stakeholder Communication Strategy:

Monthly meetings with the client to review progress and update status.

Meeting Schedules:

- > Weekly team meetings for progress check-ins.
- ➤ Bi-weekly risk assessment meetings and team meeting for progress check-ins.

Reporting and Documentation Protocols:

- > Bi-weekly progress reports and sprint summaries.
- Documentation of all project phases and decisions.

13. Maintenance and Support

Post-Deployment Support Plan:

- > 24/7 technical support for the first three months.
- > Regular system updates and patches.

Maintenance Schedule:

- > Monthly maintenance for updates and bug fixes.
- > Quarterly performance reviews and system audits.

Issue Resolution Process:

- > Issues logged in a ticketing system.
- Resolution within 24 hours for critical issues and 72 hours for non-critical issues.

14. Conclusion

Summary of the Proposal: This proposal outlines the development of a cutting-edge e-commerce platform for TechStack IT Service. It covers all aspects from planning to post-deployment, ensuring a comprehensive solution that meets client needs and enhances their competitive edge in the market.

Call to Action or Next Steps: We invite you to review this proposal in detail and provide feedback or approval so we can commence the project as per the outlined schedule.

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