**Project Documentation and Plan for PRIME TECH DESIGNS LTD Portfolio Website**

**1. Project Overview**

**Project Name:** PRIME TECH DESIGNS LTD Portfolio Website  
**Developers:** Godfrey Bwalya & Blessings  
**Company Name:** PRIME TECH DESIGNS LTD  
**Tagline/Motto:** *"Innovating Tomorrow’s Technology Today"*  
**Target Audience:** Clients, potential employers, and tech enthusiasts.  
**Purpose:** To showcase the skills, services, and products offered by PRIME TECH DESIGNS LTD, including software development, tech gadget sales, and IT services.

**2. Technologies and Tools**

**Frontend:**

* HTML5, CSS3, JavaScript (for responsiveness and interactivity)
* Bootstrap (for responsive design)
* React.js or Angular (optional for dynamic content)

**Backend:**

* Java (Spring Boot framework for backend logic)
* MySQL (for database management)

**Other Tools:**

* Git/GitHub (version control)
* Figma/Adobe XD (for UI/UX design)
* VS Code/IntelliJ IDEA (development environment)
* Apache Tomcat (for deployment)

**3. Project Phases (IT Project Management)**

**Phase 1: Project Initiation**

**Objective:** Define the project scope, goals, and deliverables.  
**Deliverables:**

* Project charter
* Stakeholder identification (Godfrey, Blessings, and potential clients)
* Initial requirements gathering

**Milestones:**

* Approval of project charter
* Identification of key features

**Phase 2: Planning**

**Objective:** Create a detailed project plan, including timelines, resources, and risk management.  
**Deliverables:**

* Project plan document
* Work Breakdown Structure (WBS)
* Risk management plan

**Milestones:**

* Completion of project plan
* Approval of WBS

**Phase 3: Requirements Analysis**

**Objective:** Gather and document detailed requirements for the portfolio website.  
**Deliverables:**

* Functional and non-functional requirements document
* Use case diagrams

**Key Features:**

1. **Home Page:**
   * Company motto, brief introduction, and services overview.
2. **About Us:**
   * Profiles of Godfrey and Blessings, including qualifications and skills.
3. **Services:**
   * Software development, IT services, and tech gadget sales.
4. **Portfolio:**
   * Showcase past projects (e.g., software development, installations, repairs).
5. **Contact Us:**
   * Contact form, email, phone number, and social media links.
6. **Blog/News Section (Optional):**
   * Updates on tech trends, company news, and tips.

**Milestones:**

* Finalized requirements document
* Approval of use case diagrams

**Phase 4: Design**

**Objective:** Design the website’s architecture, user interface, and database schema.  
**Deliverables:**

* Wireframes and mockups (using Figma/Adobe XD)
* Database schema (ER diagrams)
* UI/UX design

**Milestones:**

* Approval of wireframes and mockups
* Finalized database schema

**Phase 5: Development**

**Objective:** Build the website using the chosen technologies.  
**Deliverables:**

* Frontend development (HTML, CSS, JavaScript, Bootstrap)
* Backend development (Java Spring Boot, MySQL)
* Integration of frontend and backend

**Milestones:**

* Completion of frontend development
* Completion of backend development
* Successful integration

**Phase 6: Testing**

**Objective:** Test the website for functionality, responsiveness, and performance.  
**Deliverables:**

* Test cases and test reports
* Bug fixes

**Testing Types:**

* Unit testing
* Integration testing
* User acceptance testing (UAT)

**Milestones:**

* Successful completion of testing
* Approval from stakeholders

**Phase 7: Deployment**

**Objective:** Deploy the website to a live server.  
**Deliverables:**

* Deployed website
* User documentation

**Milestones:**

* Website goes live
* Client approval

**Phase 8: Maintenance**

**Objective:** Provide ongoing support and updates.  
**Deliverables:**

* Regular updates and bug fixes
* New feature additions

**Milestones:**

* Monthly maintenance checks
* Quarterly updates

**4. Deliverables and Milestones Summary**

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| | **Phase** | **Deliverables** | **Milestones** | | --- | --- | --- | | Project Initiation | Project charter, stakeholder list | Approval of project charter | | Planning | Project plan, WBS, risk management plan | Completion of project plan | | Requirements Analysis | Requirements document, use case diagrams | Finalized requirements document | | Design | Wireframes, mockups, database schema | Approval of wireframes and mockups | | Development | Frontend, backend, integrated website | Completion of frontend and backend | | Testing | Test cases, test reports, bug fixes | Successful testing | | Deployment | Deployed website, user documentation | Website goes live | | Maintenance | Updates, bug fixes, new features | Monthly/quarterly maintenance | |

**5. Timeline (Estimated)**

| **Phase** | **Duration** |
| --- | --- |
| Project Initiation | 1 week |
| Planning | 2 weeks |
| Requirements Analysis | 2 weeks |
| Design | 3 weeks |
| Development | 6 weeks |
| Testing | 2 weeks |
| Deployment | 1 week |
| Maintenance | Ongoing |

**6. Budget (Optional)**

* Domain Name: $10/year
* Hosting: $50/year
* Design Tools: Free (Figma)
* Development Tools: Free (VS Code, IntelliJ IDEA Community)
* Total Estimated Cost: $60/year

**7. Team Roles**

* **Godfrey Bwalya:** Backend development, database management, and project management.
* **Blessings:** Frontend development, UI/UX design, and content creation.

**8. Risk Management**

| **Risk** | **Mitigation Strategy** |
| --- | --- |
| Delays in development | Set realistic deadlines and monitor progress. |
| Technical issues | Regular code reviews and testing. |
| Budget overruns | Use free tools and resources where possible. |
| Scope creep | Stick to the approved requirements document. |

**9. Conclusion**

This project plan outlines the steps required to build a responsive and visually appealing portfolio website for PRIME TECH DESIGNS LTD. By following the phases of IT project management, the team can ensure timely delivery and high-quality results. The website will serve as a platform to showcase the company’s expertise, services, and products, helping to attract clients and grow the business.