Software Project Proposal: Park Management System

# 1. Project Title

Park Management System (PMS)

# 2. Executive Summary

This proposal outlines the design and development of a Park Management System aimed at streamlining the administration of public or private parks. The system will offer modules for managing park facilities, bookings, staff, events, maintenance, and user feedback. The goal is to digitize manual processes, improve operational efficiency, and enhance visitor experiences.

# 3. Project Objectives

- Digitally manage park facilities, resources, and user data.  
- Allow online bookings for amenities (e.g., picnic areas, courts, tours).  
- Manage park staff schedules and maintenance records.  
- Provide real-time announcements and event management.  
- Collect visitor feedback and complaints for service improvements.  
- Ensure secure login and access control for users and admins.

# 4. Scope of Work

Functional Modules:

1. User Management  
- Visitor registration and login  
- Admin/staff login  
- Role-based access control  
  
2. Facility Booking  
- View available facilities  
- Book or reserve areas  
- Manage payment or free permits  
  
3. Event Management  
- List upcoming events  
- Admin can create/update/delete events  
- Users can register to attend  
  
4. Maintenance Tracking  
- Report maintenance issues  
- Assign tasks to staff  
- Status updates (Pending/In Progress/Resolved)  
  
5. Feedback System  
- Submit reviews and complaints  
- Admin response system  
  
6. Dashboard  
- Overview for admins: usage stats, bookings, issues  
- Personalized view for each user

# 5. Technology Stack

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| --- | --- |
| Layer | Tools/Technologies |
| Frontend | HTML, CSS, JavaScript |
| Backend | PHP |
| Database | MySQL |
| Other Tools | Gi Figma (UI design), etc. |

# 6. Target Users

- Park Visitors  
- Park Administrators  
- Park Staff (e.g., maintenance, security)  
- Event Coordinators

# 7. Project Timeline

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| --- | --- |
| Phase | Duration |
| Requirements Gathering | Days 1-2 |
| UI/UX Design | Days 2-4 |
| Backend & Database Setup | Days 3-6 |
| Frontend Development | Days 5-10 |
| Integration & Testing | Days 11-12 |
| Feedback & Revisions | Day 13 |
| Deployment | Day 14 |

# 8. Budget Estimate

- Hosting & Domain: $50/year  
- Developer Time (optional): $1000–$3000 depending on scope  
- Miscellaneous: $100 (testing, contingency)

# 9. Risks & Mitigation

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| --- | --- |
| Risk | Mitigation Strategy |
| Delay in development | Set milestones and weekly reviews |
| Data breach | Implement authentication & data encryption |
| Low user adoption | Provide onboarding and intuitive UI/UX |
| Server downtime | Use reliable hosting & backups |

# 10. Conclusion

The Park Management System will simplify administrative tasks, improve public engagement, and promote better use of park facilities. With the integration of modern web technologies, the system will be scalable, secure, and user-friendly, tailored for real-world park operations..

# 11. Team Members & Roles

|  |  |
| --- | --- |
| **Name/Matric no of Group members** | **Roles/ Tasks of group members** |
| **Mobolaji Oluwadamilare Daniel./ 23/0289** | **Project Manager/ Backend Development** |
| **­­­­Komolafe Praise Oluwasijibomi 21/2421** | **Secretary/ Functional and non functional requirements**  **And risk analysis** |
| **Ndubuizu Somtochukwu Emmanuel**  **23/0222** | **Consultant/ Selection of Process Model.** |
| **John Ayodeji Oloruntodasimi 23/0010** | **HTML development** |
| **Nnata gospel ozioma 23/0189** | **Styling of the website** |
| **Ewarami Raphael Oreoluwa** | **Software prototyping** |

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