

# **Kilifi Primary School Management System**

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### **## Introduction**

**Kilifi Primary School Management System is a web-based application designed to streamline the administrative processes of a primary school.**

**The system provides functionalities for managing student records, teacher details, and other essential school-related data. It aims to improve**

**efficiency, reduce paperwork, and provide an intuitive interface for school staff.**

### **## Objectives**

- Simplify the management of student and teacher information.**
- Provide a centralized platform for storing school data.**
- Enhance communication between school administrators and staff.**
- Reduce manual errors in administrative tasks.**

### **## Features**

#### **### Student Management**

- Add, edit, and delete student records.**

- View details of enrolled students, including age, class, and contact information.

### **### Teacher Management**

- Maintain a database of teacher information, including subjects taught and contact details.
- Assign teachers to specific classes.

### **### Class Management**

- Organize students into classes.
- Allocate teachers to manage specific classes.

### **### Dashboard**

- A user-friendly dashboard summarizing key school data, including the total number of students, teachers, and classes.
- Quick access to essential features such as adding new records or viewing reports.

### **### Authentication**

- Secure login for administrators and staff to ensure data confidentiality.

### **### Reports**

- Generate reports on student and teacher statistics.
- Export data for external use in formats such as PDF or Excel.

## **## Technologies Used**

- **\*\*Backend:\*\* Python (Django Framework)**
- **\*\*Frontend:\*\* HTML, CSS, JavaScript**
- **\*\*Database:\*\* SQLite (with potential to upgrade to PostgreSQL or MySQL)**
- **\*\*Environment:\*\* Virtual Environment for dependency management**

## **## Project Structure**

### **### Directories**

- **\*\*`kilifi\_primary\_school\_management\_system/`\*\*:** Main project directory
- **\*\*`kilifi\_school/`\*\*:** Django app handling core functionalities
- **\*\*`templates/`\*\*:** HTML templates for rendering views
- **\*\*`static/`\*\*:** Static files (CSS, JavaScript, images)

### **### Files**

- **`models.py`:** Defines the database models for students and teachers.
- **`views.py`:** Handles the logic for rendering pages and processing data.
- **`urls.py`:** Routes URLs to the appropriate views.
- **`settings.py`:** Contains project configurations.

## **## Setup and Installation**

### **### Prerequisites**

- Python 3.10+
- Django 4.2+
- Virtual Environment

### ### Steps

#### 1. Clone the repository:

```
``bash
git clone <repository_url>
``
```

#### 2. Navigate to the project directory:

```
``bash
cd kilifi_primary_school_management_system
``
```

#### 3. Create and activate a virtual environment:

```
``bash
python -m venv kilifi_venv
kilifi_venv\Scripts\activate # On Windows
source kilifi_venv/bin/activate # On macOS/Linux
``
```

#### 4. Install dependencies:

```
``bash
pip install -r requirements.txt
``
```

5. Run migrations:

```
```bash
python manage.py makemigrations
python manage.py migrate
```
```

6. Start the development server:

```
```bash
python manage.py runserver
```
```

7. Access the system at:

```
- `http://127.0.0.1:8000/`
```

## Budget Quotation Plan

| <b>**Item**</b>              | <b>**Description**</b>                        | <b>**Estimated</b> |
|------------------------------|---|--------------------|
| <b>Cost (USD)**</b>          |   |                    |
| -----                        | -----   | -----              |
| -                            |   |                    |
| <b>**Domain Name**</b>       | <b>Registration of a custom domain</b>        |                    |
| \$15/year                    |   |                    |
| <b>**Hosting**</b>           | <b>Cloud-based hosting services</b>           |                    |
| \$100/year                   |   |                    |
| <b>**Development Tools**</b> | <b>Software and utilities for development</b> |                    |
| \$50 (one-time)              |   |                    |

|                                 |                                   |                   |
|---------------------------------|-----------------------------------|-------------------|
| <b>**Developer Fees**</b>       | Payment for development and setup |                   |
| \$1000 (one-time)               |                                   |                   |
| <b>**Maintenance**</b>          | Updates, bug fixes, and support   |                   |
| \$200/year                      |                                   |                   |
| <b>**Miscellaneous**</b>        | Unforeseen expenses               | \$50              |
|                                 |                                   |                   |
| <b>**Total Estimated Cost**</b> |                                   | <b>**\$1415**</b> |
|                                 |                                   |                   |

## **## Conclusion**

The Kilifi Primary School Management System is a comprehensive solution tailored to meet the unique administrative needs of primary schools. By implementing this system, the school can achieve better efficiency, accuracy, and communication. With a moderate budget, the system ensures cost-effectiveness while delivering robust functionalities.