BIGEZO

V1

A POWERFUL ONLINE MARKS-DATABASE ENGINE

FOR PRIMARY SCHOOLS

Compatible with MS Excel Version 2007 and later (Files ending with .xlsx)

Google   www.bigezo.com

21st Century Technology

PRODUCT OF AYSH INVENTIONS LIMITED

ayshinventions@gmail.com | +256 773 913902 | +256 704 678948

AYSH

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SYSTEM FUNCTIONS

BiGEZO

Marks Database

Robust & Secure
School Marks Database

Marks Viewer

90%

- Parent can view Student's Marks Online.
- Parent can report missing marks or wrong marks online.
- Admin can view and respond to parents' queries regarding their child's marks.

PDF Generator

Parents can download and share or print their Child's Marks in Pdf format from the online platform.

Bulk Reports Generator

The school administration can bulk generate fully designed and customized reports for the entire class in PDF format from the marks database for printing.
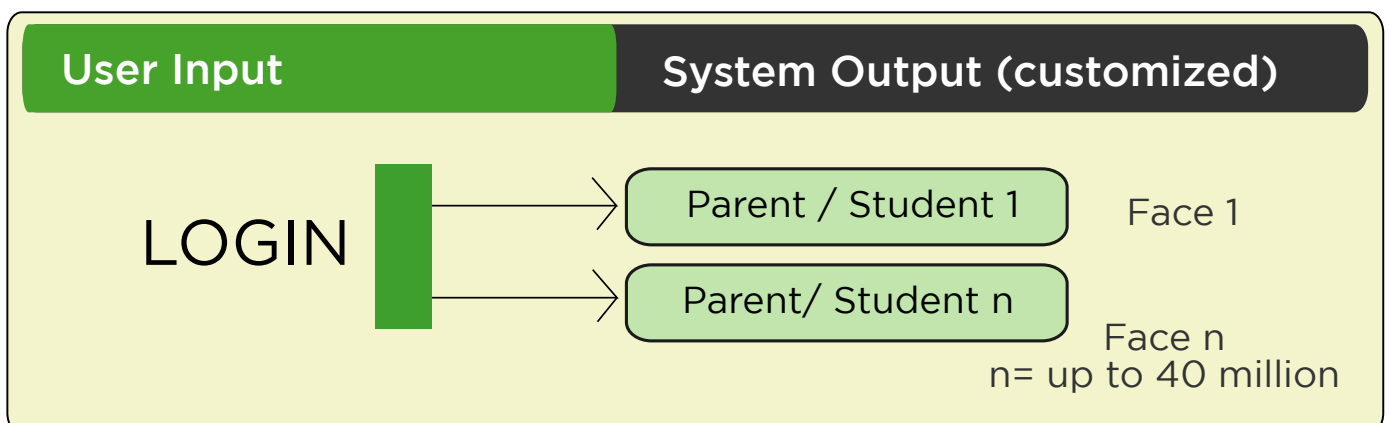The bigezo reports generator is as fast as **20 REPORTS PER SECOND.**
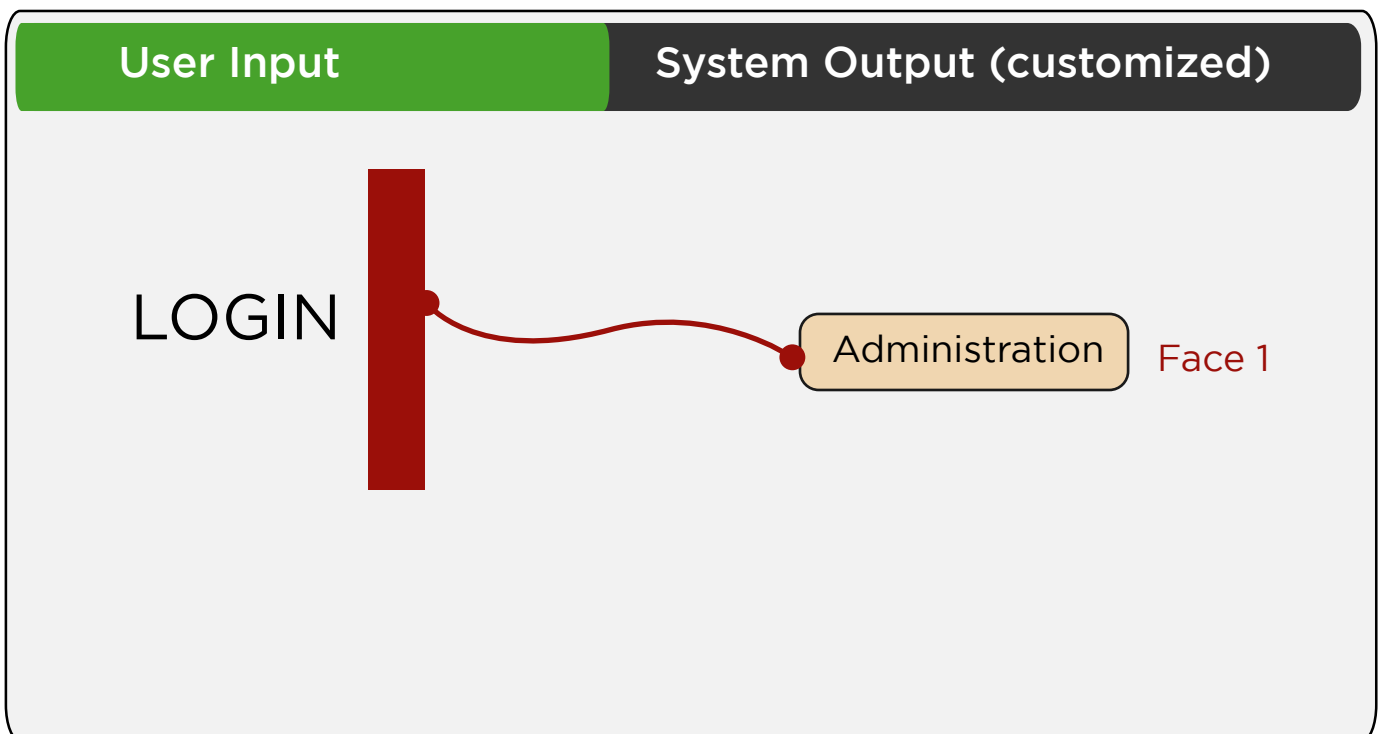
Marks Uploader

School Admin can upload all their students' marks in one Excel Sheet at once. The marks engine then automatically processes the data to assign grades, averages, and comments.
After that, the engine distributes the marks to each individual student's account.

1

One system, many faces.

The system produces different outputs depending on who is using it. This means that the right people get access to the right information.

User Input	System Output (customized)
LOGIN	Administration — Face 1

User Input	System Output (customized)
LOGIN	Parent / Student 1 — Face 1
	Parent/ Student n — Face n

n= up to 40 million

2

SYSTEM STRENGTHS

& KEY FEATURES

1 STRONG ARCHITECTURE

The system is built using the most robust and reliable technologies, proven over decades for their outstanding performance in Speed, Security, & Stability.

Database	PostgreSQL : since 1987
Server programming	Java : since 1995
Client-side programming	Javascript : since 1995
Responsive User Interface	W3CSS

2 USER FRIENDLY

Our technology is compartible with the famous Microsoft excel versions from Excel 2007. The Admin can upload an excel file of marks for the entire class, then the Bigezo Engine does the rest.

The engine generates individual marks, gradings, position and averages for each student independently so that each parent is able to only access their own child's marks and not other students'.

SYSTEM
SECURITY

SYSTEM SECURITY

The System has 3 Layers of protection, each layer using unique security technologies.

1. Database Security
2. Server-Side Security
3. Client-Side Security

Layer 1	DATABASE SECURITY

User authentication levels.

The database has been portioned into several database layers each having different access levels. Because of this, unauthorized personnel have no access to the system data, students & parents only have access to view their respective data from the database but have no access to edit any bit of it.
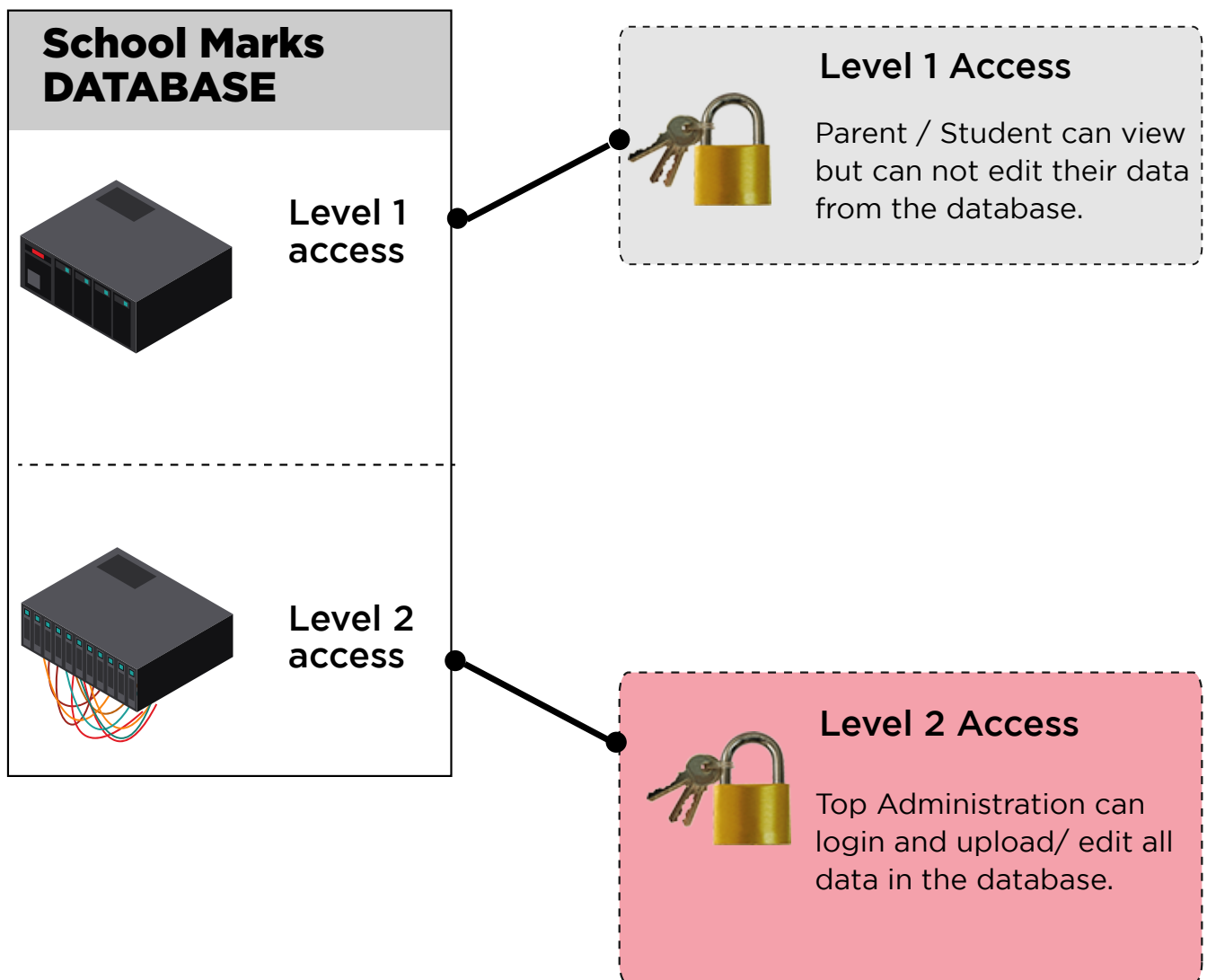
The top administration has access and permission to update all the data in the database.

SYSTEM SECURITY

Layer 1 | DATABASE SECURITY

USER AUTHENTICATION

School Marks DATABASE

Level 1 access

Level 1 Access

Parent / Student can view but can not edit their data from the database.

Level 2 access

Level 2 Access

Top Administration can login and upload/ edit all data in the database.

SYSTEM SECURITY

Layer 2   SERVER SECURITY

- The web application shall be hosted on a UK server that is proven and tested over time for its uptime and high speed performance.

- Also, the web application shall be hosted on the latest version of the Apache Tomcat server & shall use Secure Socket Layer (SSL) protection

- The System server is programmed using Java, the proven most secure and stable server language since 1995, used by Oracle, Google & NASA.

Layer 3   CLIENT-SIDE SECURITY

User authentication.

- Data shall only be accessed by authorized personel after they have logged in with their authorized credentials.

Cross-site request forgery (CSRF) protection

- Login details shall expire in a given short time (about 30mins). After the chosen period the system shall automatically log itself out and require a fresh login. This way accounts shall not be hacked due to redundance or forgeting to logout.

4   HIGH SPEED

Using JQuery asynchronous technology, the system engine has been built to have super fast page navigation speeds. This favors system usage despite slow internet.

The system database also has a relational data structure that quickens fetching of data.

5   OTHER STRENGTHS

SYSTEM STABILITY

The system remains stable & does not crash even when the Web Application is accessed by thousands of users at the same time. This is due to the Java multi-threading technology.

RESPONSIVE DESIGN

The system is accessible and looks nice across diverse electronic devices: Laptops, Smart phones of all sizes & types, Tabs, and Desktops.

COST / REMUNERATION

The cost and services involved are indicated on the website on the welcome page   www.bigezo.com/welcome.jsp

| Google | www.bigezo.com/welcome.jsp | 🔍 |

Our rates are the cheapest , yet with excellent services.

The standard account costs

only   **UGX 5,000**   per student account per term.

Please visit the website above to see more details.

PARTNER TECHNOLOGIES

ORACLE INC.   JVMHOST

ADOBE INC.   POSTGRESQL

MICROSOFT

SCHOOL MARKS ENGINE V1

FOR A LIVE DEMO

CONTACT US

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