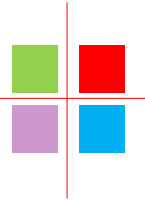




**Destinysoft**  
**Microsystems**

## App Development Portfolio



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*Bringing Advancement To Society Through Innovation In Software Technology*

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# Destinysoft Microsystems

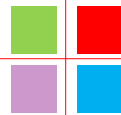
P.O Box 30, Diwai Post Office, Madang 511, Papua New Guinea

Email: [macclaykal@gmail.com](mailto:macclaykal@gmail.com) / [destinysoft.microsystems@gmail.com](mailto:destinysoft.microsystems@gmail.com)

Phone: 71214977/73102369/75978756

Facebook pages: [Destinysoft Microsystems](#) | [Assessment Wizard](#)

## App Development Portfolio



With over 12 years of Software Development, we are living our vision at  
"Bringing Advancement To Society Through Innovation In Software Technology."

We build applications using the .NET Framework Software Development Technology for both Desktop & Web Applications with Microsoft SQL Server as our main Database Management System For Client-Server Applications Development. Our Deployment platform: Amazon Web Services.

Below are some of the software applications that we developed.

### 1. **Assessment Wizard – Assessment Wizard**

Drop box link: <https://www.dropbox.com/s/cc29x9jtt09jmmmp/assessmentwizardprofile.pdf?dl=0> (full document link)

School Assessment Software, runs up to 10,000 data within a few seconds. Analyze all students data, process and generate automatic school assessment reports.



Authorities Presented To:

**NATIONAL LEVEL-**

Secretary For Education –Dr.Uke Kombra -Year 2018

Location: ICT Apec Summit @International Convention Centre

Comment: "I have sent it to Mr. Arrulappan to review it. You can contact him directly."

Contact: [secretary@education.gov.pg](mailto:secretary@education.gov.pg) +675 3013339

## Authorities Presented To:

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### NATIONAL LEVEL

Assistant Secretary For Education ICT -Mr. Thomas Podarua -Year 2017

Location: 5th Floor Fincorp Haus

Comment: **"Introduce to schools for a possible implementation."**

Contact: Thomas\_Podarua@education.gov.pg +675 3288800 ext:551

ICT Advisor-Dpt. Education -Mr. Kam Khademazad -Year 2017

Location: 5th Floor Fincorp Haus

Comment: **"Introduce to schools for a possible implementation"**

Contact: Kam@education.gov.pg +675 3013390

Senior Standards Officer -Mr. Lawrence Abady-2018

Location: Measurement Standard Unit

Comment: **"The fastest processing assessment system so far. Very user-friendly"**

Contact:(—)

Senior Curriculum &

Assessment Co-coordinator -Mr. Melchior Wohi -Year 2018

Location: 5th Floor Fincorp Haus

Comment: **"Introduce to schools for a possible implementation"**

Contact: Melchior\_Wohi@education.gov.pg

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### PROVINCIAL LEVEL

Provincial Planner -Mr. Simon Simoi -Year 2014

Location: Madang Provincial Planning Office

Comment: **"Because of its capabilities and usefulness, I would like to have the program introduced to our schools in the province."**

Contact: madplanning@datec.net.pg +6754221372

Director Education -Mr. Moses Sariki -Year 2015

Location: Madang Provincial Education Office

Comment: **"Attention A/PIC-L. Bawon Arrange for a showcase with the head teachers of primary schools in the town. You organize with them for contributions."**

Contact: (-)

Provincial In-Service Coordinator -Mr. Lamang Bawon -Year 2015

Location: Madang Provincial Education Office

Comment: **"I have sighted the program's demonstration and I highly recommend this program...and hopefully purchase for implementation."**

Contact: bawonlamang@gmail.com 70753771 / 73085009

## **Issues This software system addresses**

- ◆ *Increases accuracy & efficiency in Student Assessments Processing & Compilations*
- ◆ *Provides a much wider Student Assessment Evaluation approach from just Ranking, Grading & Percentage Calculations to include Ability Group Classification & National Cut-offs Indications.*
- ◆ *The Province of Origin-[Madang Province] is rated very low over the past few years in the National Examination Ratings compared to other provinces. This software system has features that will assess students compared to the National-cut offs, thus prepare students in advance before the national examinations. This greatly increases the pass-rate of students in the National Grade 8 Examinations Success stories: Waput SDA Primary School, Chungribu Primary School, Teptep Primary School, Behir Primary School. It is the cutting-edge tool that will assist teachers in elevating the Provincial Academic Performances in relation to the National Examination Ratings.*
- ◆ *Relief stress from teachers in student assessment processing and compilations.*
- ◆ *Provides a fair, non-favoritism approach to assessment compilations. Students are assessed accurately based on their academic performances.*
- ◆ *Provides timely assessment information to schools' administration, thus eliminating delays in schools' assessment compilations and students' reports production.*

## **Implementation Training Links to some of the schools [Video documentaries]**

1. *National MTV News Coverage –2018*  
[https://www.dropbox.com/s/d6wvt4lzvdkw0fm/assessmentwizard\\_on\\_mtv.mp4?dl=0](https://www.dropbox.com/s/d6wvt4lzvdkw0fm/assessmentwizard_on_mtv.mp4?dl=0)
2. *Comprehensive video training coverage*  
<https://www.dropbox.com/s/b8adye22i2ufdmz/AssessmentWizardDocumentary.mp4?dl=0>
3. *Behir Primary Training Video Coverage*  
[https://www.dropbox.com/s/tys787mhwq1q1th/Behir\\_training.mp4?dl=0](https://www.dropbox.com/s/tys787mhwq1q1th/Behir_training.mp4?dl=0)
4. *Ginitoka Primary School Training –Eastern Highland Province*  
[https://www.dropbox.com/s/h9hdzu2eft4crb5/GinitokaTraining\\_EHP.mp4?dl=0](https://www.dropbox.com/s/h9hdzu2eft4crb5/GinitokaTraining_EHP.mp4?dl=0)
5. *Male Primary School Training Video*  
<https://www.dropbox.com/s/c89r06ryppwps13/MalePrimarySchoolImplementation.mp4?dl=0>
6. *Waput Primary School Testimony Video*  
[https://www.dropbox.com/s/m6exq42nciq5m7q/Waput\\_result.mp4?dl=0](https://www.dropbox.com/s/m6exq42nciq5m7q/Waput_result.mp4?dl=0)
7. *West Goroka Primary School Training Video*  
<https://www.dropbox.com/s/ranogo58tv42m25/WestGorokaPrimaryImplementation.mp4?dl=0>
8. *Assessment Wizard Demonstration Video*  
<https://www.dropbox.com/s/2izw5z3ge2bmr6j/WizardDemo.mp4?dl=0>

## 2. Teachers Leave Fares

Analyzes all teachers data, calculates their respective leave fares and generate reports automatically. Runs based on conditions/factors: Location of teaching, fares, age groups, eligibility)



### **Project Details:**

*Project Title: Teachers' Leave Fares Database Management Systems*

*Software Designer: Destinysoft Microsystems*

*Originating Organization: Provincial Education Division*

*Mr. Alfred Reu Leave Fares Officer -2017*

*Contact: 73951969*

*Project Type: Database Management System*

*Year of Development: 2018*

*Development Time: 4 months of Development*

*Application Type: Desktop Stand-alone Application*

*Model Status: Workable Model –70% Complete*

*Claims: Very Comprehensive, Pioneer Leave-fares Application*

**Comments:** *This software system is designed upon seeing the need for a automated Teachers' Leave Calculation. Case in point-Madang Teachers Leave Fare Calculations is an on-going issue. Apart from long delayed calculations, complains of errors in leave fare calculations from concerned teachers have been on-going for years. Given the huge number of teachers within the province, it is evident that it is a laborious exercise to do a detailed calculation per teacher given the many factors to be considered (**number of children, age of depends/children, location of teaching, 2 year factor, gender applying, child over 18 year factor, home province, air/land/sea transport fees, marital status, etc**). The aim of this software system is to reduce costs involved in leave-fare calculations, reduce time taken to do the calculations from 3 to 4 months to just under 20 minutes and finally to eliminate errors in calculations to near 100%. **Due to recognition and funding factor by education division authorities [in Madang] , the actual system is pending completion.***



### 3. Ward Profile Database Management System

Drop Box: <https://www.dropbox.com/1/vgoef998c73i4/ProgressiveInformation.pdf?dl=0> (full document link)

Pioneer Ward Profile System. Generates sector reports (Education, Health, Works, Courts, etc). Generates graphs and delivers accurate and vital information for Government Service Delivery.



#### **Project Details:**

Project Title: Ward Profile Database Management System

Software Designer: Destinysoft Microsystems

Originating Organization: Eyewhy Foundation Inc

Director Mr. Mark Meninga & 1st Secretary-Ministry of Community Dev.-2020

Contact: 72854445 Email: markmeninga@gmail.com

Project Type: Database Management System

Year of Development: 2019

Development Time: 9 months of Development

Application Type: Desktop Stand-alone Application

Model Status: Workable Model

Claims: Very Comprehensive, Pioneer Ward Profile Database Management System in PNG

#### **Presented To:**

Minister For Community Development

& Member For Jimi District -Wake Goi Year 2020

#### **Trial Implementations:**

Nebilyer -Tambul-Nebilyer District, Western Highlands Year: 2020

Tabibuka LLG -Jimi District, Jiwaka Province Year: 2020

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**Comments:** This software can be customized for a LLG, District or Province for a full cloud deployment upon client requirements.

Customization Time Required: 2.5 months

Application type: Web Application

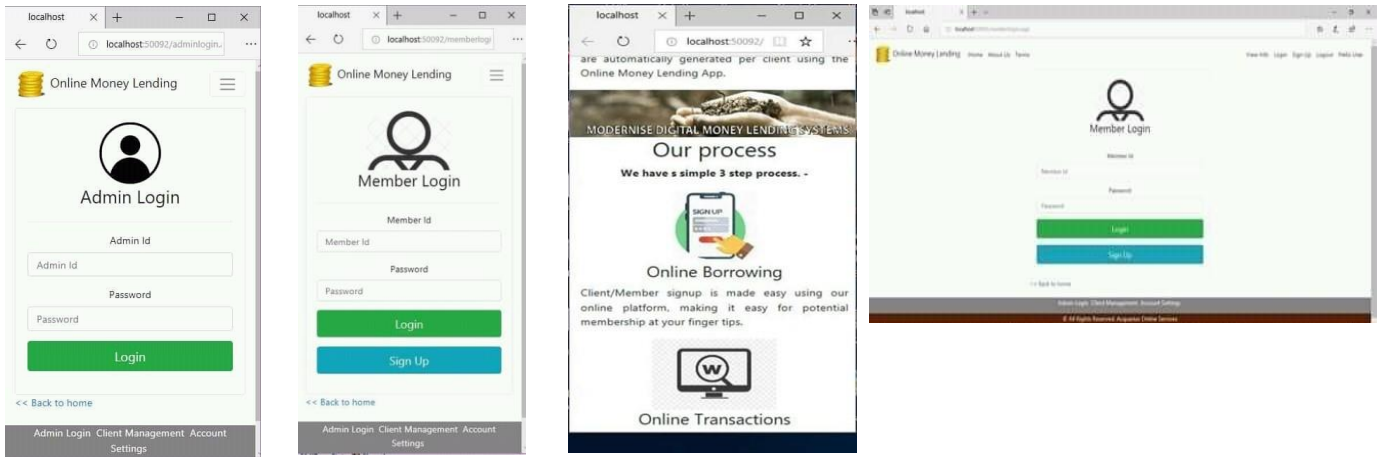
Cloud Service Provider: Amazon Web Services

All data will be centralized and information provided will be filtered based on user and user privileges.

### **Issues This software system addresses**

- ◆ *The current provincial, district and Ilg governments lack comprehensive, reliable information in regards to village, ward, Ilg, district and provincial sectorial information. Information such population, health information, government infrastructure, economic information, education Information, social issues, etc are not reliably and accurately captured, or in most cases not captured at all. Such vital information are essential for leaders/authorities to make the most informed, decisions for effective service delivery. This pioneer, comprehensive ward profile database management system is designed to address the above issue and provide provincial, district and local level governments with vital information for important decision making for effective service delivery to the people.*
- ◆ *Provide a complete Governments' Sectorial Ward Information with reliable up-to-date village, ward, Ilg, district & provincial statistics. Current national ward profiling approach is manual and thus time consuming, often out-dated statistics/information is retrieved and the manual approach is costly.*
- ◆ *A detailed auto-generated information is pre-configured and generated upon user request effortlessly with this ward profile database management framework while the traditional approach of manual data collection and processing is time consuming, laborious and prone to in-accurate out-dated information generation.*
- ◆ *Information can be automatically up-dated in real-time at the instant when ward data is up-dated by data entry officers. This simultaneously updates Ilg, district and provincial statistics/information. The current manual system is disadvantaged in this aspect. The manual approach is timing consuming at providing the much needed up-to-date information for concerned authorities' to make important decisions.*
- ◆ *This design is greatly a cost-saving approach compared to the traditional manual approach where lots of papers, labor-cost are included for data collection in villages and collectively produces a ward, Ilg, district and provincial data system.*

## 4. Money Lending Application (Web App)



### Features

- ◆ Members accounts registrations
- ◆ Members accounts log ins
- ◆ Members transactional statements
- ◆ Members requests for loans
- ◆ Accounts balances
- ◆ SMS Alerts / email to notify clients of loan status
- ◆ Backend SQL server, front end ASP.net (MVC)

*Client: Aquarius Online Services*

*Contact: Thelma K. Bukikun -73102369*

*Application Type: Web Application*

*Deployment Type: AWS Web Services, Cloud-platform*

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*Comments: This is a prototype web-application / money-lending application that has both desktop and mobile-featured registration, loan-request and user-profile web-forms. It is designed for the above client which will soon go on 'live' for services to the public servants. It is designed upon the client request.*

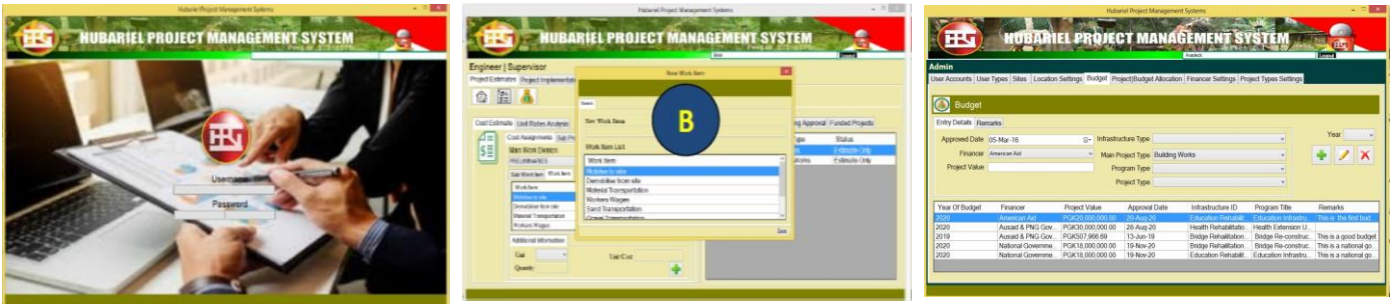
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## 5. Hubariel Project Management Application

Dropbox Link: [https://www.dropbox.com/s/dh5phs2tpwvjz67/hubarielprojectmanagementsystems\\_report.pdf?dl=0](https://www.dropbox.com/s/dh5phs2tpwvjz67/hubarielprojectmanagementsystems_report.pdf?dl=0)

A complete Project Management Software that does calculations and reporting on all infrastructure and civil works type projects. From Budgeting, Cost Estimating, Budget typing, Project Approvals, Bill of Quantity, Project Scheduling, Implementation, Progress Tracking, Invoice Reconciliations, Payments Tracking etc. Promises time saving and pin-point accuracy in Project Management



### Project Details:

Project Title: Hubariel Project Management Systems

Software Designer: Destinysoft Microsystems

Originating Organization: Hubariel Project Management

Mr. Rodney Sip Director –Architect

Contact: 72676361

Project Type: Database Management System

Year of Development: 2020-2021

Development Time: **2 years of Development**

Application Type: Client-Server Application

Model Status: Workable Model

Claims: Very Comprehensive, Pioneer Project Management Software system in PNG

**Comments:** This software can be customized for a LLG, District or Province for a full cloud deployment upon client requirements.

Customization Time Required: 2.5 months

Application type: Web Application

Cloud Service Provider: Amazon Web Services

All data will be centralized and information provided will be filtered based on user and user privileges.

**Development Supported by:** DDA -Middle Ramu District, Madang Province, Nukund Ward, Simbai LLG

## **Authorities Presented To:**

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### **NATIONAL LEVEL**

#### ***The National Executive Council-Office Of the Prime Minister -Year 2020***

*Location: 8th Floor Manasupe Building*

*Attendance: Directors (Transport, NAC, Works, Infrastructure), Ausaid,  
Compliance Advisor*

*Contact: Esther Litau –Adviser Compliance*

*Dept. Of Prime Minister & NEC*

*esther\_litau@pmnec.gov.pg Ph: 3019062*

#### ***Office Of The National Planning -Year 2020***

*Location: Vulupundi Haus*

*Attendance: 10 Member Senior Staff , Deputy Director-Policy, Deputy Director-PIP*

*Contact: Mr. Rodney Sip Director –Architect +675 72676361*

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### **PROVINCIAL LEVEL**

*Provincial Planner -Mr. Simon Simoi -Year 2020*

*Location: Madang Star International Hotel –Conference Centre*

*Comment: **“This is what the country needs to track all its projects throughout  
the width and breath of the nation.”***

*Contact: madplanning@datec.net.pg +6754221372*

#### ***DDA –Middle Ramu District, Madang Province -Year 2020***

*Location: Madang Star International Hotel –Conference Centre*

*Attendance: 3 LLG Presidents, MP -Middle Ramu District, Invited Guests*

*Contact: Rodney Sip -72676361 Project Owner*

*Provincial In-Service Coordinator -Mr. Lamang Bawon –Year 2020*

*Location: Madang Star International Hotel –Conference Centre*

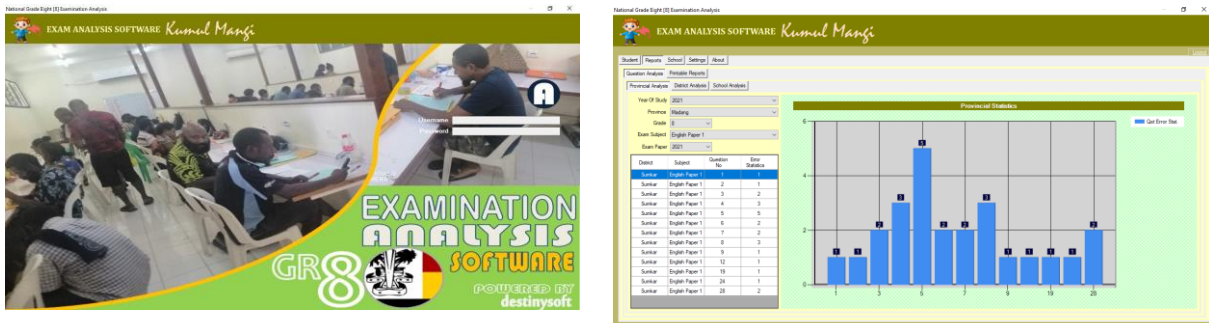
*Comment: **“This is a vital tool for project management. Authorities need to  
take it on board at the provincial level.***

*Contact: bawonlamang@gmail.com 70753771 / 73085009*



## 6. Examination Analysis Software

Analyze all student mock exam marks, and generate statistics, reports indicating the targeted areas in each exam subjects that needed remedial for students based on their mock exam performances.



Project Title: Grade 8 Examination Analysis Software

Software Designer: Destinysoft Microsystems

Project Type: Database Management System

Year of Development: 2021

Development Time: **6 weeks**

Client: Interested Province/Districts Government Authorities/MPs

Application Type: Desktop Stand-Alone Application

Deployment Type: Windows Installer

Model Status: Workable Model

### Features

- ◆ Analyze question errors by subject and generate performance reports based on student question errors
- ◆ Analysis questions'/topics that needed more attention for schools' performance improvements.
- ◆ Generate every school's examination performance reports, giving individual schools the opportunity for improvement in future examinations
- ◆ Analyze/compare district exam performances by grade 8 students
- ◆ Analyze overall provinces' Grade 8 Examination results and provide education authorities information on schools', districts' performances
- ◆ Has the potential to elevate a province/district National Examination Rating in the National Examinations. Thus improve their (district, province) education's academic level.

Comments: This is a prototype desktop-application. It is designed for interested provinces/districts authorities who are keen in improving their province/district education academic performances and needed are tool to help analyze and make targeted educational improvements, academically.

\* Upon request, this software can be customized to a cloud platform for a wider coverage and accessibility. Customization time- 6 weeks.

## 7. Kina Bank Merchants' Analysis Software

*Loads Daily Transactions per EFPOS terminal and does automatic reporting per month on Merchants' Sales on Kina Bank EFPOS Sales in order to provide information for Kina Bank Officers to strategize on increasing yearly Profit Targets.*

The software interface is titled 'Kina Bank Merchant Analysis Software'. It features a 'Merchant List' table with columns: Merchant ID, Merchant Name, Contact Name, Account Number, Contact Phone, Email, and Contact Address. Below this is a 'Merchant's Terminals' table with columns: Terminal ID, Serial Number, Terminal Name, Location, Digital Serial Number, Serial Number, and Installation Date. A summary section shows 'Total Merchants: 8' and 'Total Terminals: 22'. The right screenshot shows a 'Terminal Registration' pop-up window with fields for Terminal ID, Terminal Name, Terminal Location, and Installation Date.

*Project Title: Kina Bank Merchants' Analysis Software  
Software Designer: Destinysoft Microsystems*

*Project Type: Database Management System*

*Year of Development: 2022*

*Development Time: **Progressive***

*Application Type: Desktop Stand-Alone Application*

*Deployment Type: Windows Installer*

*Model Status: Work-In progress*

*Contact: Andrew Okem*

*Digital Sales Specialist*

*73788640 / [Andrew.Okem@kinabank.com.pg](mailto:Andrew.Okem@kinabank.com.pg)*

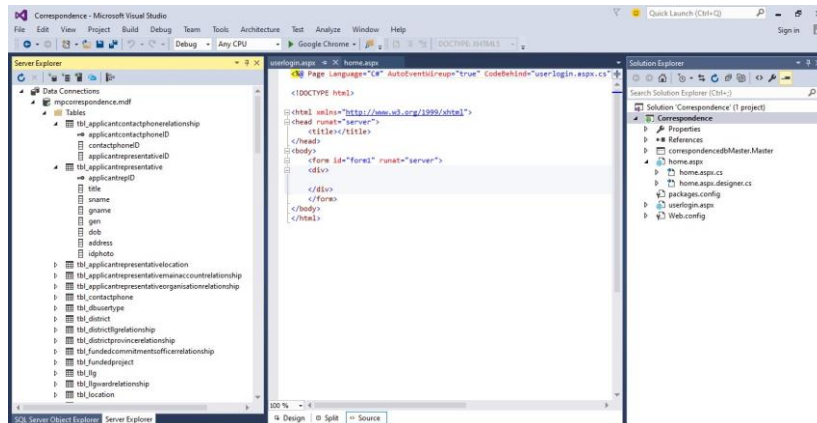
### Features

- ♦ *Loads all kina-bank efpos files into the software and analyze daily transactions and generate transactional reports (daily, weekly, monthly, etc)*
- ♦ *Generate statistics based on data loaded and provide comparisons on clients' business 'health' status*
- ♦ *Provide client with valuable processed information for important sales decisions to meet the bank's yearly profit targets.*



## 8. MPs' Correspondence Database Management System

*This framework is ready for a full-scale development upon requests from Members of Parliament to file all their people's project submission records, track each individual status and provide real-time reporting to officers and the Member/Governor in order to have a comprehensive, accurate Information when needed by officers and their respective MPs.*



*Project Title: MPs' Correspondence Database Management System*

*Software Designer: Destinysoft Microsystems*

*Project Type: Database Management System*

*Year of Development: 2022*

*Development Time: **Upon Client's Request (3 months requirement time)***

*Application Type: Client-server Win-forms Application/ Web Application Development*

*Deployment Type: Windows Installer / AWS Cloud-deployment*

*Model Status: Development & Customization Based on Clients' Requests*

*Contact: Emmanuel Avadeck Macclay*

*Software Developer*

*71214977 / macclaykal@gmail.com*

### **Proposed Features**

- ◆ *Different user accounts and dashboard/file records for different officers for registering and retrieving important data/statistics/information for decision making and reporting purposes.*
- ◆ *Reports can be configure to generate automatic reporting for the officers and Mp to meet reporting deadlines when required by the MP from time to time.*
- ◆ *It will be cloud-deployed meaning data-entry and information retrieval can be accessed anywhere where there is internet access.*
- ◆ *Data is centralized on cloud meaning a centralized reporting for the MP is possible for an overall automatic tracking of the progress of the MPs office and can be accessed anywhere by the MP using a tablet/laptop*
- ◆ *Project proposal submission registration, status indication (funded, pending, queried), mp's comments, cheque payments registry , sectorial funding reporting, district/llg, ward projects classification and reporting on projects' funding, etc. This is vital information for reporting to the National Finance Department as well as progressive information for the District/Province.*

## **Issues This software system addresses**

- ♦ *Financial Returns by District and Provincial Governments to the Finance Department, over the years, have been an issue due to the overwhelming number of project submissions over each year period and for a 5 year period. It has always been a challenge by each MP's political officers to record, analyze and generate reports on funding transactions and government service delivery. Having to address hundreds of clients per month, demands a proper filing system in order that information retrieval is efficient and accurate as much as possible. The possibility of data duplicates is unavoidable at times. Overall, when it comes to reporting for a specific period of time as required by the MP, it is can be quite stressful and the validity and accuracy of figures can be an issue.*

*The concept of MP's Correspondence Database, (in which the back-bone database tables been already designed), aims to address this issue by providing an effective and accurate registry system which will automate the entire reporting system and disseminate valuable, up-to-date reliable information to the officers and the MPs concerned in real-time. This will greatly boost professionalism amongst the staff and ultimately provide a transparent effective service delivery to the people as well as a 'good name' for the Member Of Parliament..*

- ♦ *Each MP's office administration has its own approach in filing submissions and respond to those submissions. Each of them have their own reporting style. As such this system leaves much to be customized to suit the reporting style of each MPs Office staff.*



## 9. Papua New Guinea Teachers' Association Web Application Portal

<https://pngta.info>

This is the most recent web application online portal for National Teachers Association.

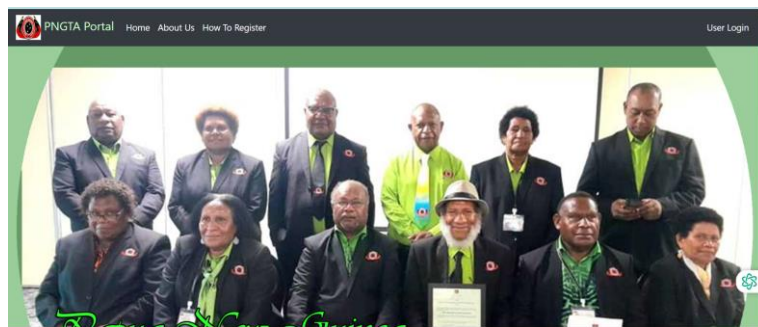
This project had a national-scope, data-collection and implementation where member-teachers would use the online platform to register and the system will keep track of all the members nation-wide. This system is very efficient and keeps track of all the members from different schools in different provinces within the nation. It is a project with a national implementation scope. Here is the link of the news of this implementation:

1. [https://youtu.be/6k7gYPXKM\\_Q?si=YI6fqUG5UrVCJs2k](https://youtu.be/6k7gYPXKM_Q?si=YI6fqUG5UrVCJs2k)
2. <https://youtu.be/-0E5M0C-GMg?si=2PNygSblQINnxqg6>

The online system will ensure a smooth, streamlined data collection, information generation and dissemination within the organization. The data-collection platform was completed within 3 months and the training was conducted within 1 week to all the regional representatives. The overall designing and training was a success. The system is awaiting to proceed into phase two of the project which is a comprehensive online portal designing for the entire organization's daily operational needs. The system can be accessed both using desktop/laptop and using a mobile phone. It is designed to adjust to fit different devices for efficiency.

The system keeps track of all data from the provincial, regional and national level.

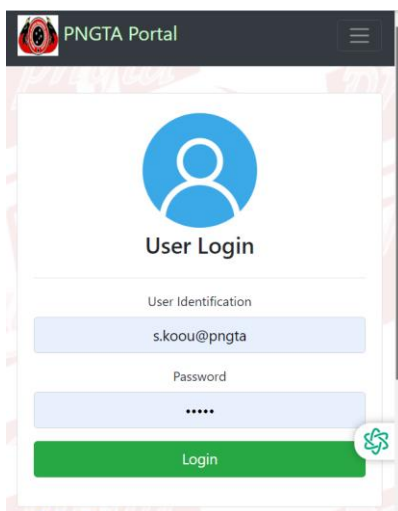
### a) Desktop version



### b) Mobile Version



### b) Mobile version login screen



## Experience and Technical Expertise

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### Specialist Skill Sets

#### .Net Software Development Specialist (over 12 years experience)

(Microsoft Development Studio-C#, VB.Net, ASP.Net Technologies)  
Visual Basic For Applications

#### Database Servers

MS Sql Server 2008,2014 (9 years)  
MySQL DB  
Oracle DB –Oracle Developer Tool (Environment)

#### Amazon Web Services Specialist Trainings

AWS Certified Solution Architect Associate  
AWS Cloud Practitioner