



Software Requirements Specification

**Automation of Royalty Regime of Mines & Minerals
Department, Government of Balochistan (Software)**



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COMPANY PROFILE

ABOUT **Stepnex**

TURNING CONCEPTS INTO REALITY

Stepnex Services is leading Information and Communication Technologies (ICT) service provider and software developer. We operate internationally through our offices in USA, Qatar, Dubai and Pakistan since 2007. We offer a broad range of services including technology consulting, custom application development, mobile applications development, cyber security, Internet of Things (IoT) and Big Data Solutions. We design, develop, support and promote software ICT applications using integrated state-of-the-art technology and provide IT Consulting services with high quality assurance standards.

Using a global delivery model that leverages our cost-effective onshore and offshore development centers located at Virginia, Islamabad and Doha, we provide high quality solutions on schedule. We build long-term partnerships with our clients, providing value on a sustained basis, leading to mutually beneficial engagements.

Stepnex Services is quality-focused company and continuously strive to attain highest organizational maturity to provide better value to our clients. Our domain skills, technology expertise, and business and engineering processes ensure that we are dependable business partners to our customers.

Our management team comprises a judicious mix of technocrats and professionals with specialization in a wide spectrum of industry segments. We nurture a rich cross-cultural work environment that promotes individual and organizational excellence in everything we do. We have most experienced team of talented, committed, and highly qualified professionals who have diversified exposure to both public and private sector organizations in the field of education, finance, logistics, defense, security, manufacturing, health care and technology, including international, multinational, non-governmental and multilateral organizations.

We can't afford or even think of deviating from our commitment to quality, service excellence, and professionalism and most importantly customer satisfaction. We are truly client-centered company and everything we do is designed around ensuring our clients' total satisfaction. We believe that our assignment is complete, only when the client is entirely satisfied and the project is delivered or goes live.



Corporate Highlights

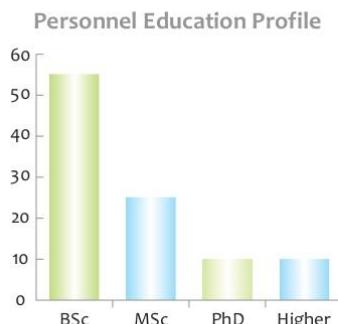
Industry Leader to the Government

Sector in South Asia, Middle East and USA

Stepnex Service is a leading company in the provision of integrated ICT services to the government sector in South Asia and Middle East, both at national and international level. The Company offers a wide range of advanced ICT products and services allowing the implementation of e-Government, e-Procurement and e-Business concepts and strategies

Expert Management Team and Highly Specialized Engineers

Stepnex Services has been founded and is currently run by an expert management team with vast international experience and deep technological knowledge. The Company has expanded by recruiting and retaining highly educated and specialized engineers, that are building a unique experience through the implementation of technologically advanced IT projects at an international level.



Leading Product Portfolio

Stepnex Services develops its own ICT

products, software platforms and integrated turnkey solutions for its customers with a favorable cost/quality ratio. The expertise developed is based on the latest, state-of-the-art technologies. The Company has built up a particularly strong reputation amongst its client base for quality and innovation.

Cost Effective Platforms

The relatively low cost structure and the availability of high level personnel in the primary corporate and employment locations, allows the delivery of competitively priced products, with the retention of healthy profit margins for the Company.

Strong and Diverse Client Base

Stepnex has established a high quality clientele of over 100 major customers, whose ICT procurement schedule focuses on state of the art technologies. The South Asia, Middle East and international institutions and organizations, constitute one of the best IT markets, in which the Company has built an exceptional track record. Stepnex progressively positions itself to the whole government sector market in the Middle East and Pakistan. In this field, the first clients are Government Organizations and Ministries in Pakistan, Qatar and UAE, etc.

The Company has a track record of various prestigious projects and currently has a

pipeline of signed projects worth more than 100 M\$. The majority of the pipeline consists of various projects with organizations like the FIFA Supreme Committee, Government of Qatar, Ministry of Transport and Communication (MoTC) Qatar, Federal and Provincial Governments in Pakistan, World Bank and USAID Funded projects in Pakistan, Other Government Organisations, Ministries and government sector inn Middle East, etc.

International Orientation

The Company offers its products and services to organizations in the public and private sectors, in 5 countries worldwide. These include government institutions, multinational corporations and large companies, research and academic institutions.



SERVICES WE PROVIDE

Stepnex Services is a competent provider of any kind of ICT Turn Key solutions including mission critical business applications, complex engineering software, data centric analytical software, smart device solutions, Cyber Security Solutions, web solutions and so on.

Our expertise lies in clearly perceiving the business goals of our customers, choosing the most appropriate technologies and efficiently developing solutions catered to the business needs

APPLICATION DEVELOPMENT SERVICES

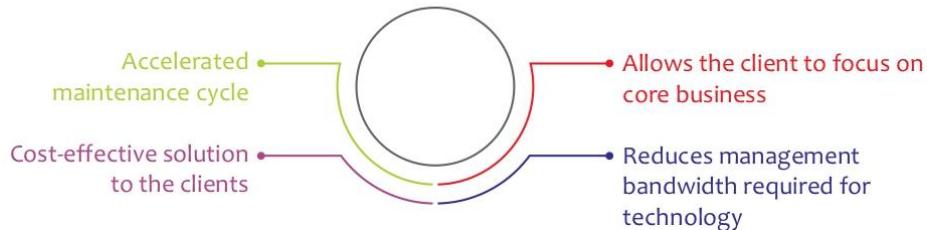
Stepnex Services has an enviable and consistent record of having completed projects on time and within budget. This consistency has been our hallmark. Best practices from previous projects are systematically captured in our knowledge repositories, without compromising on any confidentiality. These help us in rapidly shortening the turnaround cycles. We closely watch emerging technology and process trends such as rapid application development and component-based software, to provide timely benefits to our clients.

One of the challenges that many companies face today is maintaining and enhancing existing systems, while still requiring key technical resources to be available for the development of new systems.

To support our clients in addressing these challenges, we offer the following services.

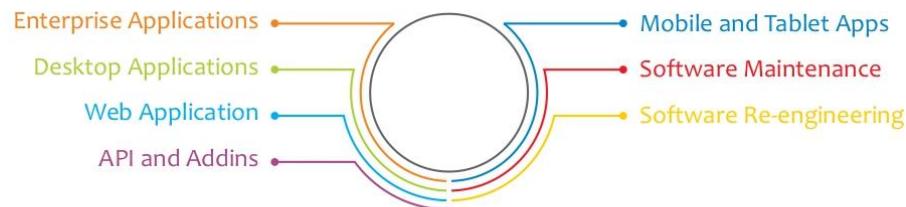


Our experience in application development combined with a tested offshore delivery model aims at



SOFTWARE DEVELOPMENT

We offer rich, user friendly and robust applications in combination with any modern database system. The application can be totally standalone running in a single machine, network solutions or cloud based internet connected application. Services include:



DATABASE DEVELOPMENT

We offer different types of database development services from design to reporting. Stepnex is experienced in standard database technologies like Oracle, Microsoft SQL Server, MySQL, SAP, PostgreSQL and different Big Data and Cloud database systems. We maintain best practices in planning, development, maintenance and security including ongoing monitoring and automation when need. Services are:



MOBILE APP DEVELOPMENT

Our team of experienced mobile apps developers and designers can build an app that will live up to your vision enabling you to leverage mobility to maximize productivity. Stepnex is developing business critical solutions for mobile devices for Android, iPhone, Windows Phone and BlackBerry giving you and your team more flexibility when you are moving. Stepnex team is experienced in developing mobile application since 2004 using old timer PDA, Pocket PC and Java enabled phones. Platforms.

Android

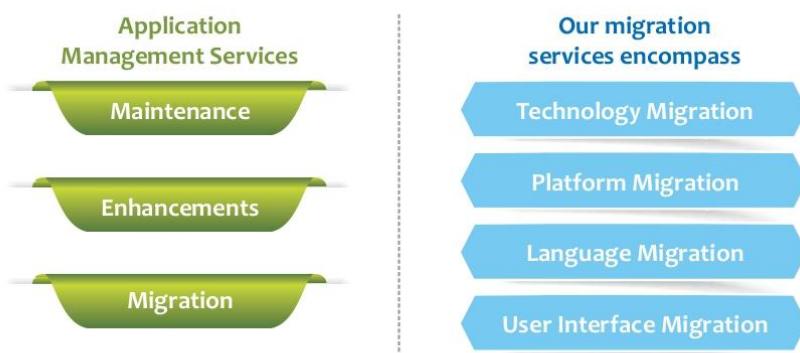
Windows Mobile

iOS

APPLICATION MANAGEMENT SERVICES

In these days of rapid technology changes, companies are facing a compelling need to make their products and services available on newer and more advanced platforms. Existing IT solutions thus needs to be continuously modified and enhanced to support the improved business process.

Stepnex Software Migration and Re-engineering services help our clients in migrating or re-engineering existing systems, in a reliable and cost-effective manner.



Our migration tools range from simple code parsers, complex data-schema generators to highly sophisticated build environment generators. These lower the execution costs significantly, while simultaneously reducing cycle times.

Our strong re-engineering discipline enables our clients to leverage newer technologies that provide flexibility and faster time-to-market. Our team of business and technology

analysts assesses our clients' re-engineering requirements, and provides recommendations on the best and the quickest course to achieve the same.

Our skilled and experienced engineering wing collaborates with clients in implementing the recommendations quickly and cost-effectively

TECHNOLOGY CONSULTING SERVICES

Stepnex consulting services help clients conceive, plan and execute their business strategies, by aligning them with their information technology initiatives. Our consultants, with a broad mix of industry and technology experience, collaborate with client executives to evolve strategies and solutions most appropriate to them. These strategies and solutions enable our clients to leverage new technologies, while protecting their current technology investments.

Our skilled consultants help our clients in aggressively accelerating time-to-market and realizing business advantages much ahead of competition. We work with our client to understand their requirements completely. Based on a thorough and careful analysis, we develop the best and the most optimal technology strategy for the client.

Our consulting services are an end-to-end offering, incorporating the right technology with industry best practices, to deliver high value business solutions.

CYBER SECURITY SERVICES

Stepnex Services offers solutions and services

Cyber Security: To protect your information and reduce your exposure to security risk in a globally connected world.

Secure Mobility: To enable you to work securely wherever your mission takes you across and beyond the enterprise.

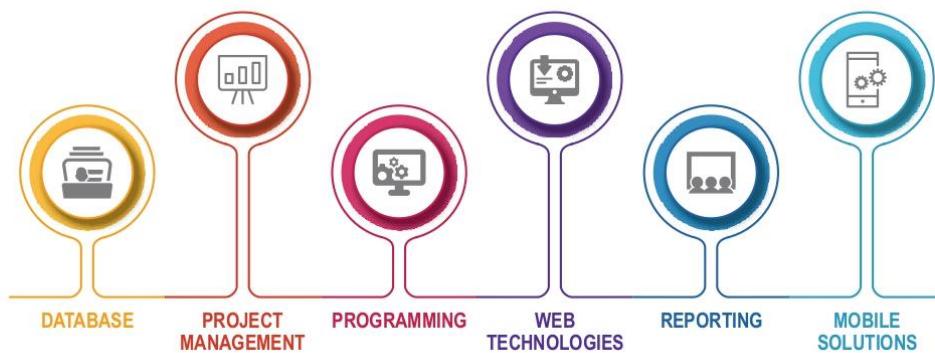
Identity Management: To establish trust in people working for you and with you now, and in the future.

Cyber Security Help and Consultation

- » Penetration Testing
 - External Network Penetration
 - Internal Network Penetration
- » Application Security
 - Web Application Security
 - Mobile Application Security
- » Compliance and Accreditation
- » Employee and Equipment Monitoring Services
- » Secure Products
- » Trainings

TECHNOLOGIES AND EXPERTISE

Here is a list of tools and technologies used for different software development projects we are offering, including but not limited to



DATABASE

- » Microsoft SQL Server
- » Oracle Database Server
- » MySQL
- » PostgreSQL
- » MongoDB
- » Apache Cassandra, Hadoop
- » DynamoDB

PROJECT MANAGEMENT

- » Scrum, TDD, CI
- » Microsoft Project Server,
- » Microsoft Project
- » Jira
- » Trello, Redmine

MOBILE SOLUTION

- » iOS Apps
- » Android Apps
- » Windows Phone Apps
- » Black Berry Apps



PROGRAMMING

- » C#, Microsoft.net, Win Form, WPF, UWA, ASP.net, Entity Framework, nHibernate, ODBC, ADO.net
- » JavaScript, JQuery, AngularJS, Bootstrap, Google Maps JS API
- » Android SDK
- » Swift for iOS
- » Python
- » PHP, Laravel
- » Java, Java Swing, Java FX, Java EE, Spring Framework, Hibernate, JDBC
- » Eclipse, Che, NetBeans, Microsoft Visual Studio, Android Studio, Xcode
- » Ruby, Ruby on Rails
- » Microsoft Visio, Rational Rose
- » Git, SVN, Team Foundation Server
- » Maven, Gradle, Nuget
- » Microsoft Installer, Install shield



REPORTING

- » iReport
- » Crystal Report
- » Microsoft Reporting Server
- » Microsoft Client reports
- » HTML5
- » CharJs, Google Chart, Flot



WEB TECHNOLOGIES

- » Web 2.0 / Web Services/soaP
- » HTML5 / XHTML, css, css3, CMs

OUR PRODUCT PORTFOLIO

ROPE: A SECURE DEFENSE GRADE COMMUNICATION PLATFORM

A comprehensive communication solution catering for the needs of strategic organizations through provision of text, voice, video and email communication.

Rope provides secure end to end encryption using military grade encryption techniques, in order to stop intruders from listening on the communication happening via Rope application. Packets are encrypted on sender's device and can only be decrypted on the devices of intended audience. Rope employ's different server side components to facilitate in communication, those components help define the message routes but are not capable of reading or storing the message content.

ROPE Features

- » Switch to SMSC in case of no internet connectivity
- » Encrypted/Secure file transmission and storage
- » Application level security
- » No server side storage
- » Configuration level security
- » Contact list privacy
- » Fully encrypted local storage
- » 32kbps for audio calls
- » Per message random symmetric key
- » 512 kbps for video calls

ROPE - Process Flow



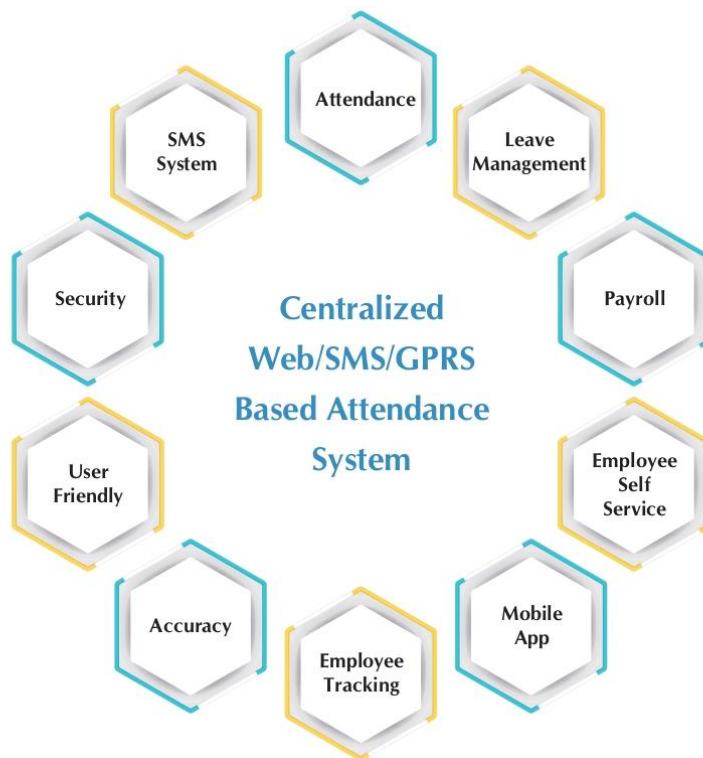
CAPABILITIES	SECURITY FEATURES	SETTINGS
 <ul style="list-style-type: none"> » 1-1 Messaging » Group Messaging » Voice Calls » Video Calls » File Sharing » Location sharing » Fully Encrypted 	 <ul style="list-style-type: none"> » AES256 Encryption » Diffie – Hellman » Secure Hash Algorithm » Each message encryption key » Forward secrecy for past sessions » AES256-CBC for storing messages » Device Authentication 	 <ul style="list-style-type: none"> » Edit Profile » Starred Messages » Account » Chat options » Change Application security pin » Sync Contacts

MESSAGING FEATURES	CALL FEATURES
 <ul style="list-style-type: none"> » Encrypted Messages » Only white listed users can communicate » Internet & SMS chat options » Group chat » Favorite message option » Message delivery and seen timestamp » Message copy » Share files & location » Video & Audio clip recording and sharing » Sharing from gallery » Mute a Conversation » Reset Encryption Session 	<ul style="list-style-type: none"> » Encrypted Calls » Only white listed users can communicate » User can initiate voice call » User can receive a voice call » User can initiate a video call » User can receive a video call » Call logs with information like Timestamp » Type of call » Duration

TIMENEX®

Cloud Based Biometric Attendance Management and Monitoring System

Timenex® is an advanced GPRS-GSM based Biometric Attendance Management & Monitoring Solution designed to assist Educational Institutions Corporates, Government Organizations and Educational Institutions to manage and monitor the attendance of their employees & students from anywhere in the world through their devices (computer, ipad, mobile phone, etc). Timenex® is designed to help institutions/organizations to reduce their administrative overhead by eliminating the time spent on manual calculations, decrease overall labor costs, and to shrink the gap between payroll policy and actual practice. It also provides an innovative approach to reduce the communication gap between institutions & employees or students.



Timenex® solution is equipped with highly reliable Biometrics Fingerprint Machines with built-in battery backup of 3-4 hours which eliminates the trouble of power-failure. It is equipped with the fastest commercial-based fingerprint matching algorithm and high-performance; high-image quality optical fingerprint sensor.

GRIEVANCE REDRESSAL SYSTEM

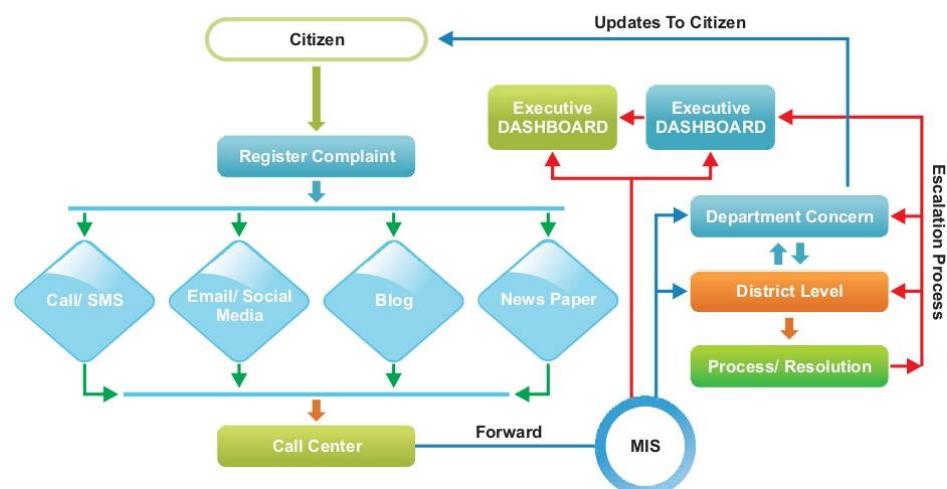
Grievance Redressal System is a web based system specially designed for public sector organizations to address public grievance to the government. Some of features is a regular update to the citizen/complainant on the work in progress on his/her complaint until redressal/ closure. This solution is integrated with Official Web Portal for Government Departments.



The broad objectives of this programme are given below:

- » Improve services delivery to citizens:
 - » Call Centres to log complaints and get information
 - » Online ability to register & track complaints
 - » Reduction in the cost of service to citizen by providing government information to the public through a website as well as alternate channels
 - » Ensure transparency in government-public interactions
 - » Interactive voice response system to check status of the application relating to complaints.

COMPLAINT RESOLUTION CYCLE





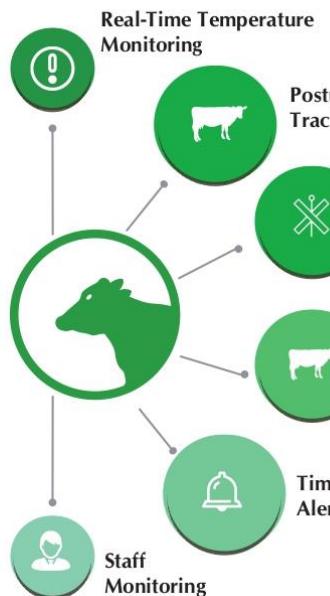
Internet of Animals

POWERED BY HYPERNET

Part of Hypernet IOT platform, Internet of Animals (Cow) is about real-time monitoring and management of your cow(s). With the help of smart wearables to gather real-time insights about your animal and using our own development algorithms, we provide an analytical platform for Farm owners, caretakers and others to know when to act, increasing milk yield, cow well-being and have greater operational efficiency of your farm.



FEATURES



ADVANTAGES





Internet of Fleet

POWERED BY HYPERNET



Part of Hypernet IOT platform, Internet of Fleet helps you manage your Vessel(s) & Fleets. With the help of sensors & gateways, We provide you a platform for real-time tracking, geo-fencing and an analytical engine to help you increase operation efficiency and reduce OPEX by monitoring fuel consumption, temperature changes, speed, driving behavior and more.

FEATURES



ADVANTAGES





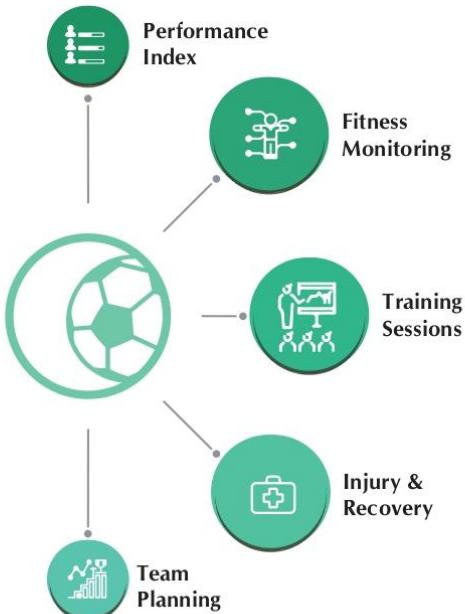
Player Performance

POWERED BY HYPERNET

Player platform is a complete solution to monitor the Athlete's performance and Physical Fitness. Using a real time health metrics from a smart wearable device and the Athlete's Match performance stats, it provides you Fitness and Performance Index's. The analytics can be leveraged to design the squad, manage fitness routines and get the maximum out of athletes.



FEATURES



ADVANTAGES

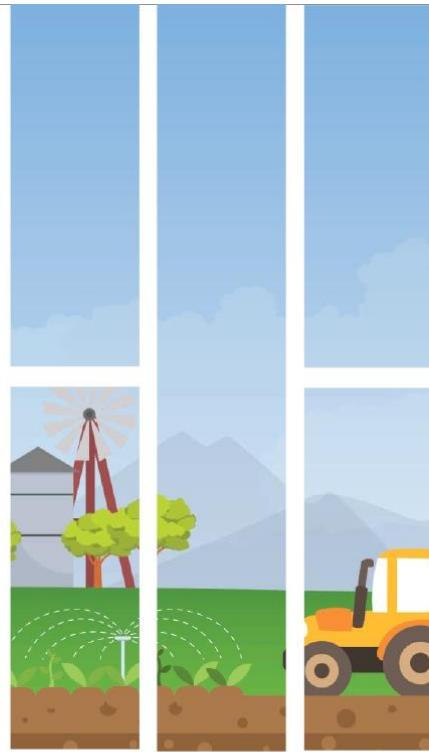




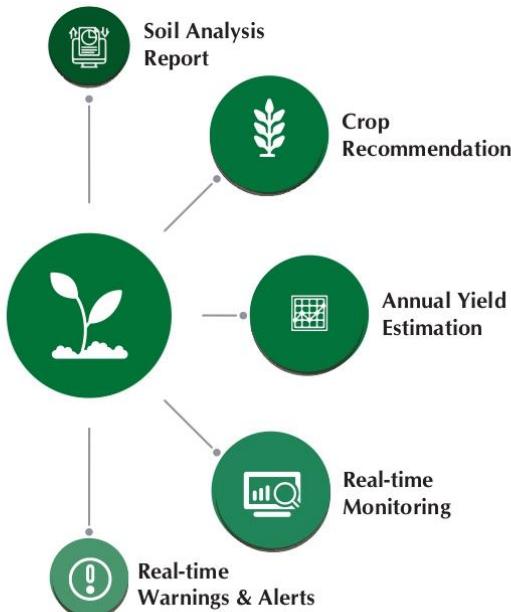
Precision Farming

POWERED BY HYPERNET

The Hypernet IoT platform provides farmers with a consolidated and easily accessible digital platform by leveraging the power of Real-Time data upload and evaluation by an analytics engine to escalate productivity. The Precision Farming dashboard provides an overview of the field operations, crop yields and produce profit analysis, enabling farmers to manage agricultural input resources more effectively.



FEATURES



ADVANTAGES





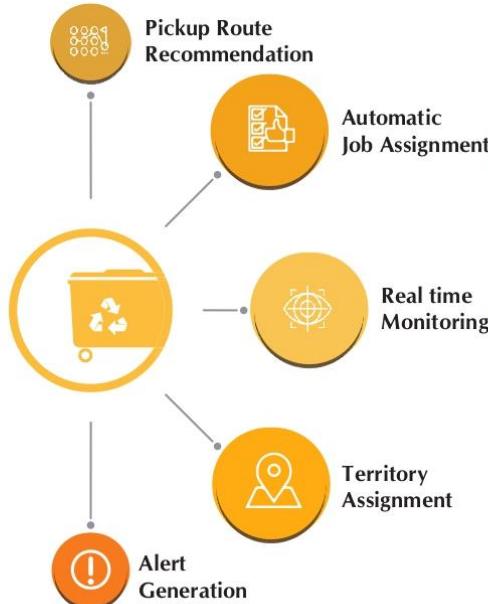
Waste Management

POWERED BY HYPERNET

Part of Hypernet IOT platform, Internet of Waste Management helps you manage your Fleets & Waste Bins. With the help of sensors & gateways we provide you a platform for real-time monitoring, territory allocation and an analytical engine to help you increase operational efficiency and reduce OPEX by curbing penalties incurred via generating timely alerts, recommending best pickup routes, automating everyday operations and more.



FEATURES



ADVANTAGES



PARTNERS & CLIENTS



MIS SYSTEMS

Customized Software Solutions

1	MIS for Diplomatic Protocol and Immunity Sections of Protocol Office (PROSYS) of Ministry of Foreign Affairs of Pakistan, for All Diplomatic Missions in Pakistan
Ministry of Foreign Affairs, Pakistan	
2	Design and Development of Online Media Monitoring and News Dissemination and Analysis System for Governor Secretariat KP
Governor Secretariat , Government of Khyber Pakhtunkhwa	
3	Development of MIS for KP Grievance Redressal System
Education Department, Government of Khyber Pakhtunkhwa	
4	Development for E-Show Casing of Industrial Product and Services & Provision of Hardware and Server Room Renovation for Web Portal
Industries Department of Government of Khyber Pukhtunkhwa	
5	Development of Web based M&E Software for Strengthening of Planning & Monitoring Capacity of Agriculture Department
Agriculture, Livestock & Cooperation Department, Government of Khyber Pakhtunkhwa (On-going Software Development, Data Entry and Website, Govt. Sector)	
6	Development of FATA ADP System for Project Planning &Management
FATA Secretariat, Government of Pakistan	
7	Development of WEB based M&E and ADP System of P&D Department, Govt of Khyber Pakhtunkhwa
Planning and Development Department , Khyber Pakhtunkhwa, Funded by World Bank	
8	Hospital Management Information System
Abbas Institute of Medical Sciences, Muzaffarabad, AJK	

9	Automation and Public Service Commission (PSC) Government of AJK Information Technology Board , Government of AJK
10	Web-Based Projects Monitoring & Evaluation System Developed for Strengthening Rule of Law in Malakand Project – UNDP - SRLMP
11	Public Accounts Committee M&E System, National Assembly, Pakistan Monitoring & Evaluation System for the audit paras of Public Accounts Committee, Federal, Islamabad.
12	Online Projects Monitoring & Evaluation System Developed for Local Government and Rural Development Department (LGRDD) GoKP
13	Help Line - Facilitating help lines respond to GBV survivors to combat Gender Based Violence (GBV) - USAID Being Established with JV of KhwendoKor Peshawar
14	BPR & Architecting, and Designing of Grievance Redressal System for Peshawar High Court Designed and architected by Mr Arif Khan CEO Stepnex
15	Titan Telecom – United Kingdom Customer Service, Data Entry& Telemarketing Service provided to Titan telecom a Subsidiary of British Telecom

BASIC REQUIREMENTS

HARDWARE REQUIREMENT

HARDWARE REQUIREMENT – APPLICATION SERVER

Component	<i>Minimum requirement</i>
Processor	Dual Intel® Xeon® Second Generation Scalable Processor
RAM	32 GB (Scalable)
Storage	240 GB for system drive (Scalable)

HARDWARE REQUIREMENT – DATABASE SERVER

Component	<i>Minimum requirement</i>
Processor	Dual Intel® Xeon® Second Generation Scalable Processor
RAM	32 GB (Scalable)
Storage	480 GB for system drive (Scalable)

OPERATING SYSTEM AND SOFTWARE REQUIREMENT

OPERATING SYSTEM

Environment	Minimum requirement
Application Server	Windows Server 2019 (Updated Patched)
Database Server	Windows Server 2019 (Updated Patched)

SOFTWARE REQUIREMENT

Environment	Minimum requirement
Application Server	.Net Core 3.1 (Hosting bundle) Updated Patched Info : https://dotnet.microsoft.com/en-us/download/dotnet/3.1
Database Server	SQL Server Enterprise Edition (Updated Patched) (Port Configured) Info : https://docs.microsoft.com/en-us/sql/sql-server/install/configure-the-windows-firewall-to-allow-sql-server-access?view=sql-server-ver15

SYSTEM MAIN HEADER

SYSTEM SETTING

MAIN

This system builds to provide a digital overview of the revenue of the department by inputting digital forms and financial logs, this system allows to track the contractor activity, revenue, and leasing period. This system will also log other sister businesses and track the record.

This is an ERP for the Automation of Royalty Regime of Mines & Minerals Department. This system is consist of four major components

1. Rahdari Management System
2. Lease management system
3. Finance Management System
4. Inspect & Litigation System
5. Main Dashboard

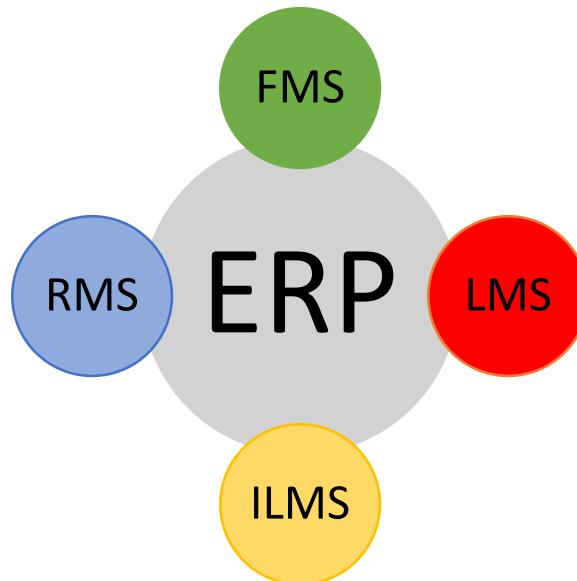
The Rahdari Management System (RMS) is going to monitor the raw material out-flow quantity. When an authorized cardholder arrives with his vehicle, following tasks would be performed in system:

- Search Mine Owner Profile
- Record Empty Truck weight
- Record truck weight with loaded minerals
- Record Truck Details

The Lease Management System (LMS) contains all site information that needs approvals and for documentation purposes. This system deals on the administration level and can provide a dashboard view to the user that helps the administrator monitor all types of approvals and pending.

Finance Module (FMS) is the one of main component for “Automation of Royalty Regime software” that handles the main accounting and financial management functions of mines department. It contains standard accounting records, such as the general ledger (GL) and balance sheet; generates financial reports; and handles royalty transactions, rental claims, receivables and expense reporting. The finance module, which is also referred to as ERP core finance or financial management, also commonly supports functions such as profitability analysis and revenue management.

Inspection & Litigation Module (ILMS) will automate mines inspector and judicial branch litigation process. This module will assist department to evaluate quality standards during mine exploration site visit and also notify litigation process to mine contractor.



ARCHITECTURE

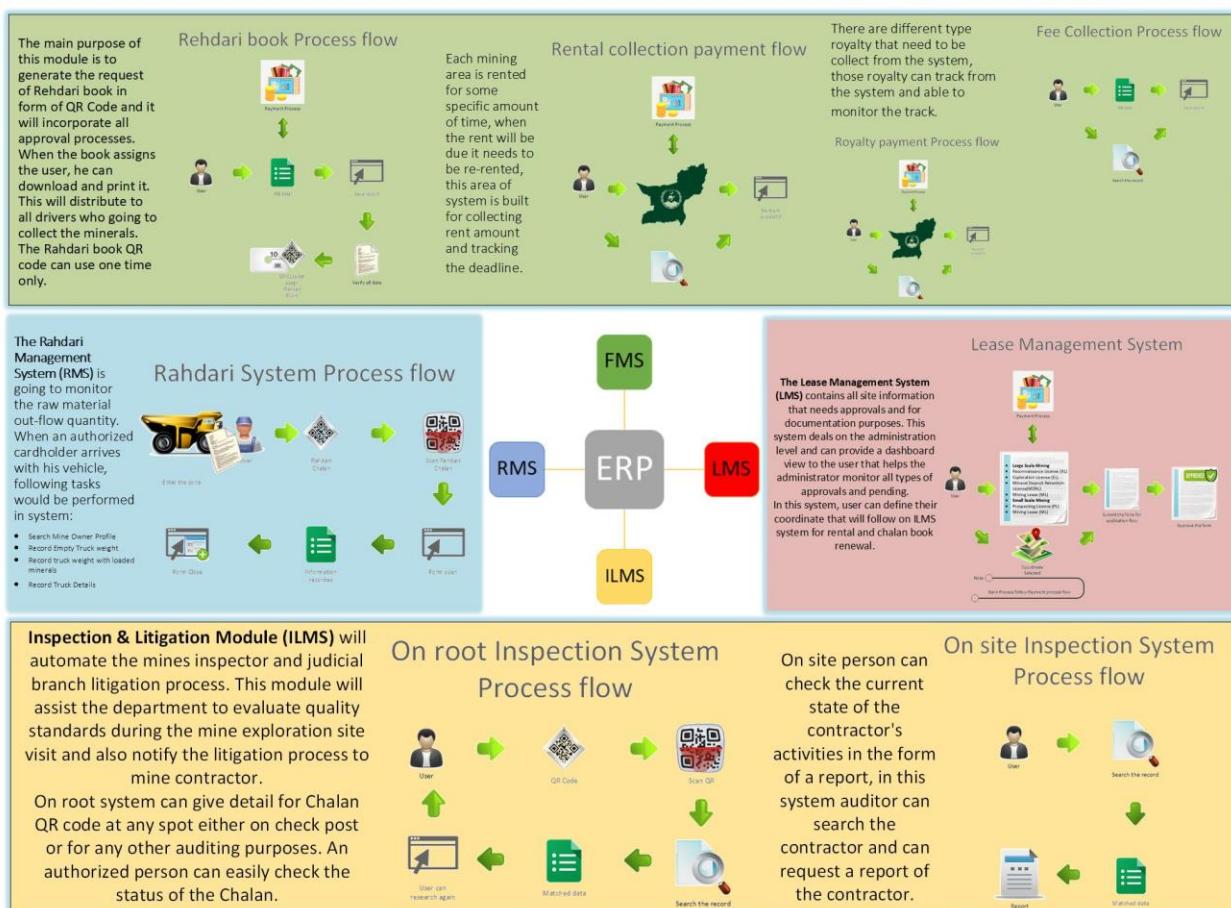
Automation of Royalty Regime of Mines & Minerals Department, Government of Balochistan (Architecture)



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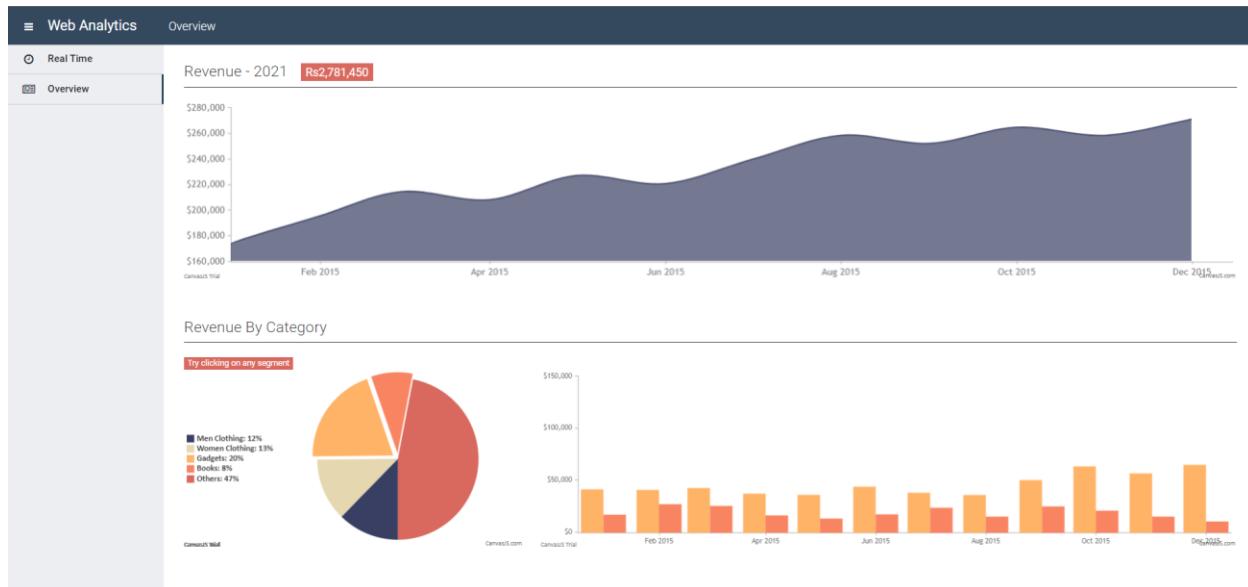
1. Rahdari Management System
2. Lease management system
3. Finance Management System
4. Inspect & Litigation System
5. Main Dashboard



DASHBOARD

MAIN

The dashboard will base on web so can easily be view on any system sample view will look like :



SETTINGS

Site Admin can able to update and change the setting for the system ie: Location name, permission extra

All rest role can't change any system properties with may change any data variable.

USERS AND GROUP

There are three type for role present in the system

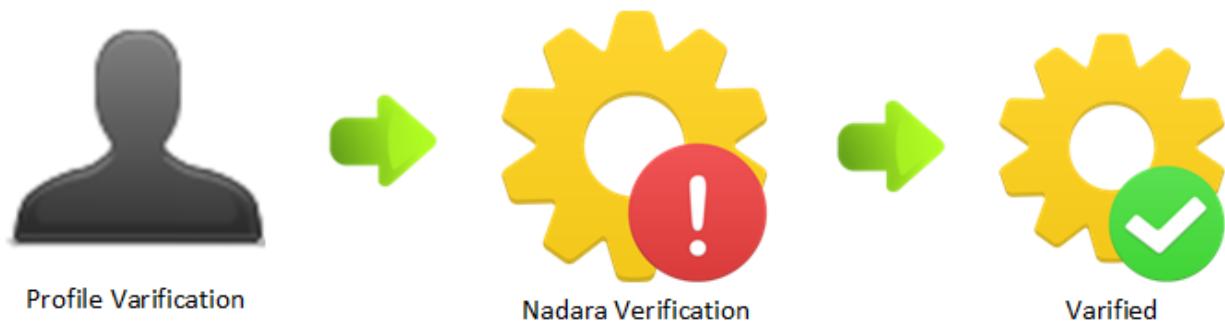
1. Administrator
2. Coordinator
3. Viewer

All system group carry individual role type

Module	Role	Type
RMS	Administrator	Non Critical
RMS	Coordinator	Non Critical
RMS	Viewer	Non Critical
FMS	Administrator	Non Critical
FMS	Coordinator	Non Critical
FMS	Viewer	Non Critical
LMS	Administrator	Non Critical
LMS	Coordinator	Non Critical
LMS	Viewer	Non Critical
ILMS	Administrator	Non Critical
ILMS	Coordinator	Non Critical
ILMS	Viewer	Non Critical
System	Administrator	Critical

PROFILE VERIFICATION

In system user can verify his personal data verification via NADRA. Once system verifies that will indicate on profile.



RAHDARI MANAGEMENT SYSTEM (RMS)

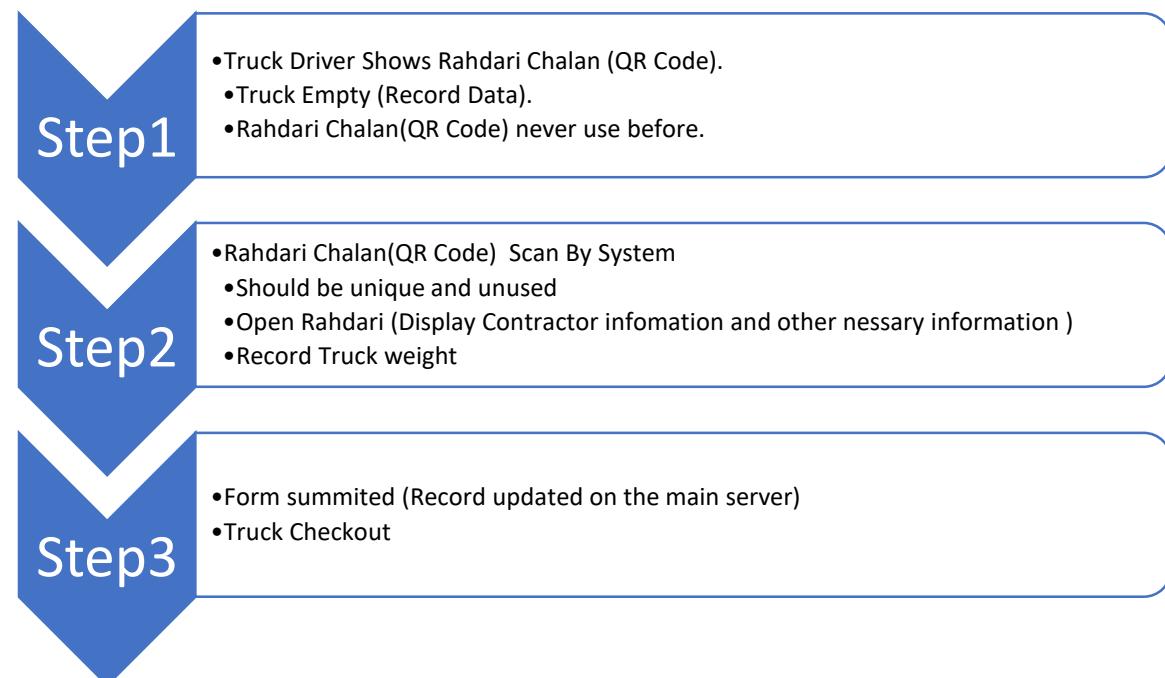
RAHDARI CHALLAN FORM

SCOPE

Rahdari Challan Management System would be web-based application, and could be accessible via internet. System is designed for issuance of Rahdaries to mine leaser. The Rahdaries / Challans would have QR code ID that would be scan-able mines check post.

In current process as mines owner get lease confirmation from mines committee, then needs to print rehdari books that contains of 50 receipts in each book.

STEPS



SYSTEM FLOW

Rahdari System Process flow



WORKFLOW

No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Rahdari Chalan QR Code Verification	Data entry	Driver display the Rahdari Chalan QR code and scan by the data entry person.	LMS
2	Form Open	Data entry	After QR code verification, this will open the form in the system.	LMS
3	Empty truck data	Data entry	Enter the actual data of weight of empty truck and others if necessary	
4	Full truck data	Data entry	Enter the actual data of weight of loaded truck	
5	Lock the code	System	When the data submitted it would automatically lock the QR Code.	

RMS REPORTING

DASHBOARD

A dashboard is going to monitor on daily activity that's include

Total Number Of vehicle processed

Total number of weight

Total number of weight / Mineral

Etc.

REPORT

General report [(Contractor) / Date]

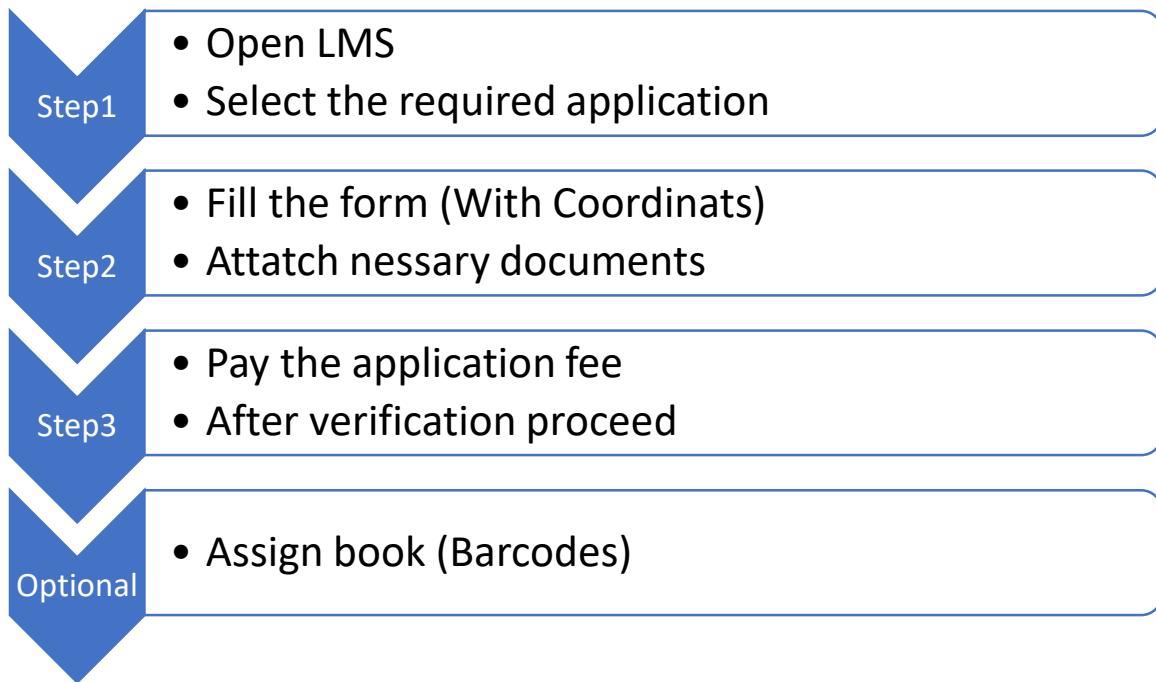
Quantity Report (Weight / Date)

LEASE MANAGEMENT SYSTEM FORM

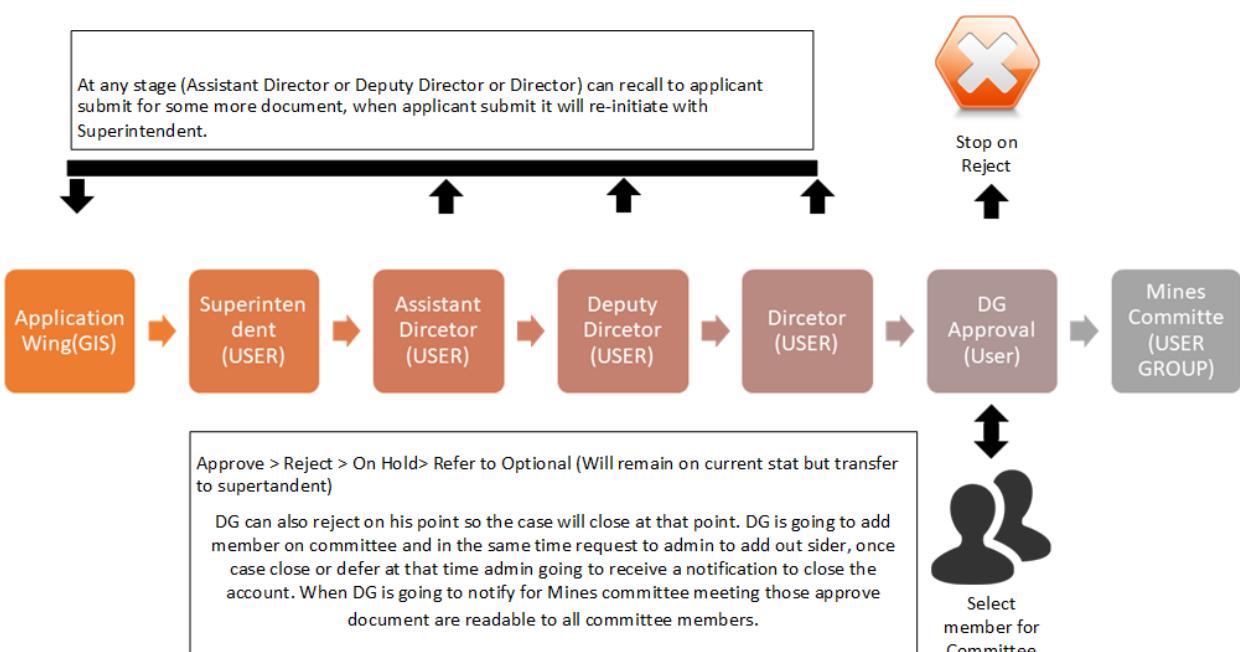
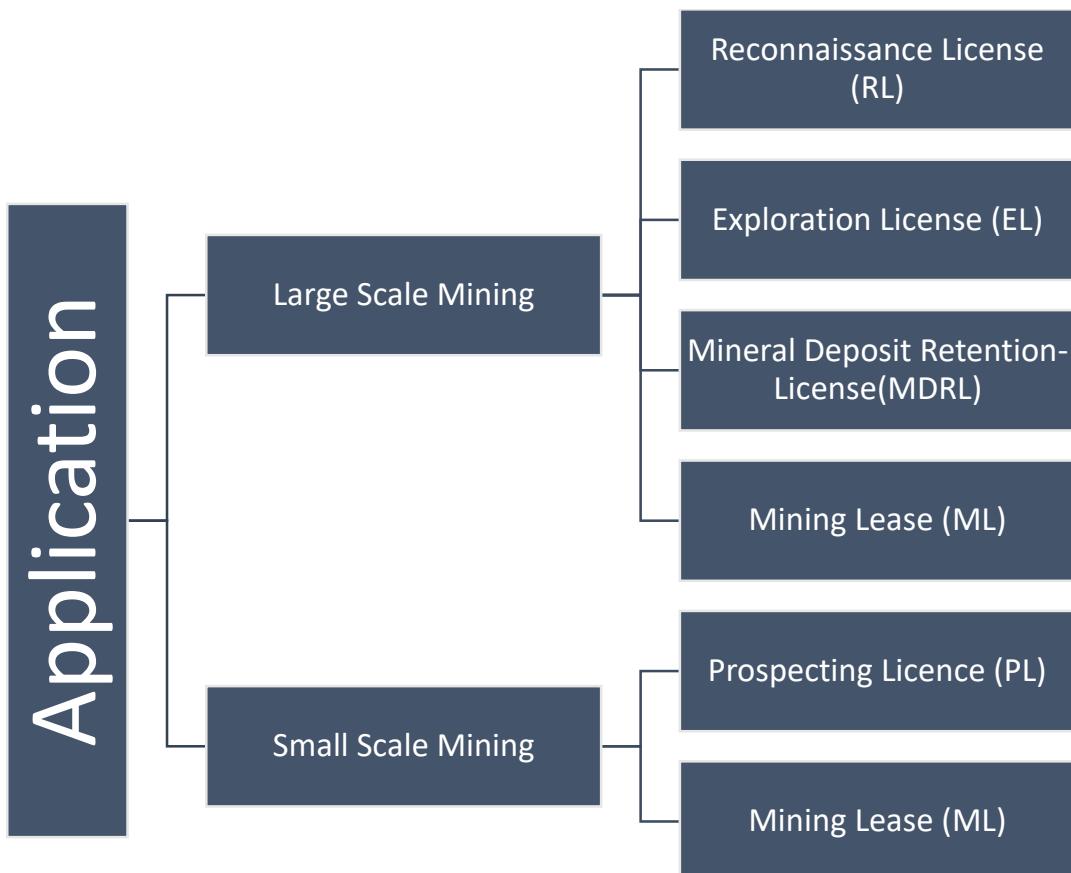
SCOPE

Build a paperless environment that fulfills the complete registration process without hassle. A system can accept e-payment via bank link and be able to generate the online book.

STEP

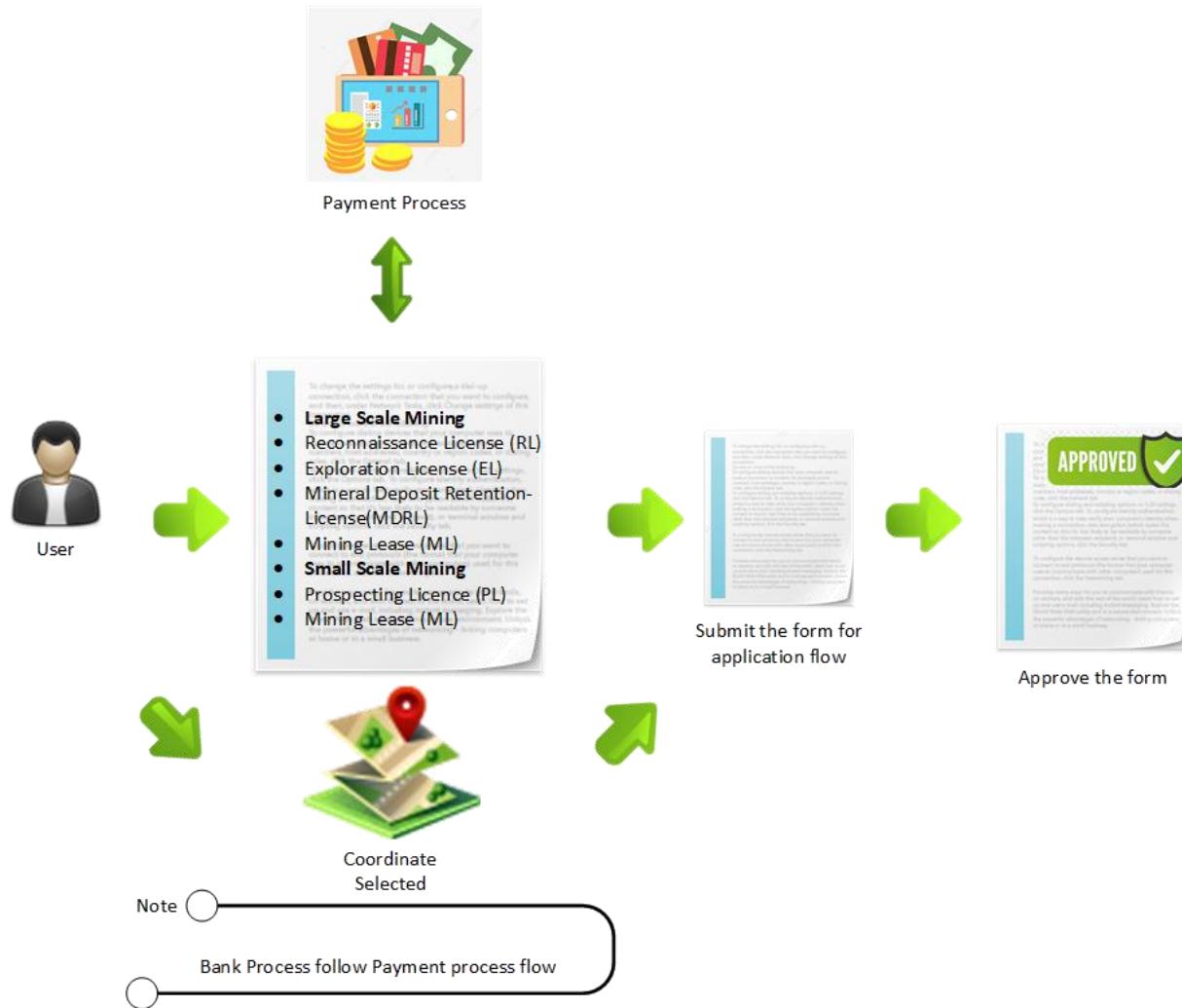


APPLICATION TYPE



SYSTEM FLOW

Lease Management System



WORKFLOW

No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Select the form	Lease Owner	There are number of different application that required some specific documents and fee.	
2	Fill the form	Lease Owner	Need to ensure all necessary field fulfilled.	
3	Payment ID Generated	System	Payment active on customer account, now can login any pay the fee to proceed the rest processes.	

No.	Activities	Action by	Detail of activities and remarks	Ref.
4	Submit the form	Lease Owner	After payment, submit the form.	
5	Quick action	System	Some form automatically submit after payment.	

LMS REPORTING

DASHBOARD

A dashboard is going to monitor on daily activity that's include

Total Number of Form in processed

Total number of Approved

Total number of Pending dues

Etc.

Need to be finalize.

REPORT

General report

Quantity Report

Need to be finalize.

Finance Management system would be developed to keep the financial records of all lease/license holders. It will be connected to the national Bank(s), so that payments may be made online. The system will be integrated to the LSM and the rahaadari challan & management system

PAYMENT PROCESS

SUMMERY

The payment flow is based on two different processes. the first process is if the payer wants to pay partial payment he needs approval from the DG side so he will submit the request that needs to be approved by DG then he will pay. Second, the payer wants to play the whole amount so just pay to fulfill the process.

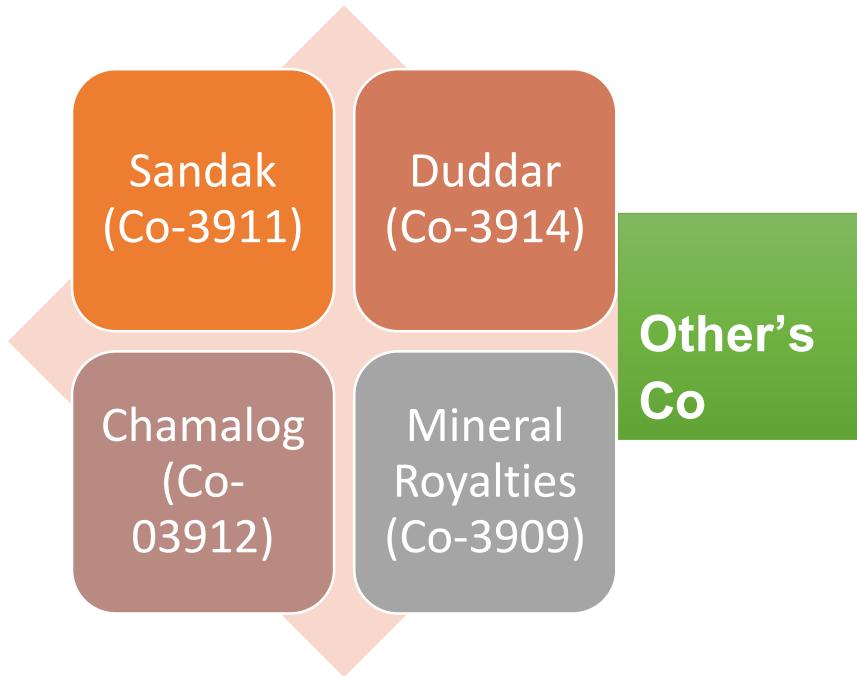
PAYMENT FLOW

Payment Process flow



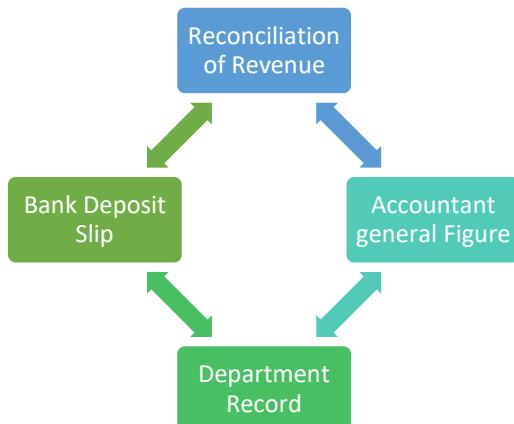
ACCOUNTS HEAD

Mines & Mineral department collects all types of above illustrated fees through NBP green challan, main heads of accounts are:



TREASURY ACCOUNTS RECONCILIATION

After the amount deposits in govt treasury accounts then national bank generate account scroll, so finance dept can track through payment receipts. In reconciliation fin dept receipts should be equal to bank closing balance, reconciliation process flow are as :



WORKFLOW

No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Select the form	Lease Owner	Select the payment reference.	
2	Special request	Lease Owner	For partial payment apply for DG Approval	
3	e-Pay	Lease Owner	When the price value set, pay it.	
4	Request	System	Approval request send to DG.	
5	Approval	DG Login	DG will receive approval request that need to Accept or Reject.	
6	Rejection	System	System will notify.	
7	Pending	System	Pending request will display on Dashboard	

FEE COLLECTION FORM

SCOPE

To collect the Fee and to keep the financial records of all collection. It will be connected to the national Bank(s), so that payments may be made online.

STEP

Step1

- Log in the system
- Select Fee payment

Step2

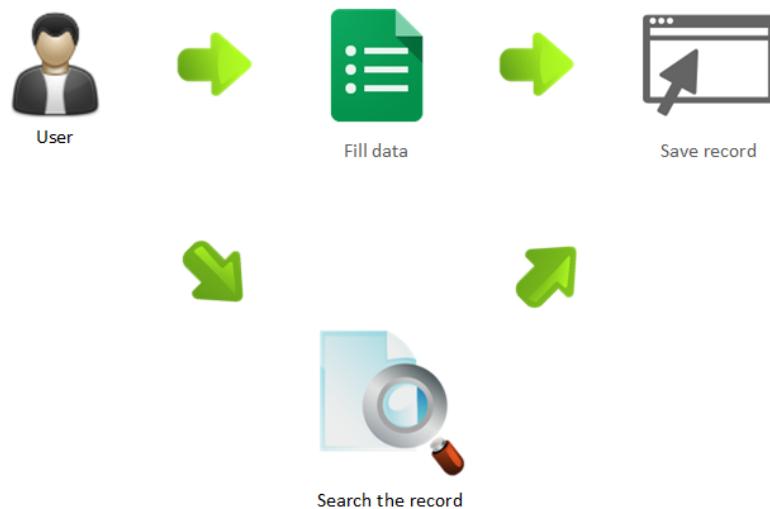
- Fill the nessary data
- Proceed to pay

Step3

- Enter your Card information
- User will see the sucessfull notification

SYSTEM FLOW

Fee Collection Process flow



WORKFLOW

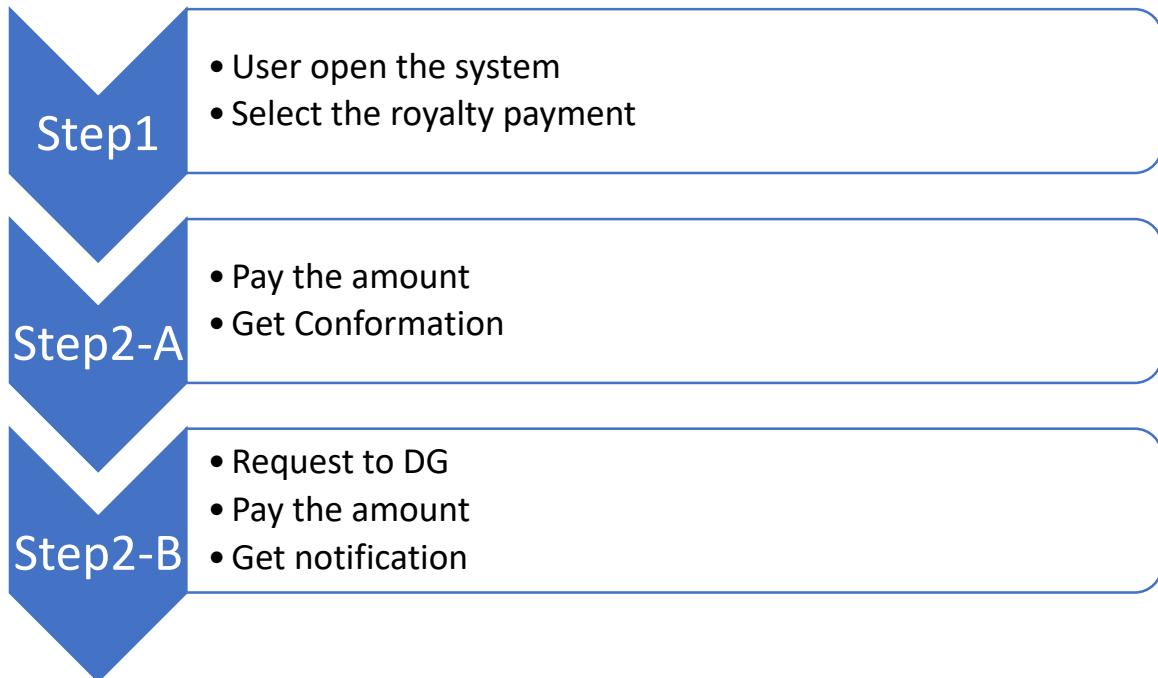
No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Login the system	User	Login the system by provided credential	
2	Select the form	User	Select the payment form you need to proceed	
3	Payment	User	Pay via using your debit or credit card	
4	Acknowledgement	System	Generate a reference of payment	
5	Notification	System	System display the notification	

ROYALTY COLLECTION FORM

SCOPE

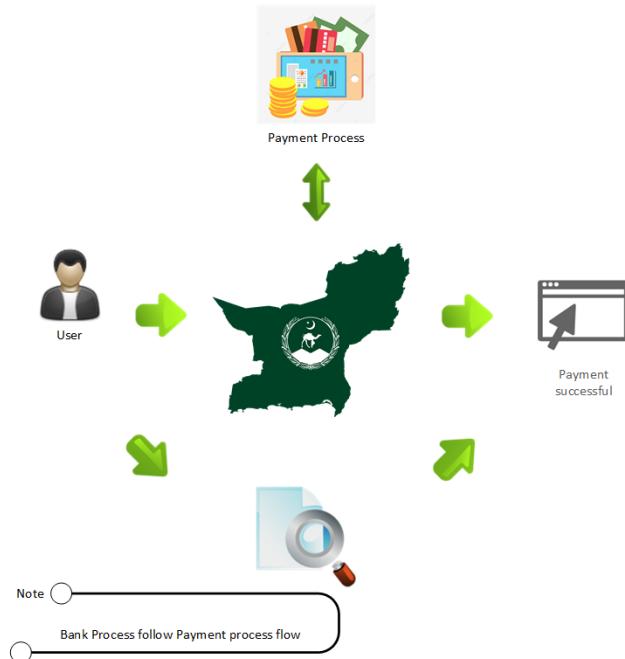
There are different type royalty that need to be collect from the system, those royalty can track from the system and able to monitor the track.

STEP



SYSTEM FLOW

Royalty payment Process flow



WORKFLOW

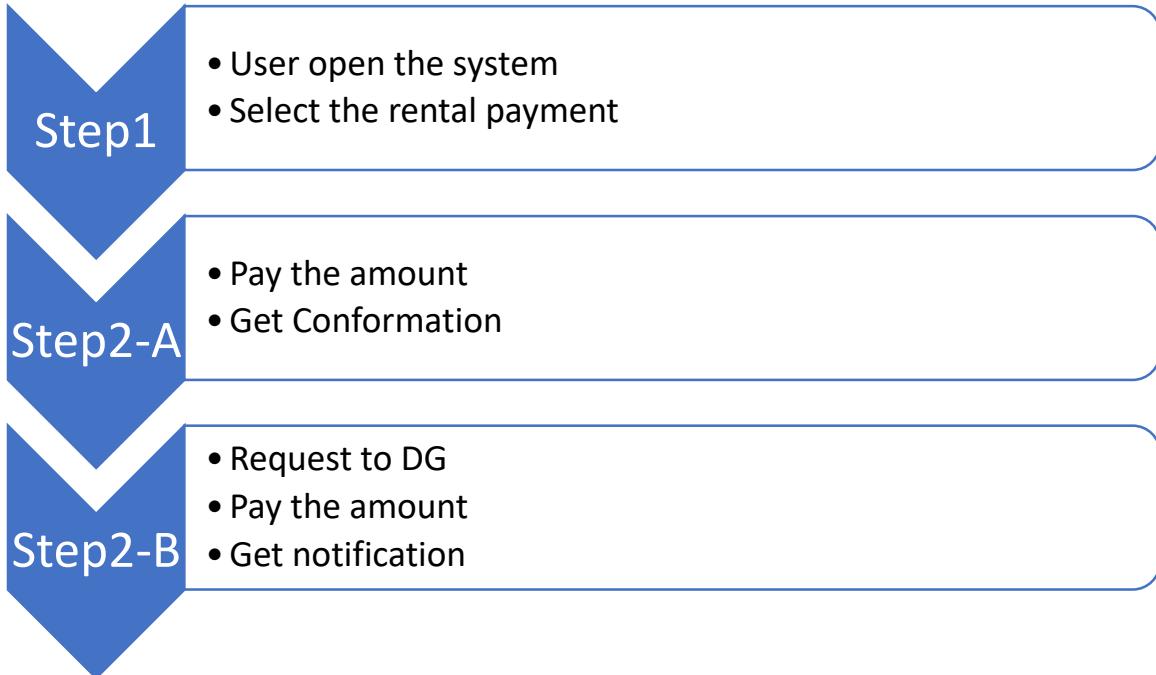
No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Login the system	User	Login the system by provided credential	
2	Select Royalty payment	User	Click on Royalty payment	
3	Select the Accounts	User	Select the account need to pay	
4	Request to DG	User	If user need to change the payment	
5	Payment Decision	System	DG will approve or reject	
6	Pay Amount	User	User will pay the amount	
7	Reference	System	Will generate the reference code	

MINING AREA RENTAL COLLECTION FORM

SCOPE

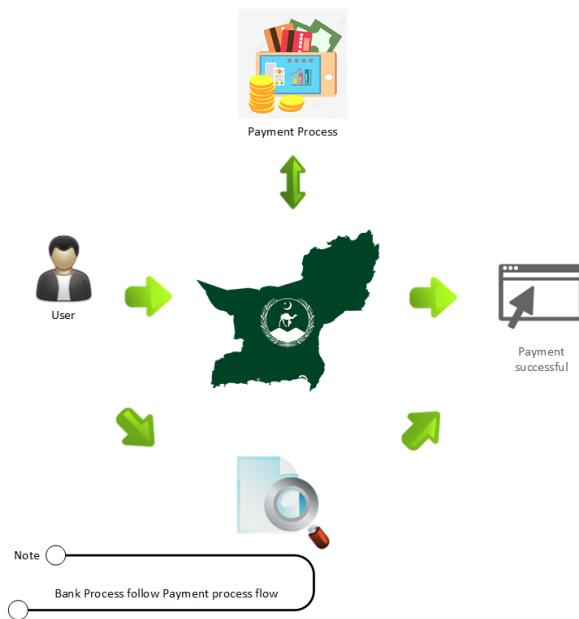
Each mining area is rented for some specific amount of time, when the rent will be due it needs to be re-rented, this area of system is built for collecting rent amount and tracking the deadline.

STEP



SYSTEM FLOW

Rental collection payment flow



WORKFLOW

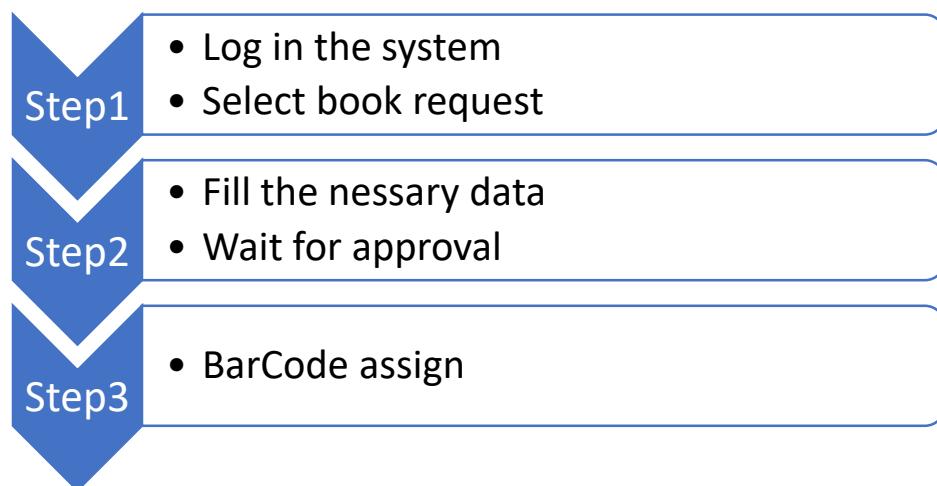
No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Login the system	User	Login the system by provided credential	
2	Select Rental payment	User	Click on Rental payment	
3	Select the Account	User	Select the account need to pay	
4	Request to DG	User	If user need to change the payment	
5	Payment Decision	System	DG will approve or reject	
6	Pay Amount	User	User will pay the amount	
7	Reference	System	Will generate the reference code	

REHDARI BOOK COLLECTION FORM

SCOPE

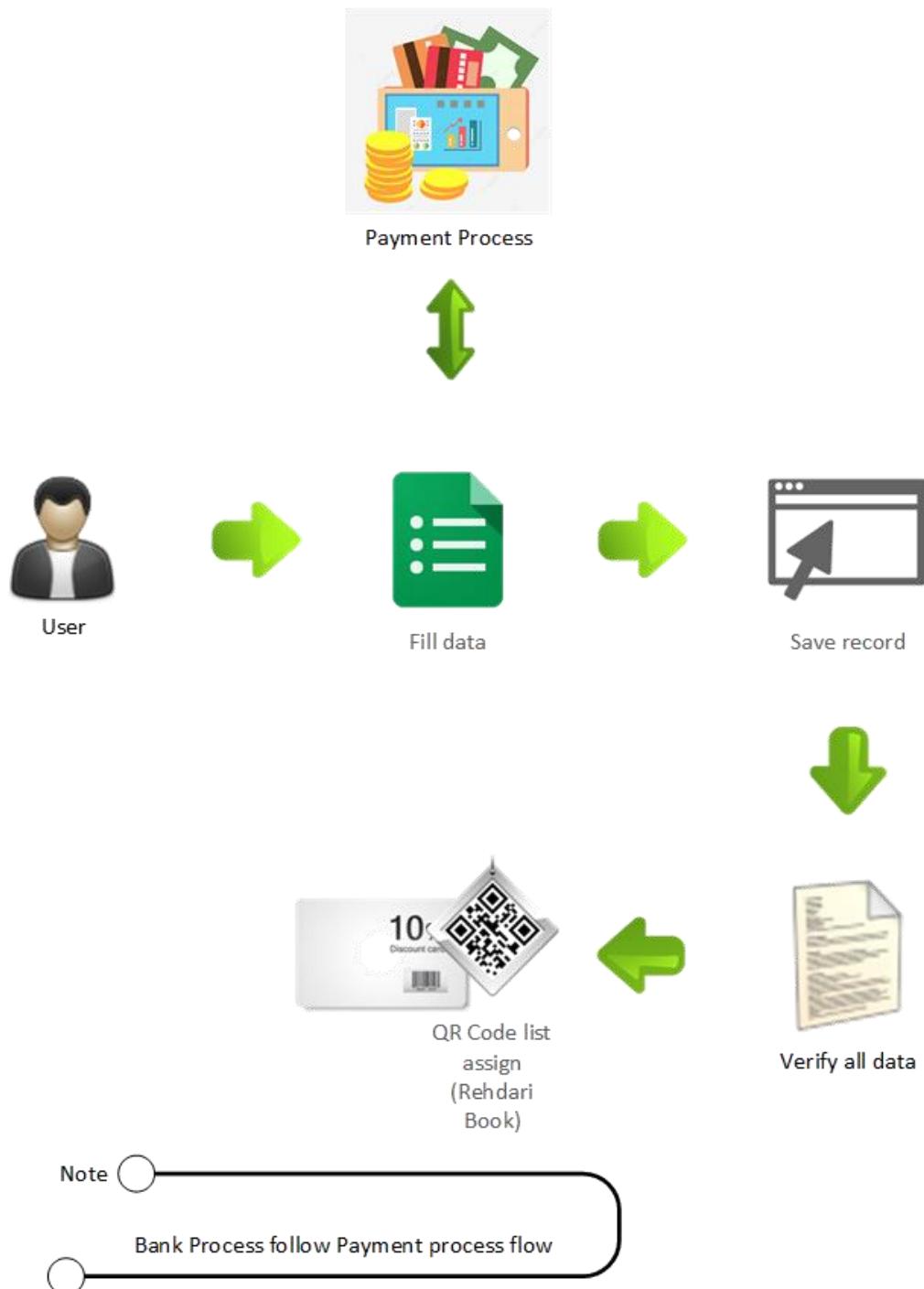
The main purpose of this module is to generate the request of Rehdari book and it will incorporate all approval process.

STEP



SYSTEM FLOW

Rehdari book Process flow



WORKFLOW

No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Login the system	User	Login the system by provided credential	
2	Select Book Request	User	Click on Book request	
3	Select the Account	User	Select the account for the request	
4	Submit	User	Submit request for verification	
5	Verification	System	Approval	
6	Barcode Assign	User	User can print the all barcode and distribute to the drivers	

FMS REPORTING

DASHBOARD

Recovery

Need to be finalize.

REPORT

Recovery

Need to be finalize.

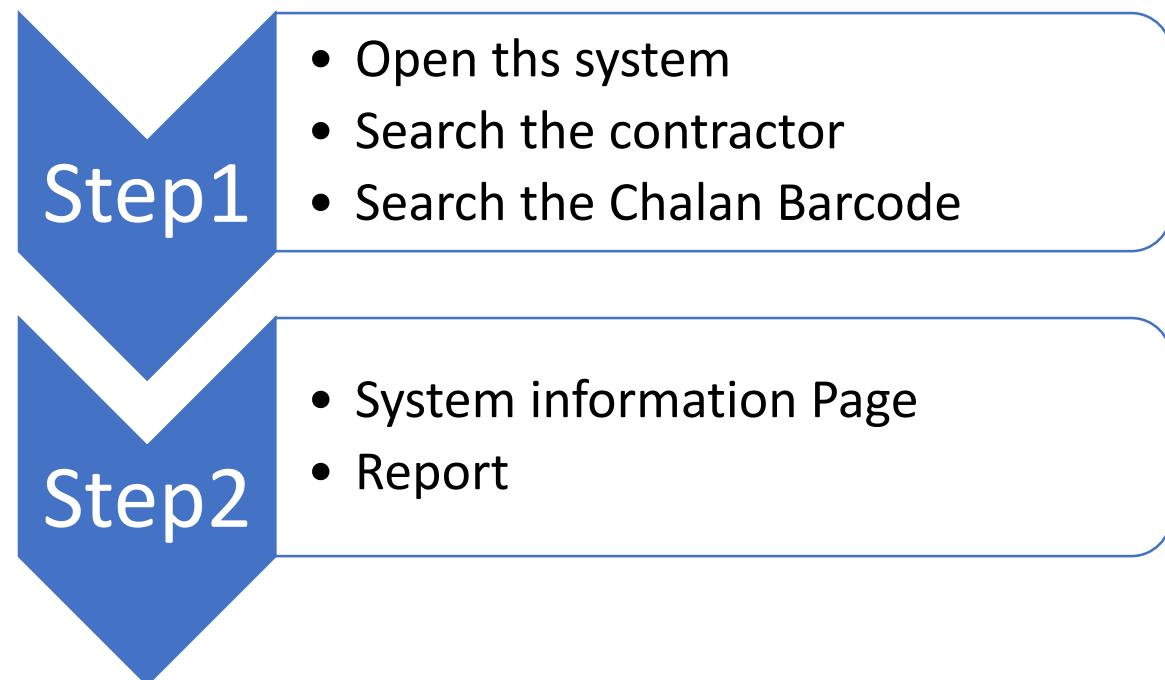
INSPECTION FORM

SCOPE

This module will perform two main processes.

- This system will contain mining site / Lease Owner information that can easily be extracted.
- This system will also inspect the truck via Chalan barcode that the mineral data updated or not with Lease Owner information.

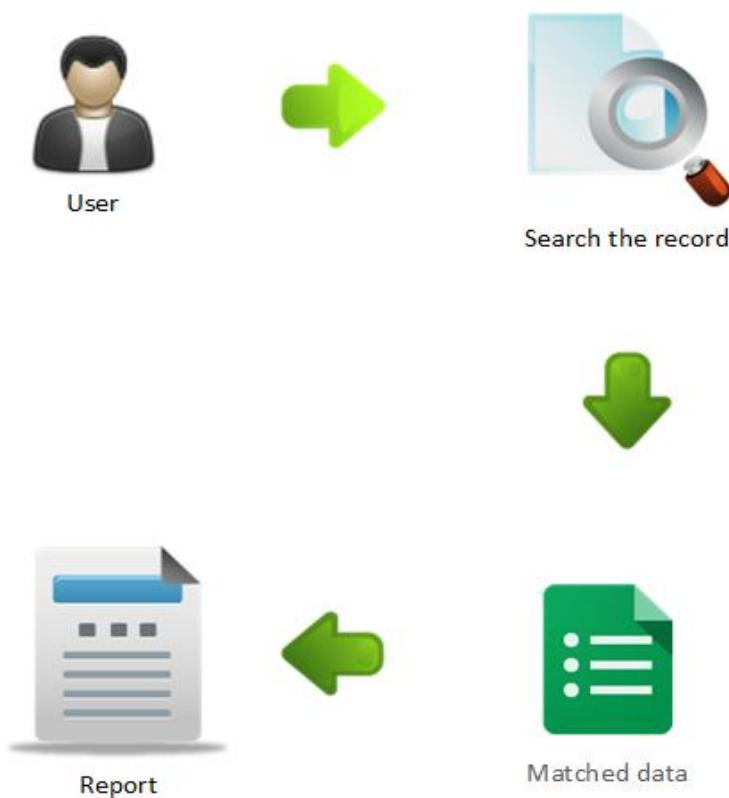
STEPS



SYSTEM FLOW

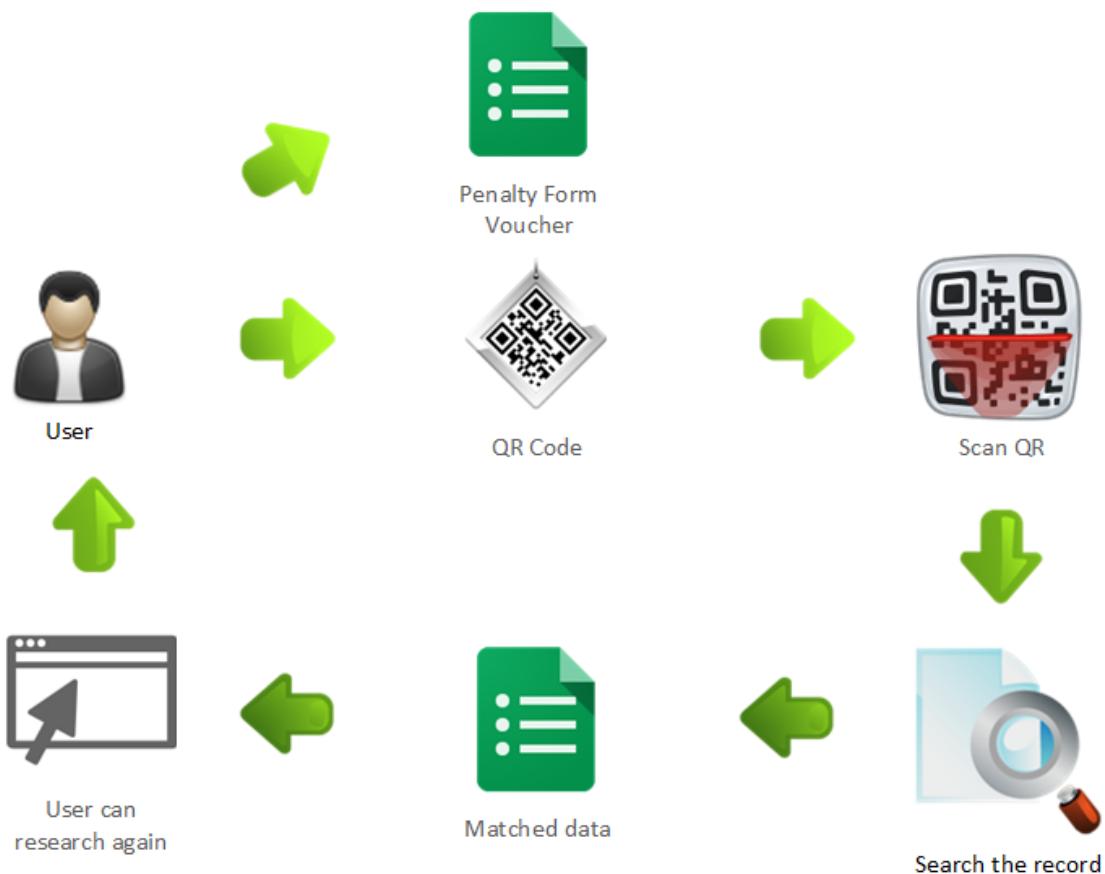
On site Inspection System

Process flow



On root Inspection System

Process flow



WORKFLOW

No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Login the system	User	Login the system by provided credential	
2	Select the Inspection	User	Click on Search box	RMS

3	Scan	User	Scan the barcode	
5	System inspect	System	System will inspect the data and display the result	

No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Login the system	User	Login the system by provided credential	
2	Select the Inspection	User	Click on Search box	LMS
3	Search	User	Search the Lease Owner	
5	System inspect	System	System will inspect the data and display the report.	

LITIGATION FORM

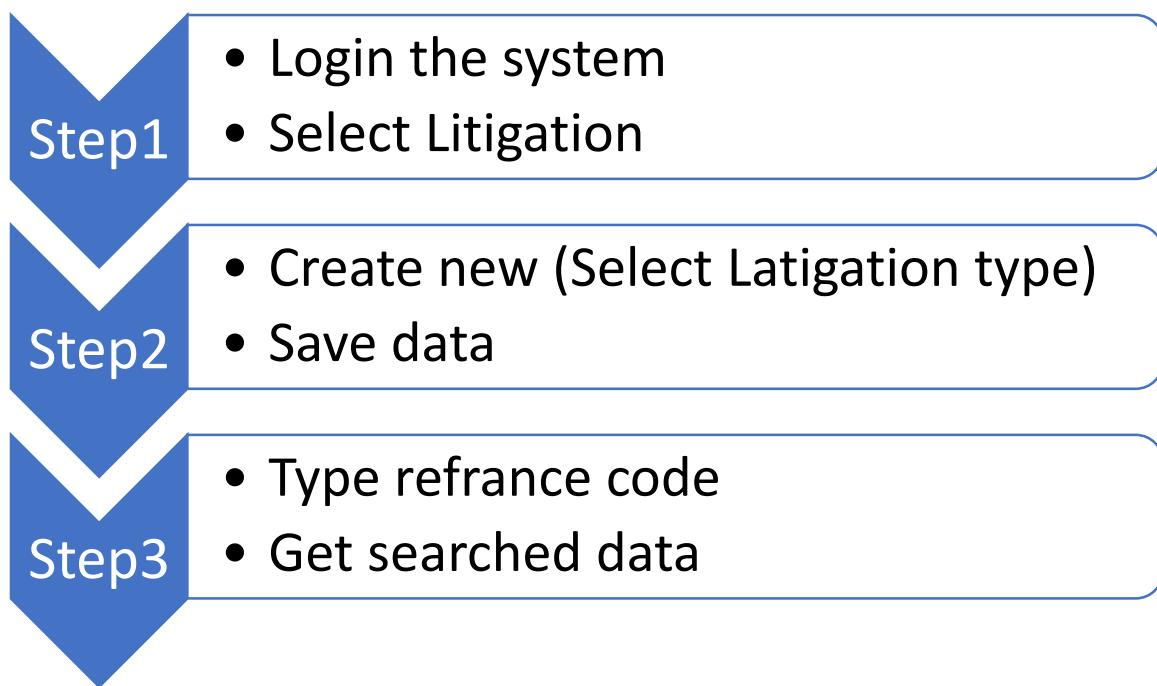
SCOPE

The module is design to automate mining litigation process and contain following forms

- Dispute Application
- Appeal fee
- Notice to Parties for hearing schedule (e.g plaintiff /defenders)
- Update Order Sheet
- Final Order

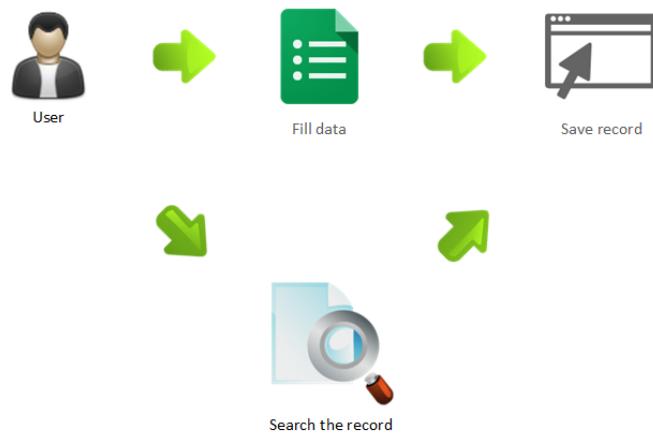
The data use for logging purposes and can provide digital representation based on condition.

STEPS



SYSTEM FLOW

Litigation System Process flow



WORKFLOW

No.	Activities	Action by	Detail of activities and remarks	Ref.
1	Login the system	User	Login the system by provided credential	
2	Select Litigation	User	Click on Litigation (Select the form)	
3	Form	User	Fill the form	
4	Submit	System	Submit to the system	
5	Search	User	Can able to search the Litigation	

ILMS REPORTING

DASHBOARD

Need to be finalize.

REPORT

Need to be finalize.

TURNING CONCEPTS INTO REALITY



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