



Government of Andhra Pradesh

Andhra Pradesh Central Funds Portal



Ministry/Organization Name : Government of Andhra Pradesh

Problem Statement : We are looking for a single point securely hosted software solution to seamlessly integrate disbursement of funds and related communication from both the Center and State w.r.t. Central Schemes for each of the Department. Solution should

- (1) To provide facility to automatically inform disbursement of funds to respective State Department for specific scheme**
- (2) Allow communication between officials of Centre and State for specific scheme of department**
- (3) Facility to add/modify Schemes etc.**

Team Name : Lost-1+3

Team Leader Name : Ojaswa Sharma

Institute Name : Indian Institute of Information Technology, Gwalior (U-267)

Abstract

In the present time there is a lack of a platform that can unify the transaction data of all the schemes and the communication between departments (state and center) concerned with various government schemes and initiatives.

The idea here is to develop a progressive web application (Unified platform for Web and Mobile) that provides a one stop solution to the tracking of funds and communication between the authorities of various departments.

The implementation would contain different schemes that are active at that time and each scheme would in turn consist of all the members concerned with monitoring the funds of the scheme, the events that have taken place in that scheme as well as the communication between the centre and state regarding the scheme itself.

Product Features



#Secure

The product uses state of the art encryption system to encrypt all transactional and user details.



#Scheduled Tracking

Track all the transactions from the moment they are initiated till they reach their destination.



#Seamless Notifications

Be updated of each and every action with on-the-go notifications on the platforms of your choice.

Product Features



#Role Management

Easily manage all the stakeholders from basic login access to specific usage rights.



#Streamlined Communication

Interact with all the respective departments on-the-go for faster and smoother governance.



#Scalable Solution

Since the product is built with cutting-edge open source technology, it allows extensive expansion with super-low maintenance.

Idea & Approach

User Experience:

Using a prototype model and following high fidelity wireframes, the product is continuously tested against rigorous user experience and ultimately counters everyday experience problems and provide an elegant infrastructure.

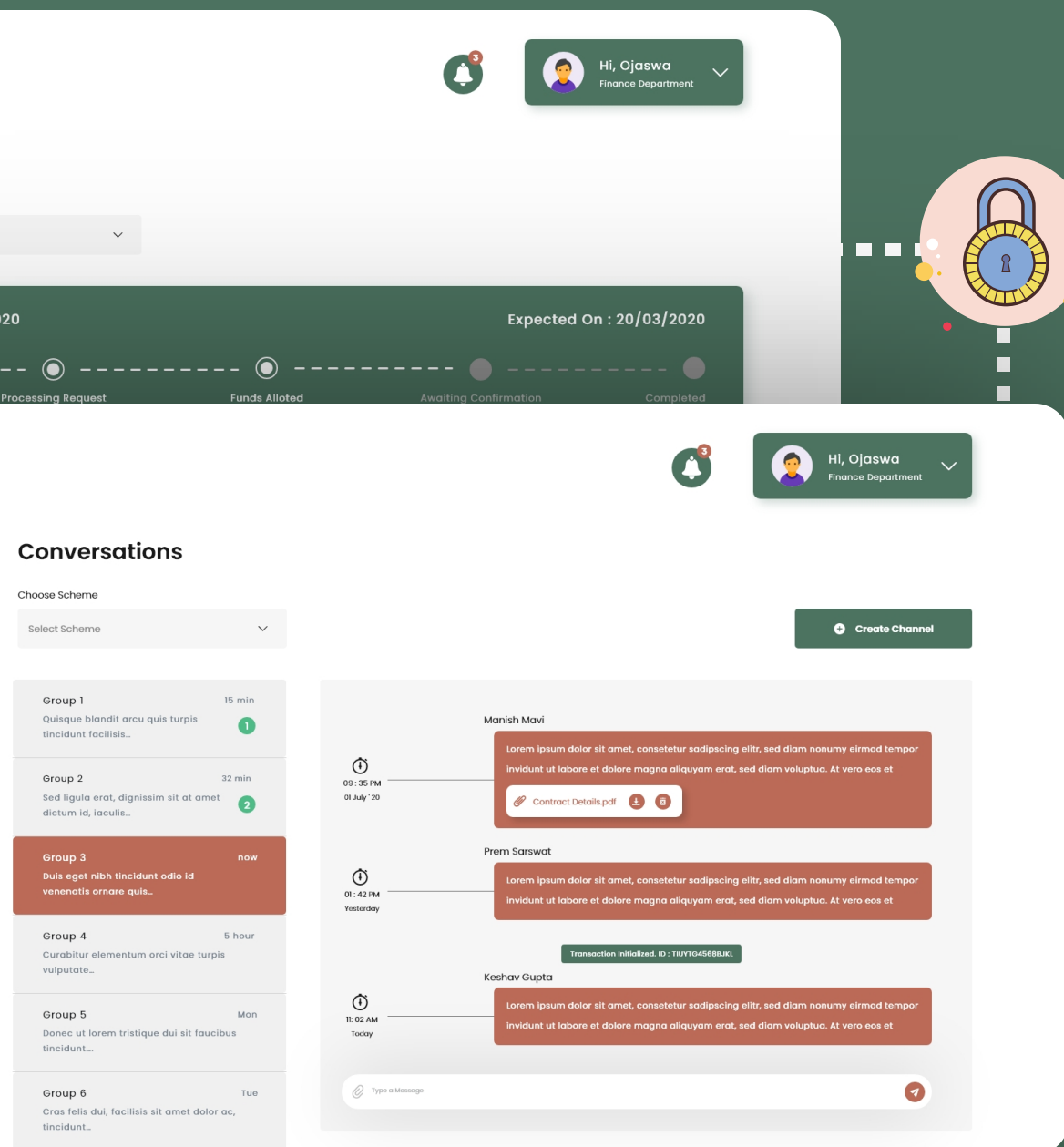
Security :

Since the software uses well established, open source frameworks, libraries and tools with active communities, the backbone code used is thoroughly audited and there are very miniscule chances of it having security bugs. We will also encrypt the communication channels provided between state and center, so no third party can eavesdrop on the communication. Furthermore, all the financial data will be stored after encryption in the database.

Traceability:

All the modification events are stored so it is possible to trackback to the past states of the scheme. Moreover all the transactions are stored so that the information can be accessed in the future.

Security & Privacy



- State of the art encryption techniques for storing transactional & financial data.
- End-to-End encrypted communication.
- Passwords hashed and stored using cutting-edge Blowfish Crypt
- Active measures against client & server side vulnerabilities
- Strict role based access

Role Management



- Entities : Officials of Central & State government.
- Centre : Administrators & Members
- State : Administrators & Members
- Role based access control
- Flexibility for custom role assignment

Notifications & Alerts



- On-Dashboard bell notifications.
- E-mails with reply features.
- Whatsapp notifications & support for other communication platforms
- Multi-platform alerts and reminders.

Adoptability & Impact



- Elegant interface and intuitive user experience.
- Multi platform compatibility
- Multi-platform notification and reminders
- Support for automated transactional workflow

Technology Stack



Client Side

- Platform : PWA (Progressive Web App)
- Technologies Used : ReactJS, GraphQL, Apollo



Server Side

- API : GraphQL on Node + Express Server
- Database : PostgreSQL
- Front End Served via NGINX
- Data Storage : Google Cloud Storage



Dev Ops

- Deployment : Google Cloud Platform
- Development : GitHub
- CI/CD : GitHub Actions
- Auto Scaling and Load Balancing : Kubernetes

VISIT PORTAL →

Features



Encrypted Data Flow

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Notifications on-the-go

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Seamless communication across channels

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Final Product

About Us Contact Us

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Schemes



Disbursal Status

Schemes

Conversations

Account Settings

Scheme Name : MNREGA

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Entity : Central Government

Sanctioned Amount : Rs.45,000 Crores

Chat

Know More

Scheme Name : Jhan Dhan Yojna

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Entity : Central Government

Sanctioned Amount : Rs.45,000 Crores

Chat

Know More

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Hi, Ojaswa
Finance Department

- Disbursal Status
- Schemes
- Conversations
- Account Settings

Conversations

Choose Scheme
Select Scheme

- Group 1
Quisque blandit arcu quis turpis
tincidunt facilisis... 15 min 1
- Group 2
Sed ligula erat, dignissim sit at amet
dictum id, iaculis... 32 min 2
- Group 3
Duis eget nibh tincidunt odio id
venenatis ornare quis... now
- Group 4
Curabitur elementum orci vitae turpis
vulputate... 5 hour
- Group 5
Donec ut lorem tristique dui sit faucibus
tincidunt... Mon
- Group 6
Cras felis dui, facilisis sit amet dolor ac,
tincidunt... Tue

FAQ

Hi, Ojaswa
Finance Department



- Disbursal Status
- Schemes
- Conversations
- Account Settings

Add Scheme

Scheme Name

Jhan Dhan Yojna

Sanctioned Amount

Jhan Dhan Yojna

Scheme Description

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Departments

- Finance
- Rural
- Farmers
- Students

Scheme Duration

Months Years

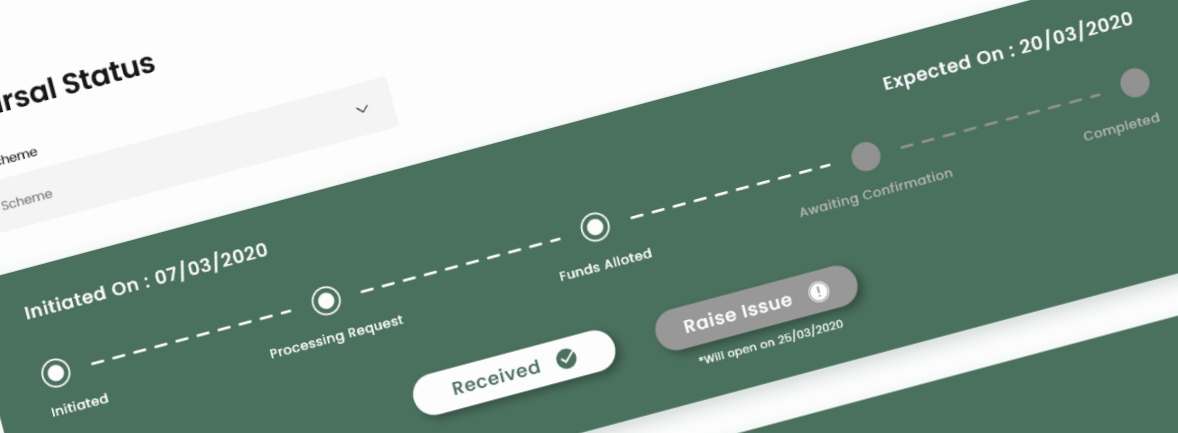
Cancel

Save

FAQ

Disbursal Status

Choose Scheme
Select Scheme



Transaction Amount (in Crores)

Received On
20/02/2020
18/01/2020

Thank You

Team name : Lost-1+3

