

Didgah Broadcasting System (DBS)

Introduction:

In response to the escalating poverty, corruption, and growing discontent within the Islamic Republic, a rising tide of unrest has become increasingly evident. The potential for widespread uprisings due to multifaceted socio-economic challenges looms large. The Iran Abad Party seeks to organize and guide these movements effectively.

Proposed System Overview:

The following system aims to swiftly provide crucial information to grassroots activists during periods of upheaval, offering them secure, streamlined tools. This system allows leaders and individuals on the streets to stay informed about gathering locations, changes, and necessary information, ensuring real-time communication. Furthermore, it facilitates the dissemination of revolutionary slogans and motivational messages during public gatherings.

Challenges During Protests:

During periods of protest, the government often disrupts internet connectivity, rendering platforms like WhatsApp, Telegram, Instagram, and Facebook inaccessible. This isolation hampers activists' ability to communicate and stay informed about events, leading to confusion and even endangering their safety.

System Design and Functionality:

This system is based on email communication and thrives even in scenarios of severely compromised internet speed. Public email services like Gmail, Yahoo, and Hotmail, despite being filtered by the authorities, serve as a resilient medium for our purpose due to their national-scale usage.

System Components:

Coding System:

All DBS system codes range between 10000 and 40000. If necessary, higher numbers can be employed.

- The first two digits are assigned to provinces.
- The third digit is for sending or receiving. Zero for sending and one for receiving.
- The last two digits are assigned to the cities inside the province.

Users:

The system comprises four primary categories of users: Reporters, Recipients, Admins, Super Admins.

Reporters:

Reporters, who are activists and informed individuals who want to send information via email. They need to include specific codes in the subject line of the email and use the body of the email for the news.

- Find the two-digit code for the province, and two-digit code for the city to broadcast news.
- Insert the digit zero in middle of the codes for province and city and use it as the subject of the email.
- Use the body of the email for the news.
- Send the email to DBS System.

Recipients:

Recipients, including local organizers and concerned citizens, who seek information during protests. They need to include specific codes in the subject of the email

- Find the two-digit code for the province, and two-digit code for the city to broadcast news.
- Insert the digit one in middle of the codes for province and city and use it as the subject of the email.
- Send the message to DBS.

DBS Admin:

- The system analyzes the subject code and if it is zero directs the email DBS Admin.
- Admin verifies the news, edits the content if necessary.
- Change the third digit in the subject line to number two.
- Sends the email back to the DBS system.

DBS System:

DBS system is Batch process running 24x7. The system receives email from Reporters, R Recipients, and Admin.

When DBS revises an email, first check if the email is from Reporters or Recipients from DBS Admin by checking the third digit of the subject line.

- Reporters email is forwarded to DBS Admin.
- For Recipients
 - Retrieve all the related news for the city using the first and last two digits in the subject of the email.
 - Send the email back to the Recipients
- If the email is from the admin save it in database for the related city.

DBS Web Application:

DBS System is running on google cloud with REST-API interface. This interface is used by DBS Web Application with UI interface. Super Admins are using this interface to provide:

- Up-to date information to protester and activists in Iran.
- Organize protests.
- Broadcasting the news in social media, TV, Radio etc..

Benefits and Expandability:

This system is adaptable globally and boasts numerous advantages, including efficient data collection for future purposes. Should Google or other platforms block access, the system can easily shift to a new email address to ensure uninterrupted service. System can be adapted for recipients to ask for news in province or country level.

Required Hardware:

Users can use any device capable of sending or receiving emails.

Limitation:

All emails sending news are forwarded to super admins. This may cause problems if hackers send large number of emails with fake news to the system.

Conclusion:

By aligning with the Iran Abad Party's goals, this software system effectively addresses the challenges faced during protests, empowers activists with real-time information, and remains resilient in the face of internet disruptions. It's a versatile tool that can be expanded upon, guided by user feedback to ensure its continuous refinement and effectiveness.