



## RAYHAN AHMED RAKIB

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## Experience

### Senior Software Development & Information Technology Officer

Jul 2021 - Present

Democracy International Inc  
Gulshan, Dhaka 1212

#### Responsibilities:

- Develop & Maintain Web Application for Research, Monitoring & Evaluation team.
- Develop & Maintain Official website & portal of several stakeholders of DI.
- Manage servers for organization's administrative web applications.
- Maintain Finance & Accounting web application for operations team.
- Automate the deployment & backing up organization's portal databases.
- Provide Networking & IT supports to Program & Operations Team.
- Manage Software Developer for developing DI stakeholders and internal web applications.
- Manage Field office IT Operations, Yearly Budget, IT Devices, Software Services.
- Collaborate with Home Office (USA) IT team for maintain excellent service in field level offices.

### Software Developer (Intern)

Mar 2019- Jun

2019

BRAC IT Service Ltd.  
Gulshan, Dhaka 1212

#### Responsibilities:

- Trained in industrial software development lifecycle & maintain process.
- In depth experience working with object-oriented programming frameworks.
- Maintaining documentations on software.

## Skills & Expertise

#### Programming Languages:

- PHP
- Python
- JavaScript
- Java
- SQL

#### Frameworks:

- Laravel
- Django
- Vue
- React
- Tailwind
- Bootstrap
- Node

#### Tools & Technologies:

- Git
- Docker
- PHP-Unit
- Shell Script
- Chart.js
- Job que
- Automated Backup

#### Database:

- MySQL
- PostgreSQL

#### Operating System/Environment:

- Arch Linux (Primary)
- Ubuntu
- Windows

## Projects

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### Electoral Landscape Mapping

Electoral Landscape Mapping project has been proposed by Research team of Democracy International with the supervision of the Chief of Party. This project offers a fully interactive online map of Bangladesh projecting several electoral, public opinion survey and political violence data. All data has been processed by the Research Team & GIS team and converted to geospatial data that has been integrated to the cloud map platform. This map offers a smooth interactive experience and overview of the previous and current electoral and political scenario of Bangladesh based on plenty of data sets.

Key Features:

- Multi-Level role-based authentication system
- Interactive GIS map with self-developed platform.
- Easy user interface with map overview and data references.

#### Tech Stack

- Laravel 10
- Breeze
- Inertia.js
- React
- Leaflet.js
- Tailwind
- MySQL
- Docker

GitHub Repository:

<https://github.com/Raayhan/Electoral-Landscape-Mapping>

Live URL: <https://maps.dibangladesh.com>

(Please contact me for access)

### Telephone Survey System

Democracy International Survey System (DISS) is an online interactive telephone survey system that is used by the DI Research team to generate random telephone numbers and conduct telephone surveys with proper sampling, design questionnaires, and analyze and monitor real-time survey data.

Key Features:

- API-based authentication system for survey agents.
- Random mobile number generator using Ajax.
- Specific numbers generator from a given set of numbers.
- Track each call with proper status.
- No scope for conducting false calls.
- Track agent's activities.
- Track survey progress.

#### Tech Stack

- Laravel 10
- Vite.js
- Inertia.js
- Vue 3
- MySQL
- Tailwind CSS
- Docker

GitHub Repository:

<https://github.com/Raayhan/DI-Survey-System>

Live URL: <https://survey.dibangladesh.com/>

(Please contact me for access)

### Participant Database

A web portal to maintain Democracy International's all event activity and participants information into the cloud database so that it can be used for research, monitoring & analysis. This portal has currently

stored more than 1 lac participants data. Data can be filtered by several criteria including date interval, region, district, party, gender etc. and, can be exported as Excel, PDF, CSV files.

Key Features:

- 3 Level Approval System
- Role Based Authentication System
- Generate Report as Excel
- Filter data with query builder
- Data charts in dashboard

#### Tech Stack

- Laravel 10
- Sanctum
- Inertia.js
- Vue 3
- Vite.js
- Chart.js
- MySQL
- Docker

GitHub Repository:

<https://github.com/Raayhan/DI-Participant-Database>

Live URL: <https://participants.dibangladesh.com>  
(Please contact me for access)

### Administration Information System

A management information system that includes all staff information, recruitment process, salary, documents etc. It also has the system to store update all the DI assets identified by unique tracking number. This platform mainly used by the HR & Logistics team however logistics team is not allowed to manage, view employee information they only allowed to work on asset management. There are search option using ajax where anyone can instantly search for an asset by tracking number. Employees data and Assets data can be exported as report by generating custom report with specified fields of data into excel format.

Key Features:

- Role Based Authentication System
- Ajax Search
- Generate excel report with custom columns.

#### Tech Stack

- Laravel 10
- Sanctum
- Inertia.js
- Vue 3
- Vite.js
- MySQL
- Docker

GitHub Repository:

<https://github.com/Raayhan/DI-EIS>

Live URL: <https://participants.dibangladesh.com>  
(Please contact me for access)

### Violence Incident Monitoring System

A web application to store data about all political violence that occurs with reference to the daily newspapers. This application is used by Research and Monitoring Team of DI to report to the USAID & UKAID. Incidents are being stored as objects. Incidents contains Reason, Victims, Perpetrators, Party, Date, and Gender Data. Data can be filtered according to the column and can be exported as excel and csv files. In the dashboard, an overview of the entire database is displayed mentioning the total number of incidents, number of injuries, number of fatalities, and number of males & females. Also, there are graphs displaying data based on Divisions of Bangladesh.

## Tech Stack

Backend: PHP  
Framework: Laravel 10, Inertia.js  
Frontend: Vue 3, Tailwind CSS, Vite  
Database: MySQL  
Others: chart.js, ApexCharts

GitHub Repository:  
<https://github.com/Raayhan/DI-VIMS>  
Live URL: <https://vims.dibangladesh.com>  
(Please contact me for access)

## Travel Calendar

As per DI Administration requirements staff travelling should be tracked by a unique tracking number. Therefore, DI Travel Calendar has been developed where users need to fill out a simple travel form which will automatically generate tracking numbers and sent to user's email using Laravel Notification. A calendar is also developed using Full Calendar API so that everyone can track who is traveling when & where in which purpose.

## Tech Stack

Backend: PHP  
Framework: Laravel 10, Inertia.js  
Frontend: Vue 3, Tailwind CSS, Vite.js  
Database: MySQL  
Others: Full Calendar API, Laravel Notification

GitHub Repository:  
<https://github.com/Raayhan/DI-Travel-Calendar.git>  
Live URL: <https://travel.dibangladesh.com>

## Digital Recruitment System

Political parties must go through a recruitment process to recruit members. Democracy International made this process much easier by developing digital member recruitment system. Users will be able to submit recruitment registration form to the system to join a political party. System admin will verify the information and ask the user for payments. User will be able to insert payment information to the system. After confirmation user will be recruited by the party. Users will be able to check their status of the application.

## Tech Stack

Backend: PHP  
Framework: Laravel-Jetstream, Livewire  
Frontend: Tailwind CSS, JavaScript.  
Database: MySQL

GitHub Repository:  
<https://github.com/Raayhan/Digital-Recruitment-System>  
Live URL: <https://recruitment.jcsbd.org/>  
(Please contact me for access)

## References

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|  |  |
|--|--|
| <b>Lesley Richards</b>   | <b>Golam Mostofa</b>   |
| Deputy Chief of Party (Supervisor)   | Senior Director, Research & MEL  |
| Democracy International Inc  | Democracy International Inc  |
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