GREEN TOUCH

Technologies

Techno-Commercial Offer

Data Analysis Web App

Submitted to

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Offer Information

220016 - 14/06/2022

❖ About Green Touch

Green Touch is a Jordanian company (L.L.C.), began its journey in 2011 as an active institute in the Jordanian market, worked on providing technical solutions for different entities operating in the region, from companies, organizations and governments of various types and sectors, as it has proven its ability to provide appropriate technical solutions to its' clients with the increasing big demands with a fully responsibility for their technical needs, and that through the technical solutions it provides which related to enhancing the aspect of productivity of the staff and the organization as a whole, and the aspect of security and protection for data, entire facilities and the organization as a whole, which contributes to the ability of these organizations to upgrade their work and increase the efficiency of their management, where Green Touch was able by years of hard work to gain large and diverse experiences and to put a strong and distinctive imprint on the market, which helped her to be at the forefront of technical companies at the local and the regional market levels.

Our Vision: A market in which companies focus their efforts on their core business and goals instead of wasting it on secondary functions that support them.

Our Mission: Helping companies upgrading their work and complete it efficiently through the appropriate technical solutions presented to them.

Our Message: We care about your workplace technical equipment, so you can be free to achieve your work with peace of mind.

❖ Proposed Solution

We take care of the "**Data Analysis Web App**" needs where the functionality of the system has to be developed in an appropriate way to fit the needs defined,

1. Develop a web app that uploads CSV file from the user of the app to be stored in the database and display them visually on the user interface.

2. Users can achieve their upload and processing with must-to credentials of username and password which will be provided to them manually from the admin of the web app.

3. The web app will be reached via either IP or domain.

❖ Technologies will be used

1. AWS as Infrastructure for the solution.

2. Cloudflare as the first layer of security.

3. Python and Django will be used as backend.

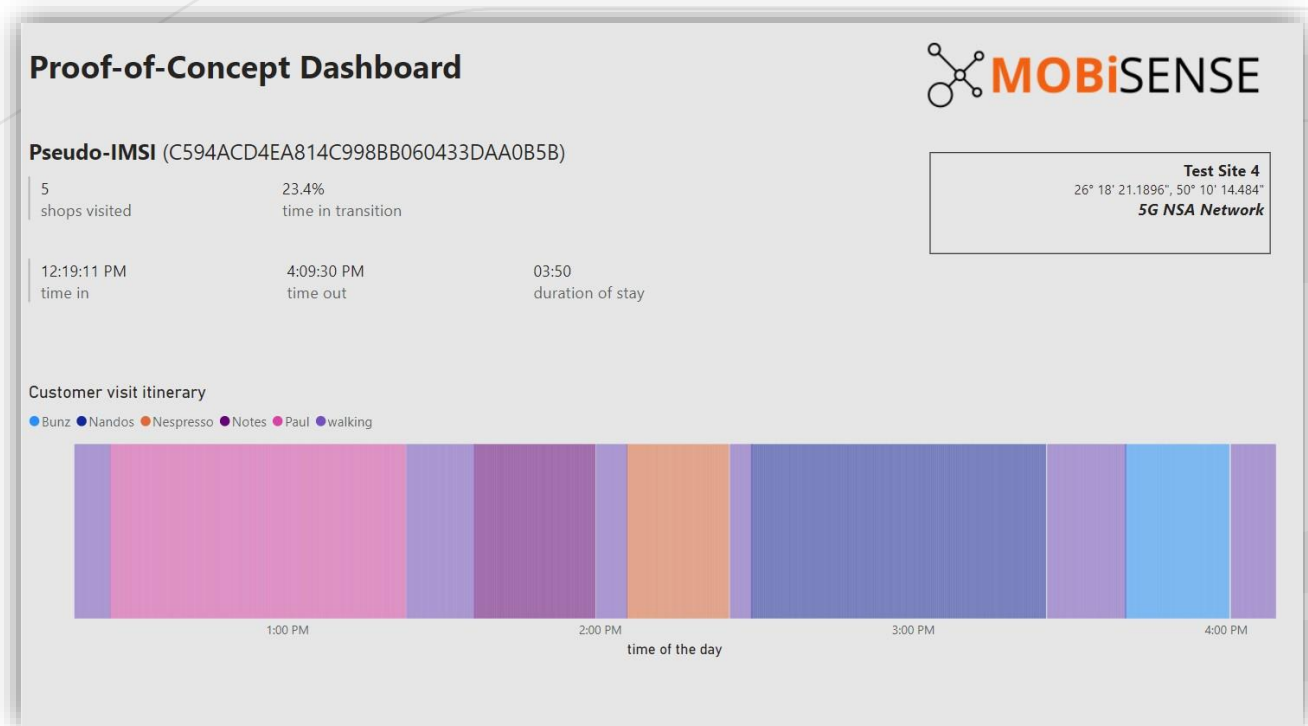4. React.JS will be used for the front-end.

❖ Proposed solution including

1. Analyze, design and develop the web app with functionality discussed and sent by pptx file.

2. Prepare AWS and Cloudflare with required services.

3. Maintenance and Bug-fix of the app for the first year.
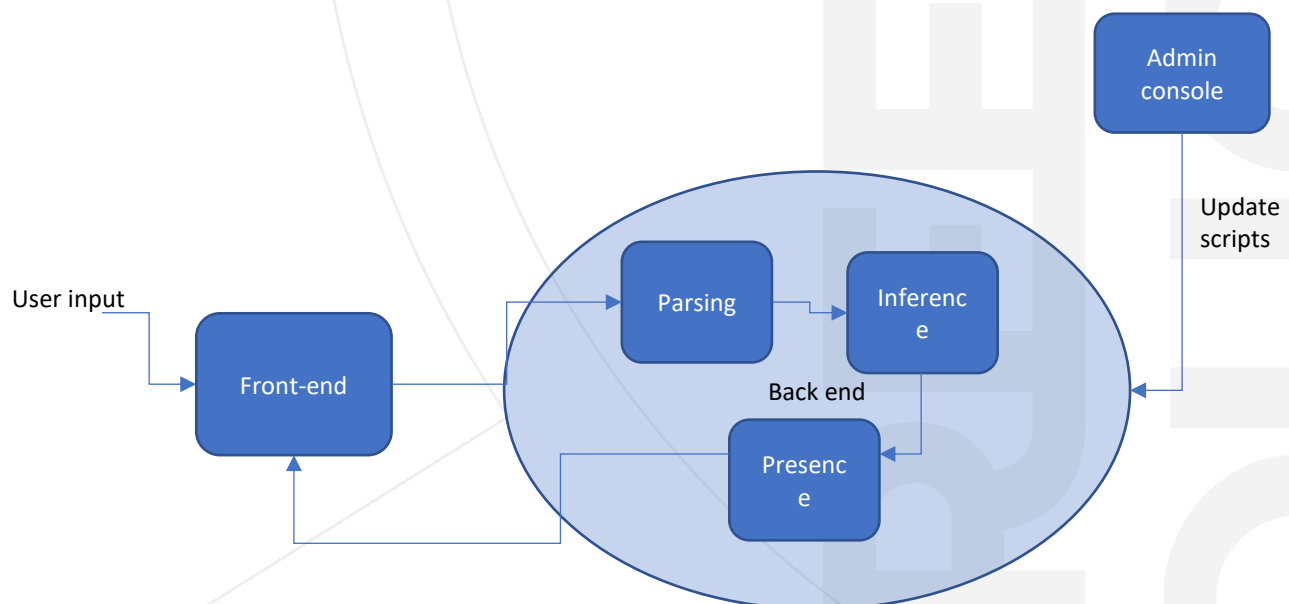
❖ Requirements included in the front-end

1. Accessible via public IP. Username and password protected.

2. Button to upload CSV files. Dumps CSV files onto backend.

3. Receives presence matrix (see example attached).

4. Visualizes data in presence matrix according to dashboard example shown below.

❖ Requirements included in the back-end

1. Preferably on AWS tools and platform for convenience.

2. Should provide space for the following placeholders:

3. A Python function that will parse the uploaded CSV files.

4. A Python function that will run a pre-trained machine inference model.

5. A Python function that will produce the presence CSV file.

6. The development of those Python functions does not fall within the scope of the contractor.

7. Workflow has to run in near-real-time, round trip time < 15 seconds.

❖ Proposed System Architecture

❖ Scalability Considerations

- **Storage:** each transaction is ~100 MB. We want to keep the data archived in the cloud. As the number of PoC demos and customer interactions grow, we foresee the need to scale the back-end storage capacity to the 10 - 100 GB range.

- **Functionality:** initially, CSV dumps will be uploaded manually. Moving forward, this will be replaced by an SSH connection to an FTP server or data warehouse, such that CSV dumps are fetched automatically.

- **Connections:** on the foreseen term, the number of connections is very modest, expected to be in the range of <10 per day even.

- **Compute:** the processing horsepower required per transaction is currently rated at 15% CPU utilization (i7 2.6 GHz) and 140 MB RAM for 5 - 7 seconds.

❖ Documentation of solution

1. Required at the end of the project.

2. Includes: file storage, packages used, maintenance, system info, access credentials, …

❖ Timeline of solution

3. The starting date will be 22 Nov. 2022.

4. The project duration is 3 weeks from the starting date.

❖ Cost of Proposed solution

1. Analyze, design, devlopment of the web app 1,500$.

2. Price excluding any services from 3rd parties such as AWS and Cloudflare or such.

3. Payment terms, 50% in advance and 50% when receive the solution.

4. Offer is valid for 20 days from the date above.

❖ Contact Person:

You can contact us by the following details :

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We hope our offer can meet your needs, thanks for your trust in Green Touch.