

Contracting company

By :

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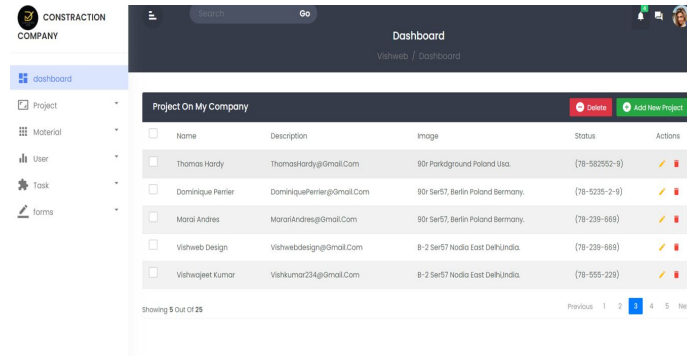
Introduction :

The main idea of our project is an application for contracting and real estate companies to help them manage and organize their business so that it becomes more smooth and easy. Also, the company can save the time, effort and money that it spends in order to organize this business. Matters related to workers, such as knowing the tasks assigned to them, and so on

Engineer Side(User)



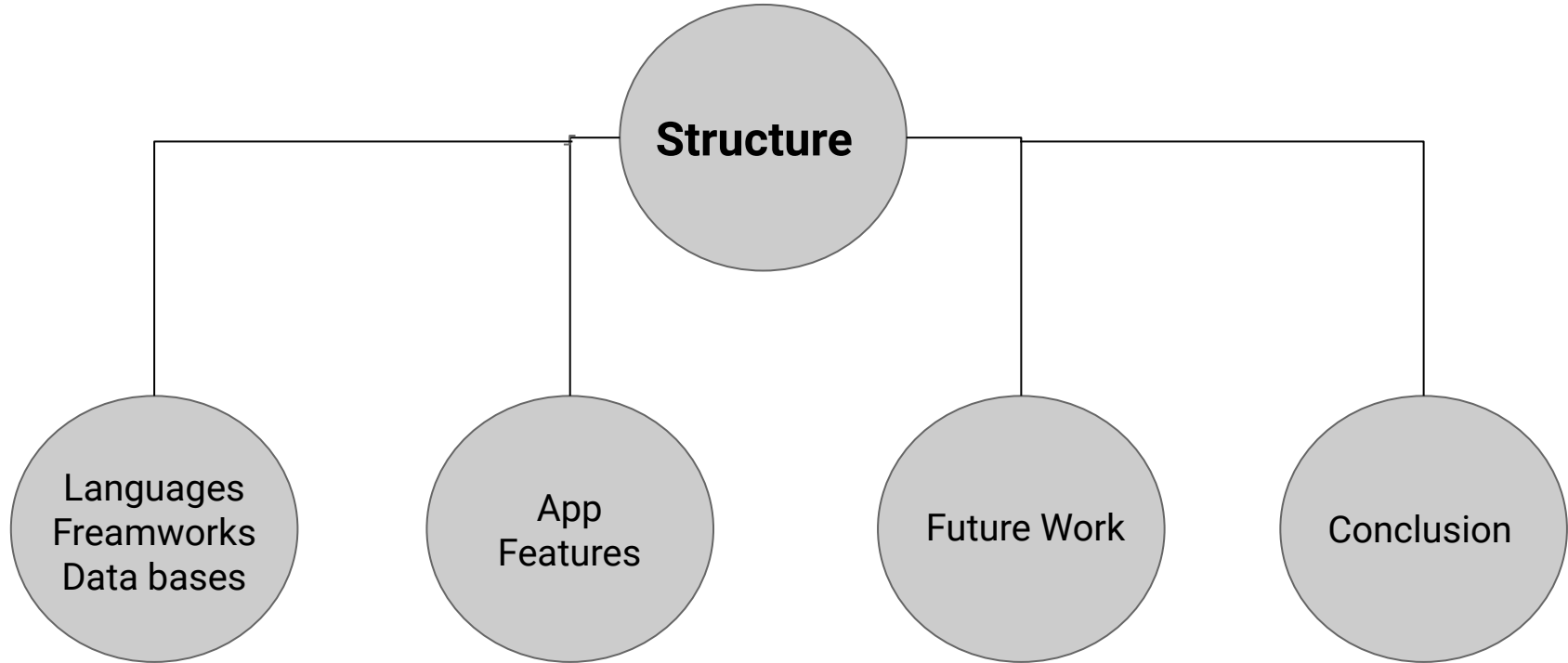
Admin Side



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Contents:



1- Tools and Technologies



Node.Js for backend

Flutter For Mobile App

Html, Css, Java Script for admin web

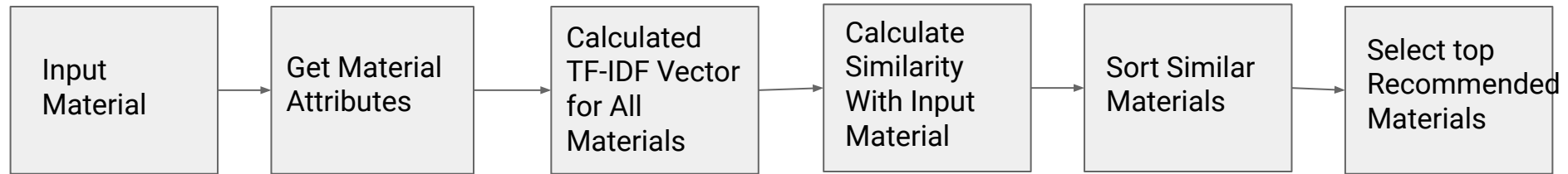
NoSql (Mongodb) for databases



2- App Features :

A- Recommendation for Material and Equipment:

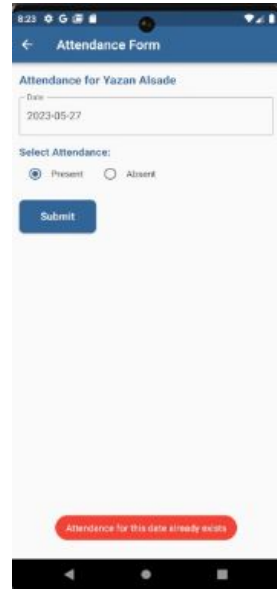
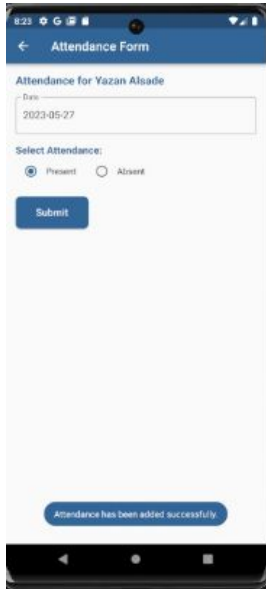
In this application, we have made a recommendation system for the materials and equipment. We have used collaborative filtering process using TF-IDF:



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B- Add Attendance For the Worker: Here the engineer enters the attendance and absence of the worker who chose him, depending on whether this worker came to work that day or did not come :

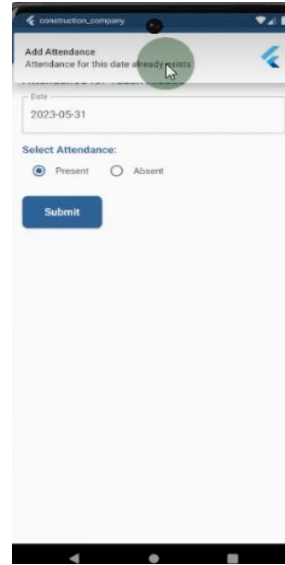
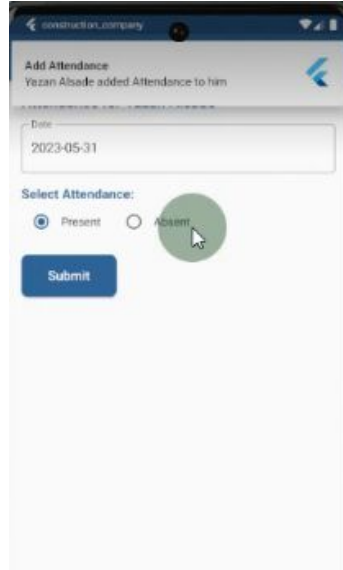


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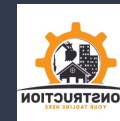


C- Notification System :

Notification systems are designed to let users know when something related to them occurs even if they don't use the application right then. The majority of users do not find it convenient to constantly check what is happening in an application. This makes it necessary to create a notification system to keep them connected to the outside world without having to exert so much effort. In our application and using flutter, Local Notification System was used to make notifications happen.

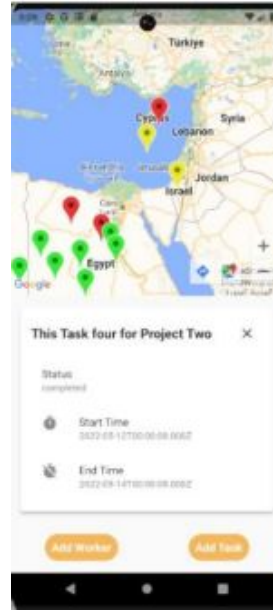
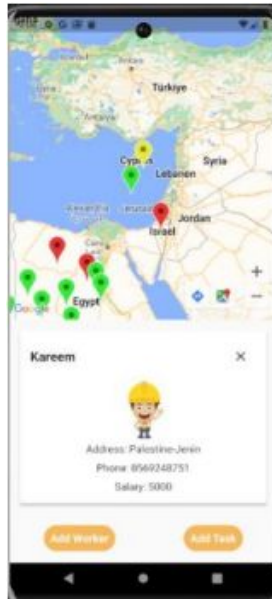


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D- Google Maps:

We used Google Maps in our application in order to locate the worker and also to locate the task of this worker, and thus the worker will be able to know the location of his task and go to it to complete it without referring to inquire about the location of the task that he will carry out:

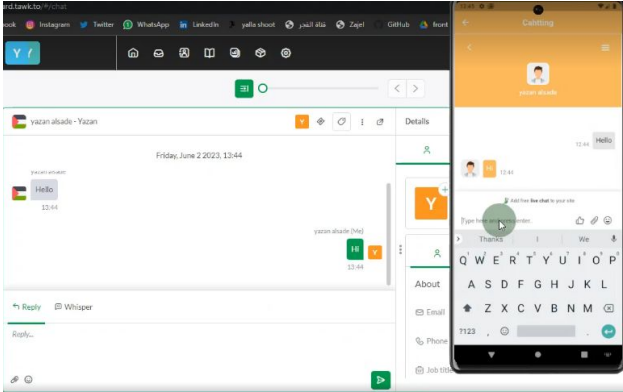
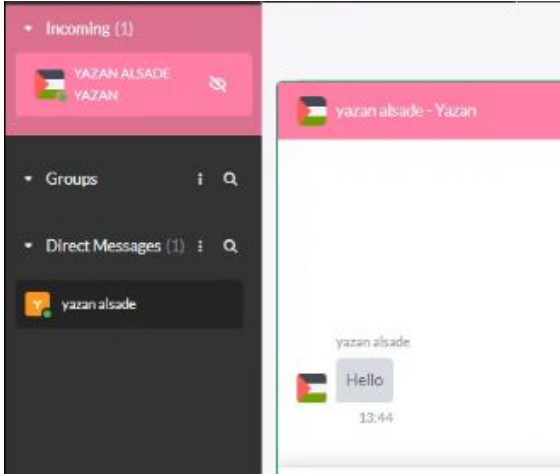
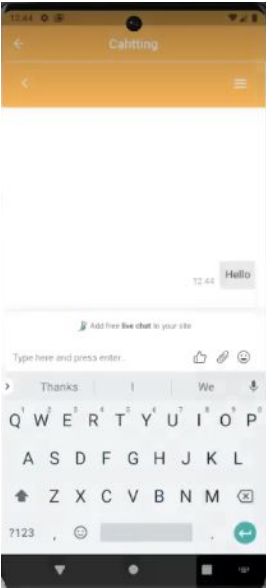


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E- Live Chat for Technical Support:

We have used the idea of live chat in order to provide an opportunity for technical support for engineers in the event that they encounter technical problems, or even to transfer the problems of workers that they face. We have used the Tawk.To library in applying filters:



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Future Work

- Create a chat between the worker and the engineer, between the worker and the owner of the company, and also between the workers
- Make the admin able to access the application through the mobile phone, not just the web
- Make the application support multiple languages, so Engineers and Worker around the world can share experiences and knowledge.
- Applying the idea of live location so that it is possible to track the movements of workers and direct them to their tasks

Conclusion

- In general, this application, with everything it contains from Features, is to try to help owners of companies and real estate to do their work, save time and effort, and continuously monitor the progress of projects, in addition to that this project has gained us new experiences in terms of learning new languages and frameworks

Thank You