

SMART WORKFLOW FOR MANUFACTURING INDUSTRY USING QR CODE TECHNOLOGY

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Abstract : We are presenting a savvy framework which will permits our client to follow every single movement utilized for building the carbide material , Implementing this framework will take web technology as the innovation and data set proposed by customer. Our framework will be online which will have distinctive client like super administrator, employee, and customer. Every one will have diverse client ID(for employees) and secret key, our framework depends on QR code checking, where client will login to application and output the QR code dependent on canister (Container which is client to convey the material) as our framework will naturally change the situation with building the stage. The current status of specific material will be displayed in plain view. The advantages will be simple following of current period of material and the amount. We are additionally giving an element where super administrator will set the consent for the sub clients what to alter and when to alter. Our aim is utilized to keep up with the encryption and security of data. Our system will be electronic which will have assorted customer like super overseer, boss etc. each one will have distinctive Customer ID and Mystery key, our structure relies upon QR code scanning and generation, where customer will login to application and result the QR code subject to holder as our structure will change the circumstance with building the stage. The current status of explicit material will be shown on display.

Keywords: QR code, Android app, website, Notification.

INTRODUCTION

We are introducing a smart system which will allows our user to track each and every activity used for building the carbide material. Implementing this system will take Web Technology and My SQL as the technology and database suggested by client. Our system will be web based which will have different user like super admin, manager, etc. each one will have different user ID and password, our system is based on QR code scanning, where user will login to application and scan the QR code based on cansiter (Container which is user to carry the material) as our system will automatically change the status of building the phase. The current status of specific material will be displayed in plain view. To manage the internal working flow of manufacturing companies and record using phase level tracking and records for updating the information related to delivery of products in the stimulated and committed time to customers.

PURPOSE

Our main purpose is to make system for client to help him manage his activity and maintain each and every record of client's products in different stages. Another objective is to maintain security of confidential data using AES Algorithm to avoid data loss situation and maintain stability to system.

EXISTING SYSTEM

The current situation of Hindustan Tungsten Carbide organization is chaotic the fundamental issue they are confronting right presently is to oversee records. Not able to find the phase of particular material of client. Due to which the commitment to client goes fail.

DRAWBACKS OF EXISTING SYSTEM

- **Less Convenient:** The existing system is not user friendly because the retrieval of day-to-day activities data/records is very slow and records are not maintained efficiently and effectively.
- **Complex for generating the report:** We require more calculations and efforts to generate the report so it is generated at the end of the session. And the student does not get a chance to improve their attendance.
- **Lengthy time:** Every work is done manually so we cannot generate report in the middle of the session or as per the requirement because it is very time consuming.

PROPOSED SYSTEM

- Centralized Management system.
- Proper management of work done in company with material tracking.
- Ability to scan and generate QR code for material/product tracking.
- Distinct platform for admin,customer and employees for easy use of services.

SYSTEM ARCHITECTURE

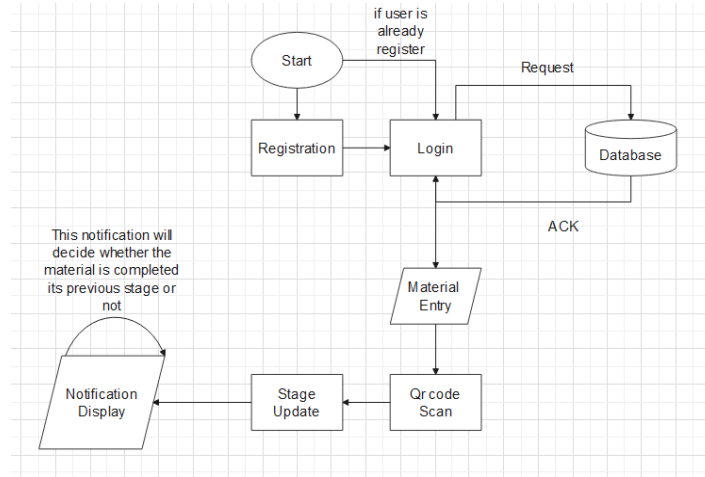


Fig -1: System Architecture Diagram

ADVANTAGES

1. Innovative.
2. Centralised Database.
3. Efficient cost.

APPLICATION:

1. Can be used in automation industry.
2. Can be used in parcel delivery ecosystem.
3. Can be used in delivery optimization modules.

DATA FLOW DIAGRAM

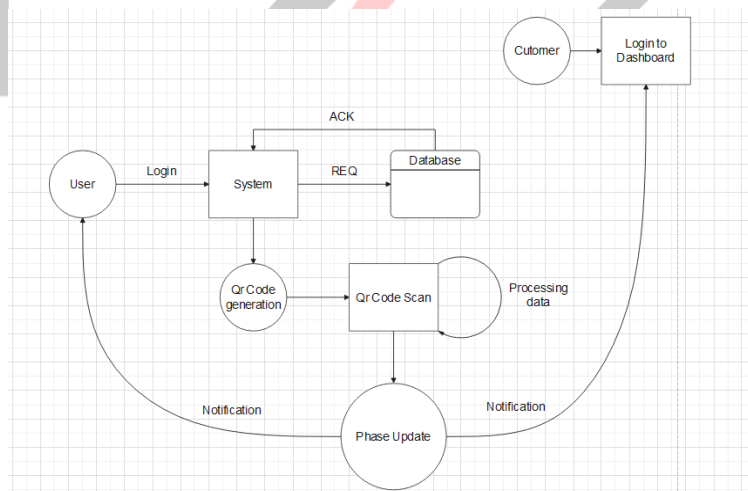


Fig-2: Data Flow Diagram

METHODOLOGY

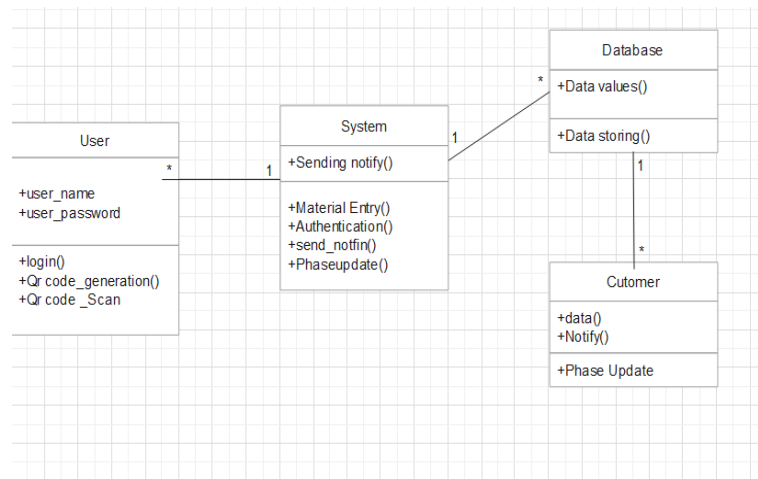
The single problem can be solved by different solutions. This considers the performance parameters for each approach. Thus considers the efficiency issues:

1. Effective communication with team and company so as to discuss and understand the problem clearly and then defining

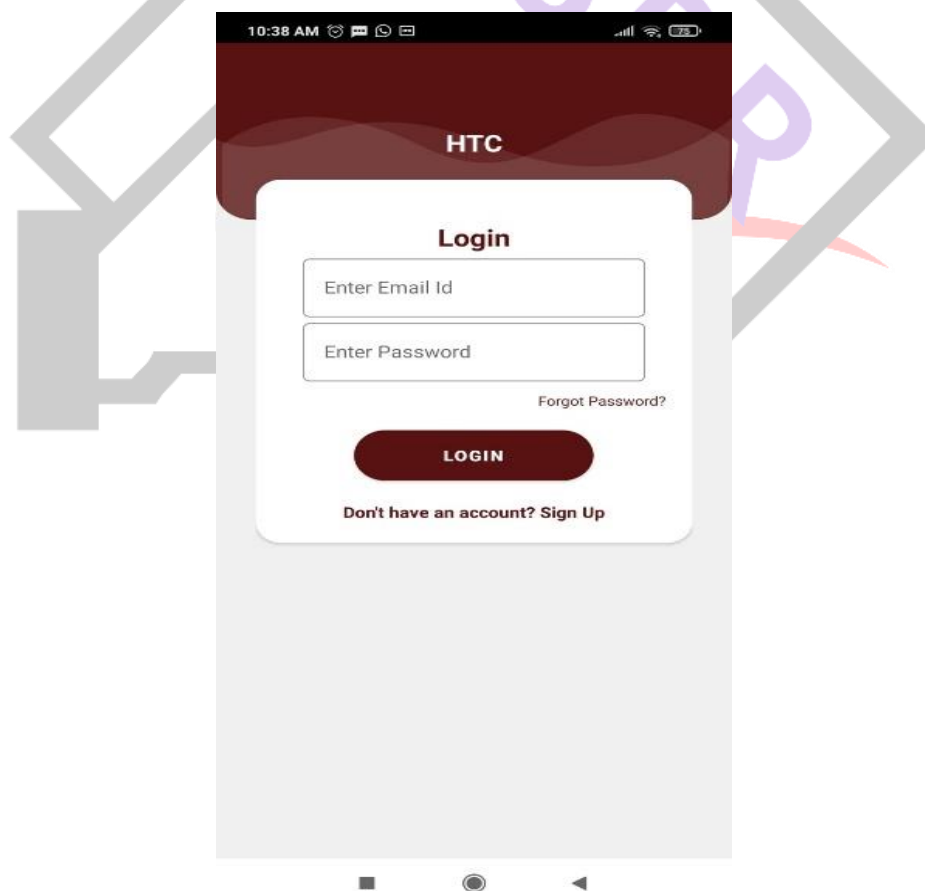
the viable solution that can be approached for a particular problem..

2. Identifying the best solution in terms of performance and efficiency by researching it through forums like StackOverflow and Reddit and discussing it with mentors and company to implement the solution for the problem.
3. Implementing a prototype by designing the flow diagrams regarding the solution.

CLASS DIGRAM



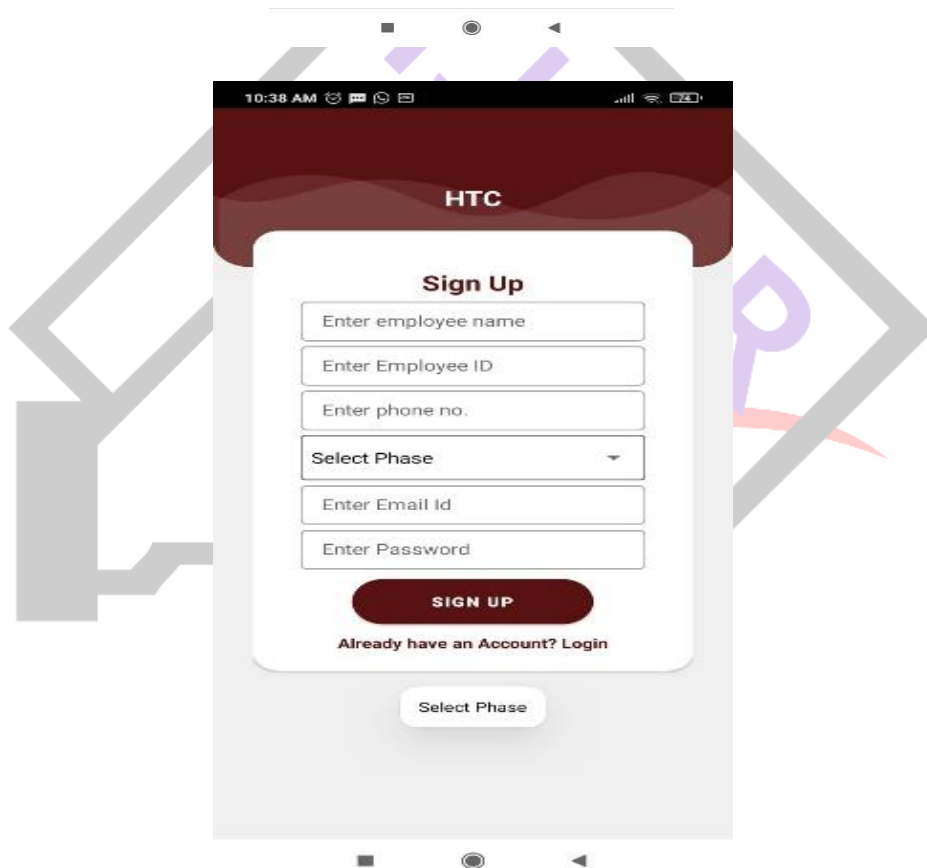
Results:

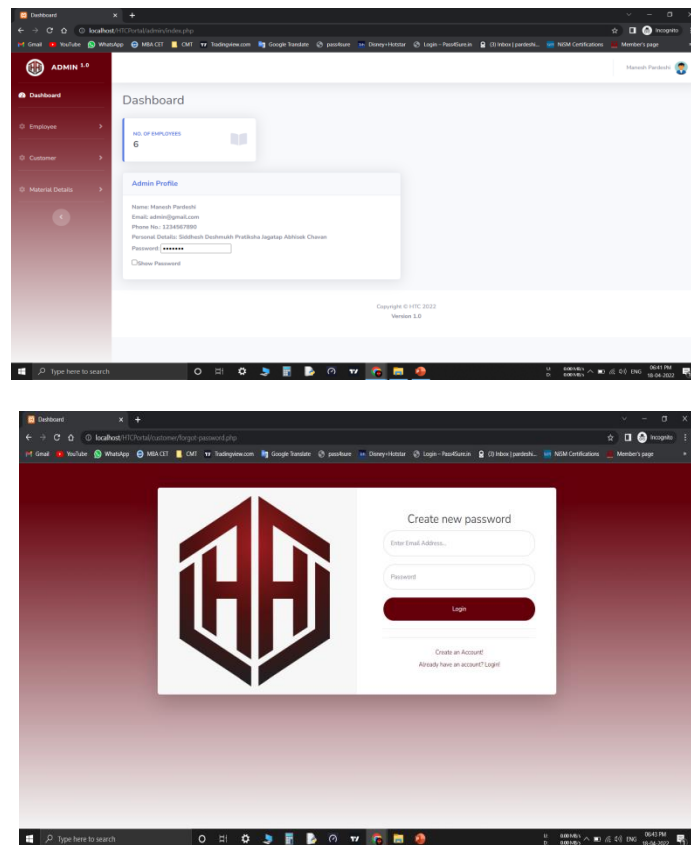




GENERATE QR CODE

SCAN_QRCODE





5. CONCLUSION

As our project is real time based, and it's a real-time problem, and this type of system is not build yet for particular company. So it's a real time solver which has a features like it is affordable by everyone and it is user friendly. The limitation like complex structure, and low performance are overcome in this project. Hence we are provide a centralized management system with secure AES algorithm for our user to track carbide material production and phases. As our venture is constant based, and it's a continuous issue, and this sort of framework isn't fabricate yet for specific organization. So it's an ongoing solver which has an elements like it is reasonable by everybody and it is easy to understand. The limit like complex design, and low execution are defeated in this undertaking. Subsequently we are furnish a unified administration framework with secure AES calculation for our client to follow carbide material creation and stages. As our endeavor is consistent based, and it's a constant issue, and this kind of structure isn't manufacture yet for explicit association. So it's a continuous solver which has a components like it is convenient to use by everyone and it is straightforward. The cutoff like complex plan, and low execution are crushed in this endeavor. Along these lines we are outfit a bound together organization structure with secure AES computation for our customer to follow carbide material creation and stages.

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