

E-VOTING APPLICATION

Vishwanath A

21CSEA35

2nd MCA – 1st Batch



INTRODUCTION

The project's main objective is to enabling voting at elsewhere regardless of an individual's current location through online mode providing a secured and user-friendly voting system.

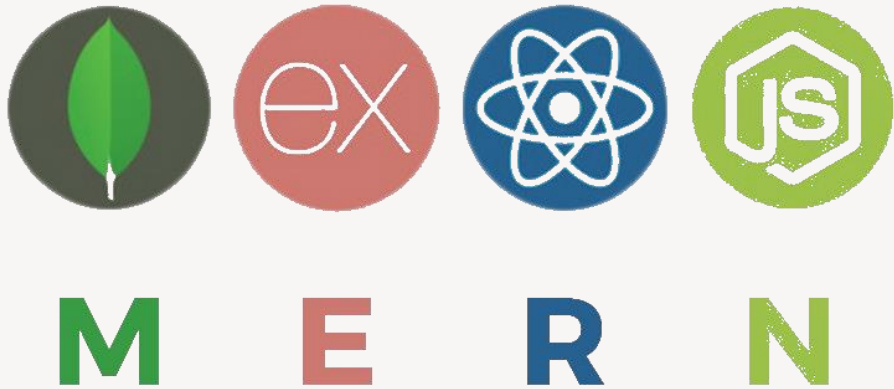


OBJECTIVE

The problem of e-voting is still critical in terms of safety and security. This is a robust system, which deals with the design and development of a web-based voting system. Our system deals with online voting system that facilitates user(voter), candidate and administrator (who will be in charge to monitor voting) to participate in online voting.



WEB TECHNOLOGY



DATABASE

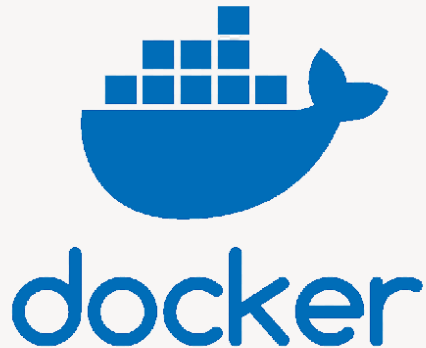


MongoDB is an open-source document-oriented database that is designed to store a large scale of data and also allows you to work with that data very efficiently. It is categorized under the NoSQL (Not only SQL) database because the storage and retrieval of data in the MongoDB are not in the form of tables.

It also provides official driver support for all the popular languages like C, C++, C#, and .Net, Go, Java, Node.js, Perl, PHP, Python, Motor, Ruby, Scala, Swift, Mongoid.

Nowadays there are so many companies that used MongoDB like Facebook, Nokia, eBay, Adobe, Google, etc. to store their large amount of data.

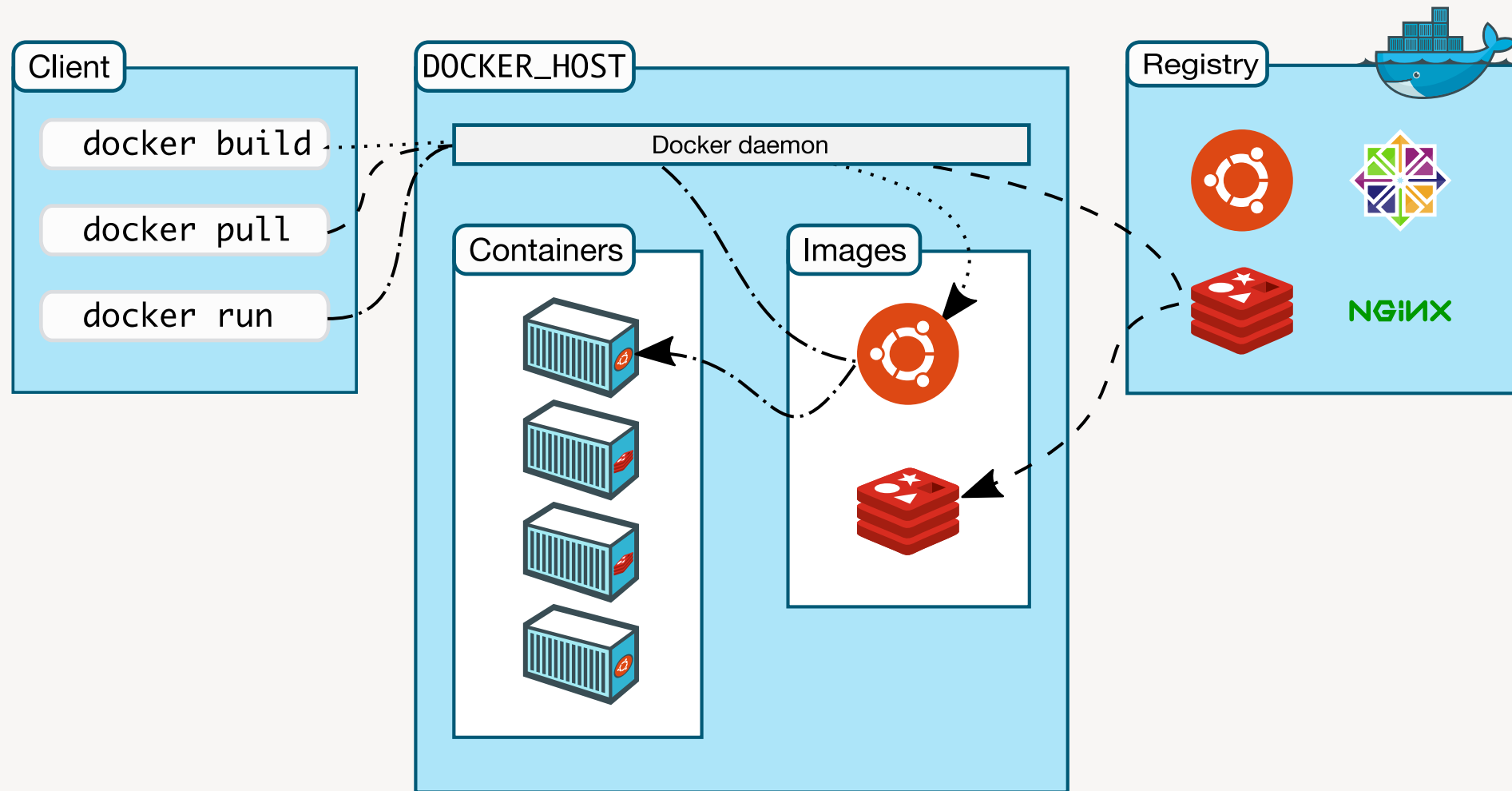
DOCKER



Docker is an open platform for developing, shipping, and running applications. Docker enables you to separate your applications from your infrastructure so you can deliver software quickly.

With Docker, you can manage your infrastructure in the same ways you manage your applications. By taking advantage of Docker's methodologies for shipping, testing, and deploying code quickly, you can significantly reduce the delay between writing code and running it in production.

DOCKER ARCHITECTURE



SECURITY

- ❑ A JSON web token(JWT) is JSON Object which is used to securely transfer information over the web(between two parties).
- ❑ It can be used for an authentication system and can also be used for information exchange.
- ❑ The token is mainly composed of header, payload, signature.
- ❑ JWTs can be signed using a secret (with the HMAC algorithm) or a public/private key.



INTERFACE



❑ USER INTERFACE

User Login Screen

User Email Verification Screen

User OTP Verification Screen

User Vote Form Screen

User Profile Screen

❑ ADMIN INTERFACE

Admin Login Screen

Admin Profile Screen

User Vote List Screen

User Vote Analysis

Nomination List Screen

User List Screen



HOSTING

Render is a unified cloud to build and run all your apps and websites with free TLS certificates, a global CDN, DDoS protection, private networks, and deploys from Git.

Link

<https://voting-application.onrender.com/>

THANK YOU

Name: Vishwanath A

Reg No: 21CSEA35

Course: 2nd MCA – 1st Batch

