


Exam proctor-SLAT

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Objective:

Development of a exam proctor application using mern stack which can able to add course and conduct exam and perform monitoring over them.

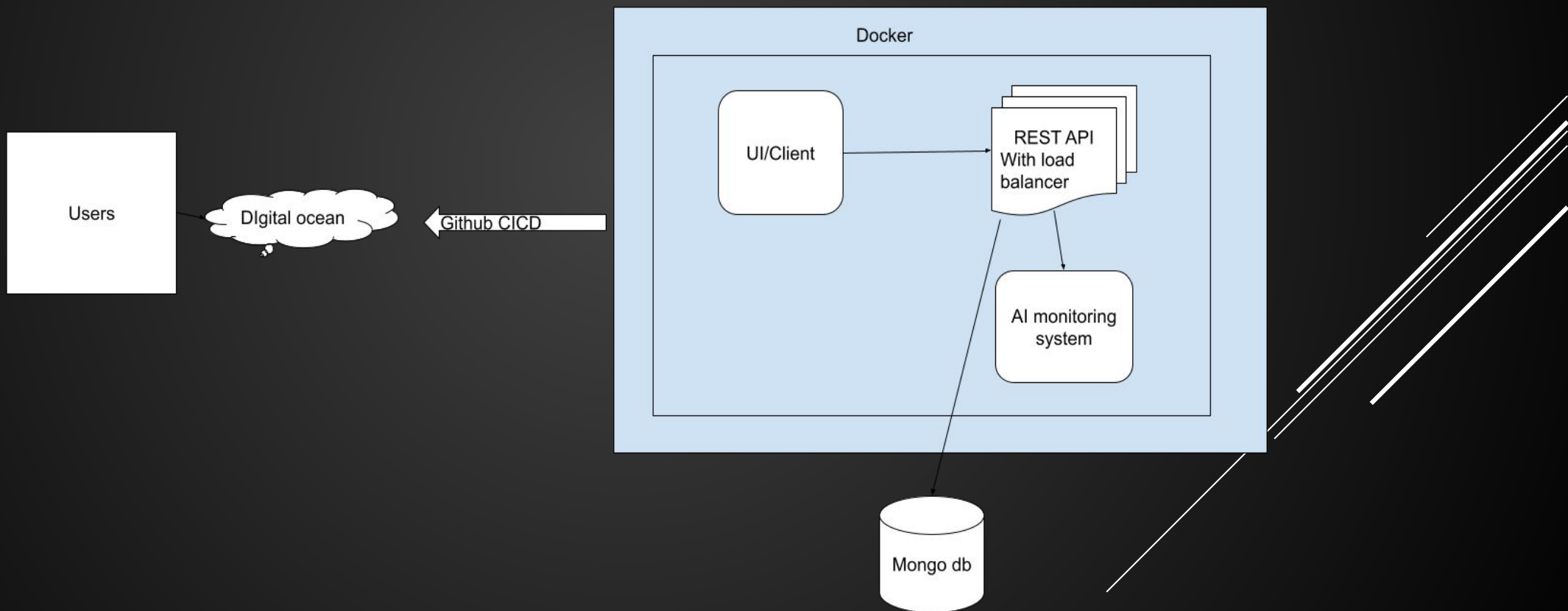
Benefits:

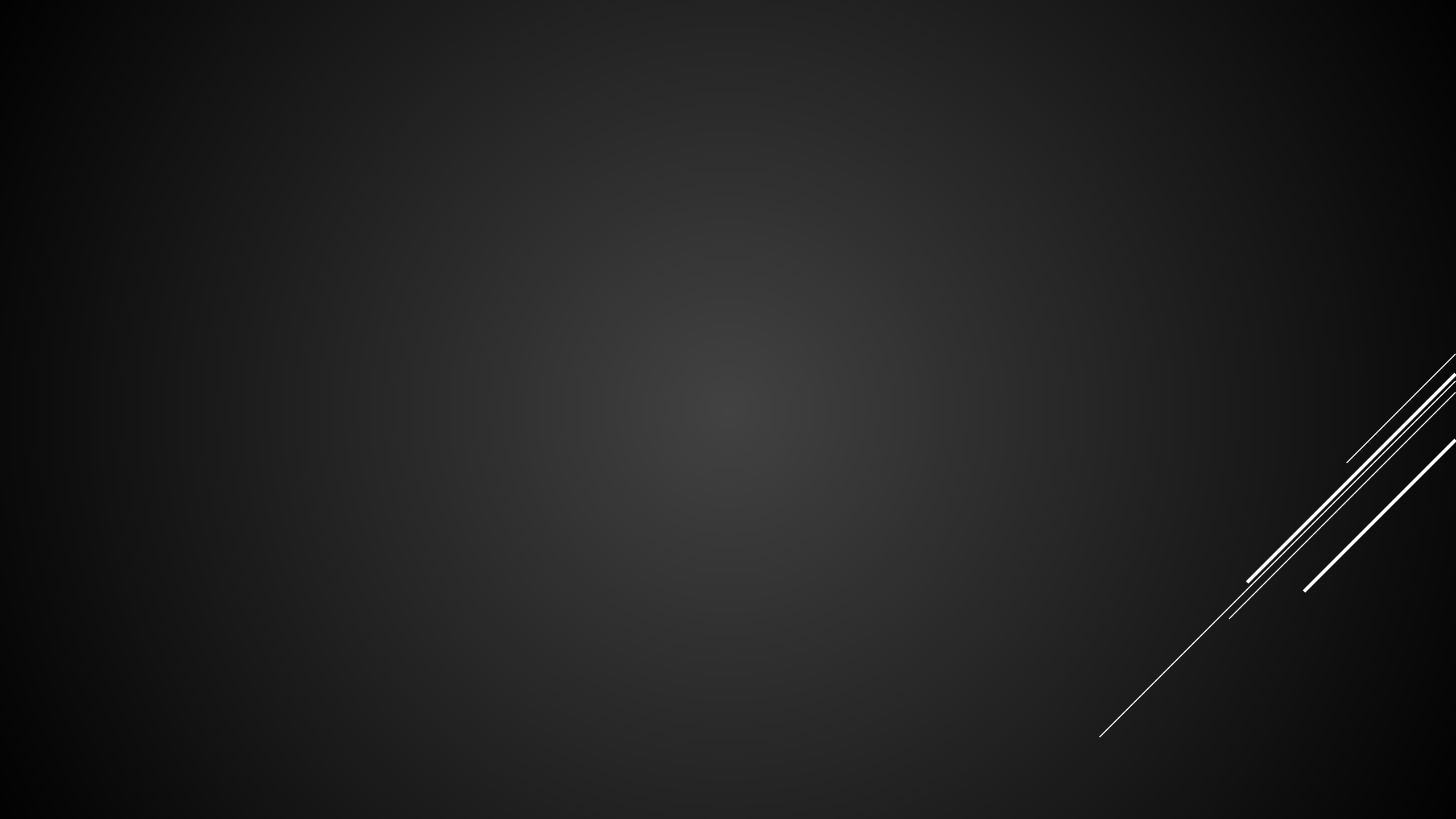
- Comfort to learning from anywhere.
 - Only exams can be monitored in a better way.
 - Getting verified with certificate which can be showcased.
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Data Sharing Agreement :

- The photo which are used for monitoring exam will not be shared or stored in any form

Architecture







Types of uses:

- Creator - person who can create and conduct exams
- Learner - Person who can view the content learn and take exams which are monitored

Front End and Back End

- React and bootstrap is used front end development
 - Express and node is used for the back end development
 - Interaction between these two are happening through REST API's
 - JWT based Authentication is being implemented
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Database:

- Atlas a cloud based managed database is being used to store data.
 - Mongoose is used to interact between node and mongo.
 - For storing files which are >16mb mongo grid is being used.
 - IP filtering is being applied.
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Monitoring system

- Python, Flask, mediapipe and deepface is being used to created real time monitoring system which will analyse your examination.

Containerization


- Docker and docker compose is used to containerize front end and back end

GIT and CI/CID

- Github is used for code maintenance and github action is used to CI CD pipeline



Deployment:

- Digital ocean is being used as a cloud service to deploy our docker containers in its droplets
 - Caddy is used for reverse proxy and load balancer for our node application
 - Godaddy is used for purchasing domain and DNS management
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