

16 - Full Stack Developer - Training Workshop

A fresher will take the time as suggested on the left side. However, a senior or experience should be able to complete the tasks in half the time.

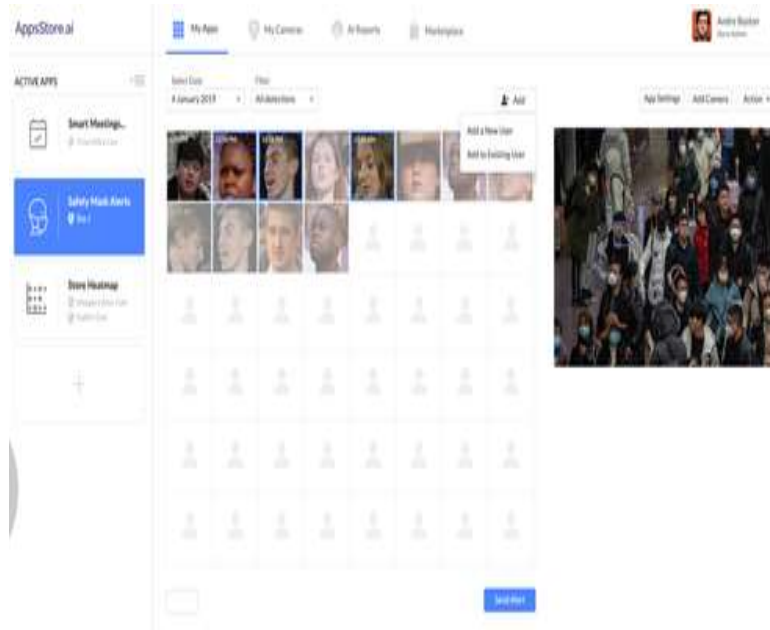
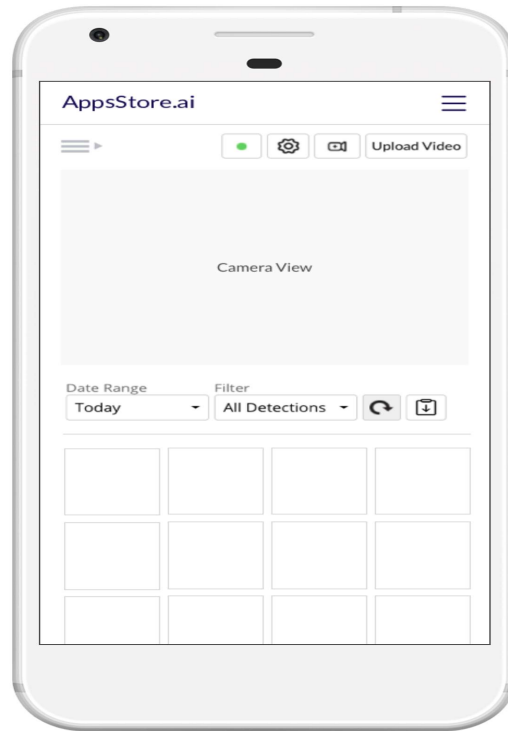
ALSO, YOU CANNOT SHARE YOUR CODE WITH OTHERS. YOU WILL NEED TO SHOW THE DEMO INDIVIDUALLY.

	Workshop	Description	Deliverables
1	NodeJS application 8hrs	Simple file upload MongoDB service.	<ul style="list-style-type: none">Running nodejs application with mongodb read / write method.
2	JWT Token 8hrs	Validate JWT token by creating a middleware. which is passed in the API. Use a simple private key to encrypt or decrypt the token.	<ul style="list-style-type: none">API call that only works when a JWT token is passed. API fails if JWT token is not correct.

3

ReactJS
16hrs

- Create a responsive web page absolutely similar to this design.
<https://marvelapp.com/prototype/8g8jedj/screen/70353074>



You can use any similar icons from the internet.

The page should look pixel perfect as the designs mentioned. The page should be responsive.

4	Container / ECS 8hrs	Install and create a docker container that runs an opencv4nodejs npm example. This docker container should run a Ubuntu machine with a nodejs application. The application should have an API that can be called to check if the photo passed in the API has the “Amitabh Bachan” face in it or not. https://www.npmjs.com/package/opencv4nodejs	<ul style="list-style-type: none"> API where we can pass a photo and it returns if Amitabh bachan is in the photo or not.
5	Timezone 4hrs	<p>Create a reactJS + Nodejs application where save 5 Unix timestamp in a MongoDB table. When we show it on the browser to the user, the timestamps show and convert in following timezone:S</p> <ol style="list-style-type: none"> 1. New York 2. Delhi 3. London 	<ul style="list-style-type: none"> A webpage where we can see the time in 3 timezones. If the MongoDB timestamp entry is modified, the user will see a different time in the browser webpage.
6	ELK Stack Implementation 8hrs	You need to understand and launch an instance of ElasticSearch, Logstash, Kibana each on your local machine.	
7	AWS 16hrs	<ol style="list-style-type: none"> 1. Make an API gateway POST call using Postman, that triggers a lambda function. The lambda function will make a call to AMQP rabbitMQ queue named “lambda_queue”. Once the message is received in the queue, an email to go out to a predefined email address. 	<ul style="list-style-type: none"> Lambda function API name and Postman call document Email received in an mailbox with the name passed in the POST API call.