Dharmsinh Desai University, Nadiad

Faculty of Technology, Department of Computer Engineering

B.Tech. CE Semester – VI

Subject: System Design Practice

Project Title:

Go-On

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Dharmsinh Desai University, Nadiad

Faculty of Technology, Department of Computer Engineering

CERTIFICATE

This is to certify that System Design Practice entitled "Go-On" is the bonafied report of work carried out by

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Of Department of Computer Engineering, Semester VI, academic year 2019-2020, under our supervision and guidance.

Guide	HOD
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Content

1. Abstract

A Solution for tracking the live things.

-what's going on in nearest places?

-current affairs as well as current videos of places.

-in shorts anyone can share their moments and anyone can see everyone's moments.

-this can be useful in current days also (corona-effect).

2. Introduction

-Go-On is one intermediatory between users for sharing their moments as well as searching for moments .It is just storing live videos and searching in them with an efficient algorithms.

-searching is based on live coordinates.

Tools/Technologies

-Node-js

- RTCMultiConnection

-Ajax/jQuery/css/bootstrap

-socket.io

-HTML5 GeoLocation

3. Software Requirement Specifications

1)User

R.1. GoLive

Input : description about place, Location
Output : Live video running on server

R.2. ShowLiveVideo

Input : select live video to show
Output : Live video streaming

R.3.Fetch_Location

Input:it fetches location of users using HTML5Geolocation

R.4. Search

R.4.1. nearest_search

Output: based on location coordinates it fetches data from folder andshows inwell definedformat

R.4.2.recent_search

Output:based on recentness of videos (timestamp) sorts and shows on screen

R.5.Thumbnails

Output:shows All videos from folder with best

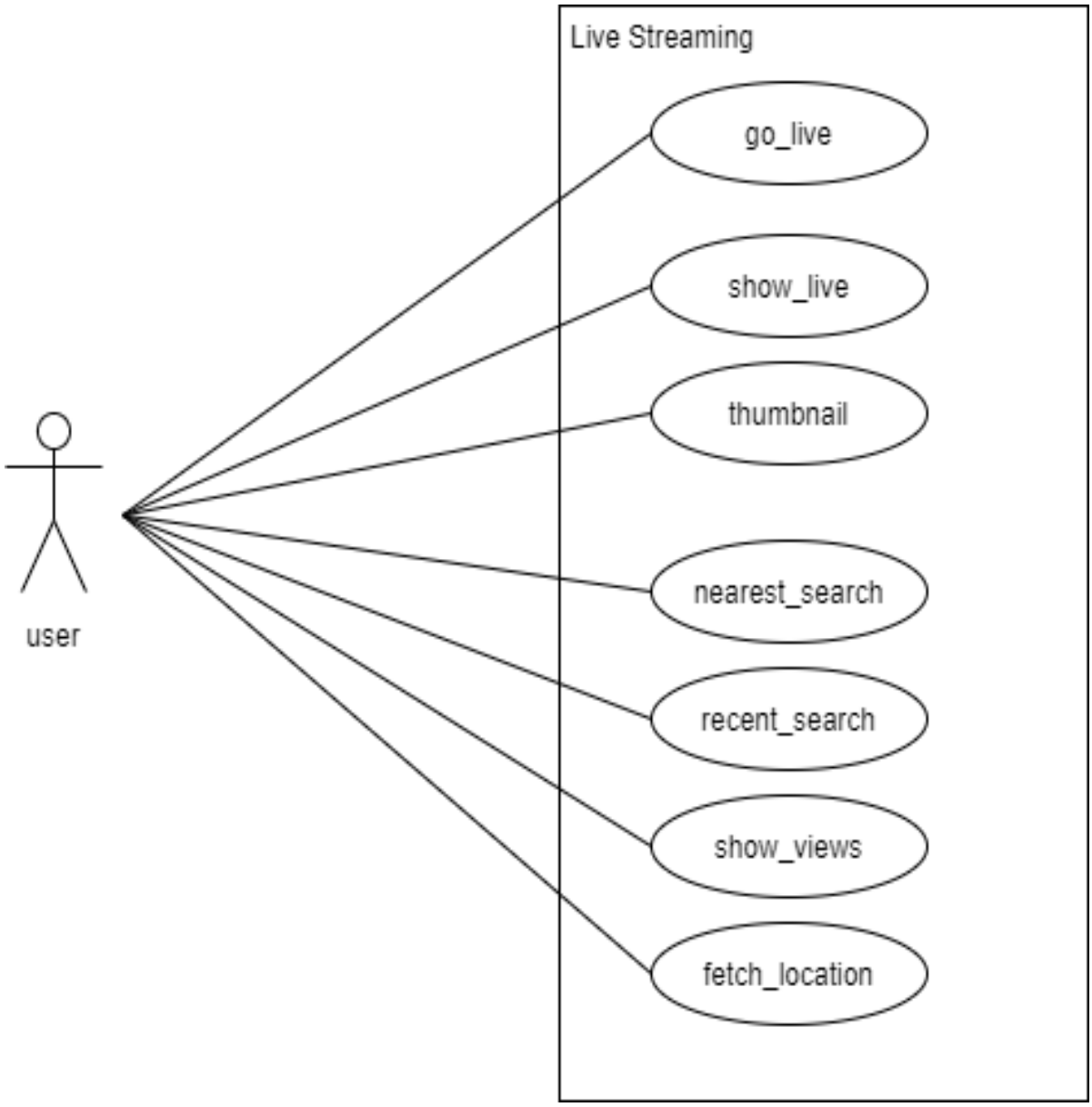
algorithm R.5.1.Search (inherited R.4)

R.6.show_views

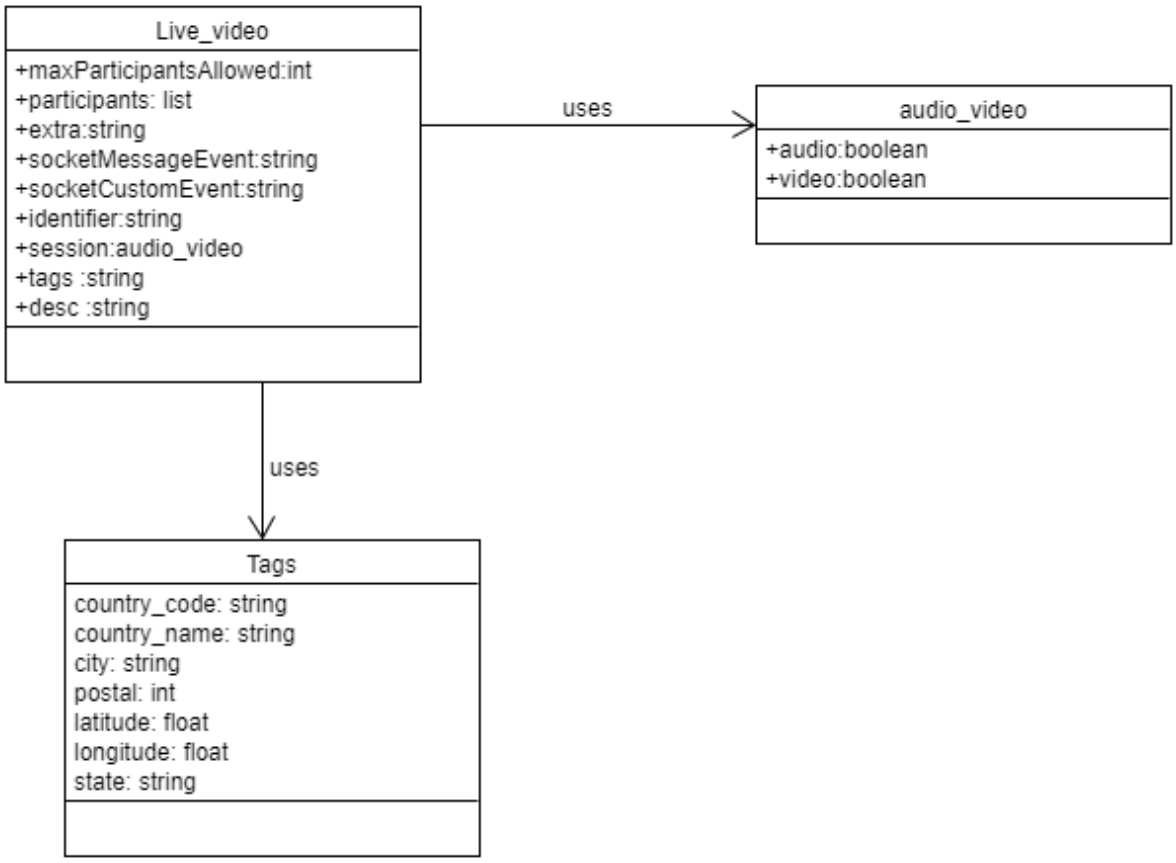
Output: Dynamic views on live videos

4. Design

4.1 Usecase_Diagram:



4.2 Class Diagram



5. Implementation Details

- Live Streaming:

  -Live Streaming videos using RTCMulticonnnection library and socket .io

  -storing all videos in our folder with their descriptions and live coordinates

- Live Location:

  -live coordinates are fetched using HTML5 geolocation API

- Search:

  -75% efficient searching algorithm

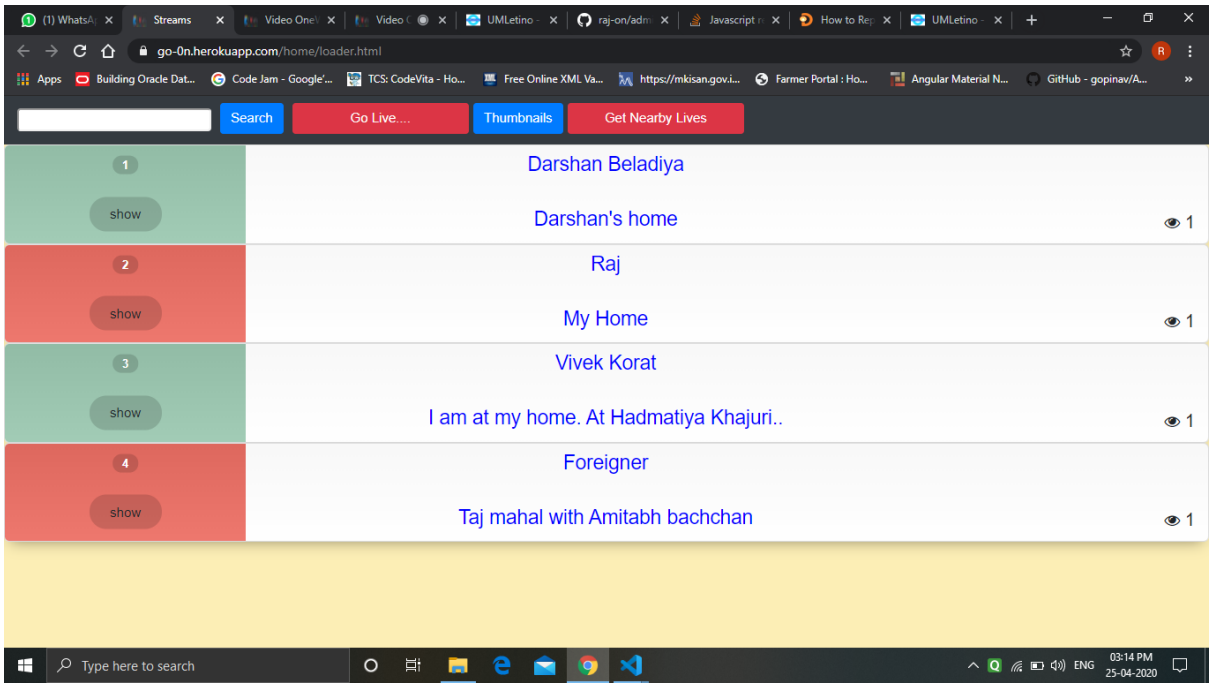
  -matches using frequencies of characters

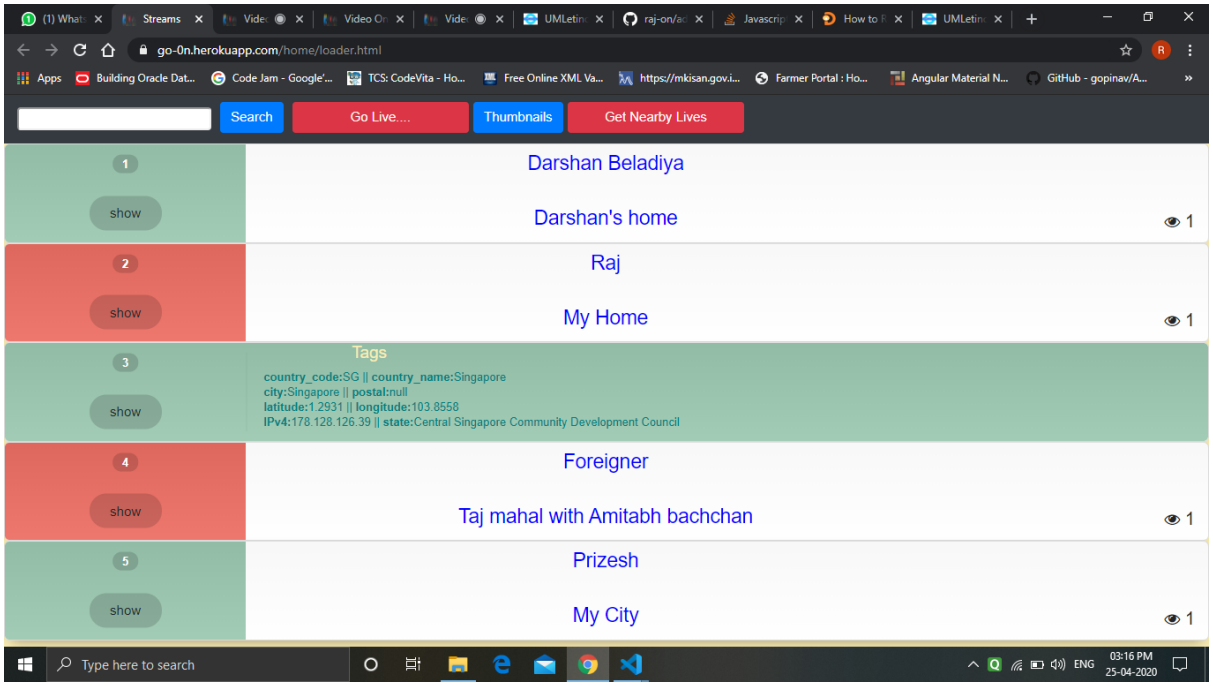
  -nearest search: shows nearest videos using HTML5 Geolocation APIandfetches location coordinates

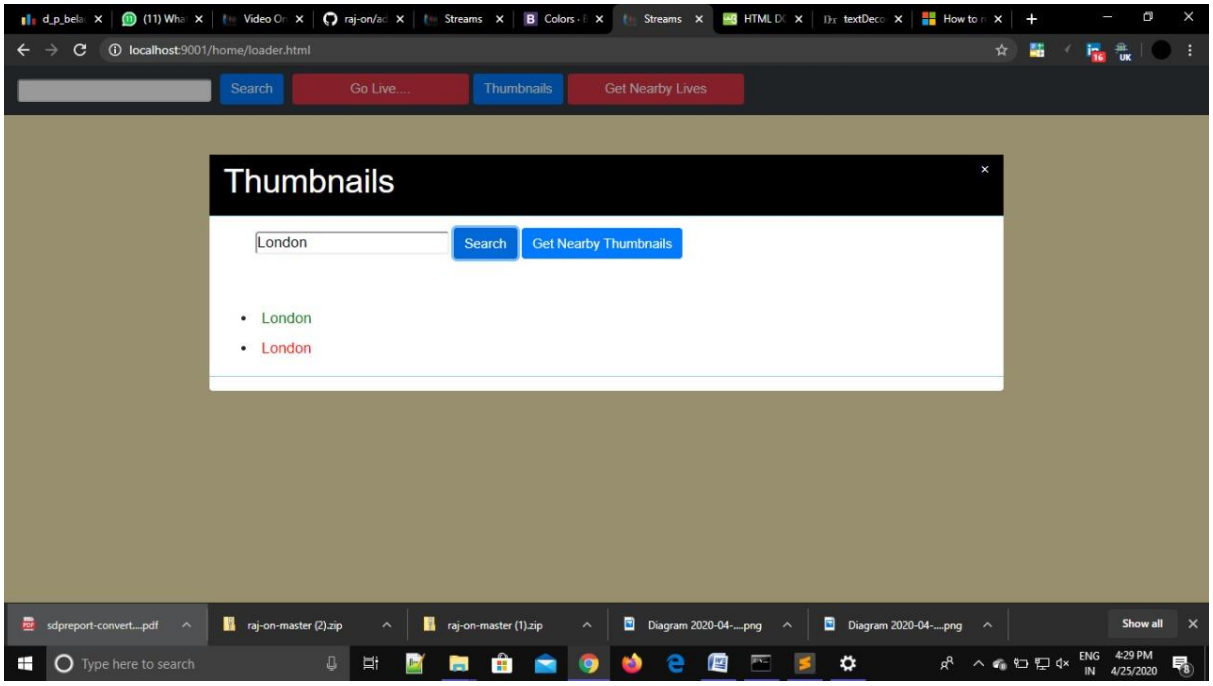
- LiveViews:

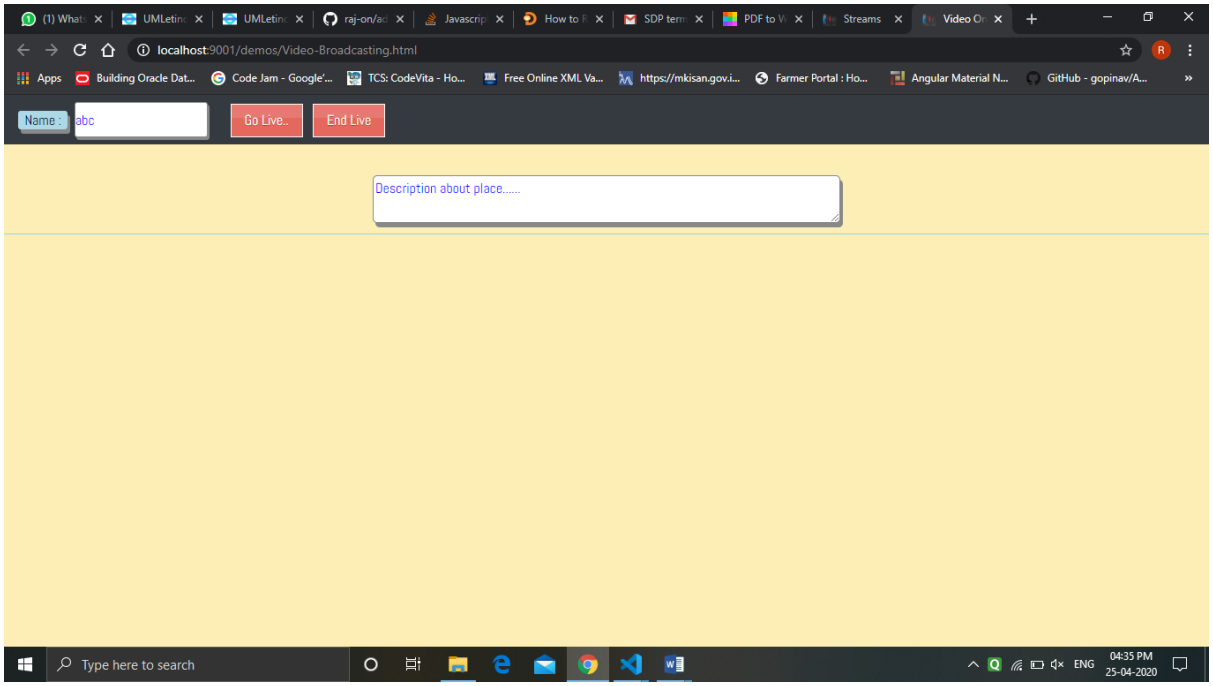
  -It shows live views on live videos for references as well as searching purpose

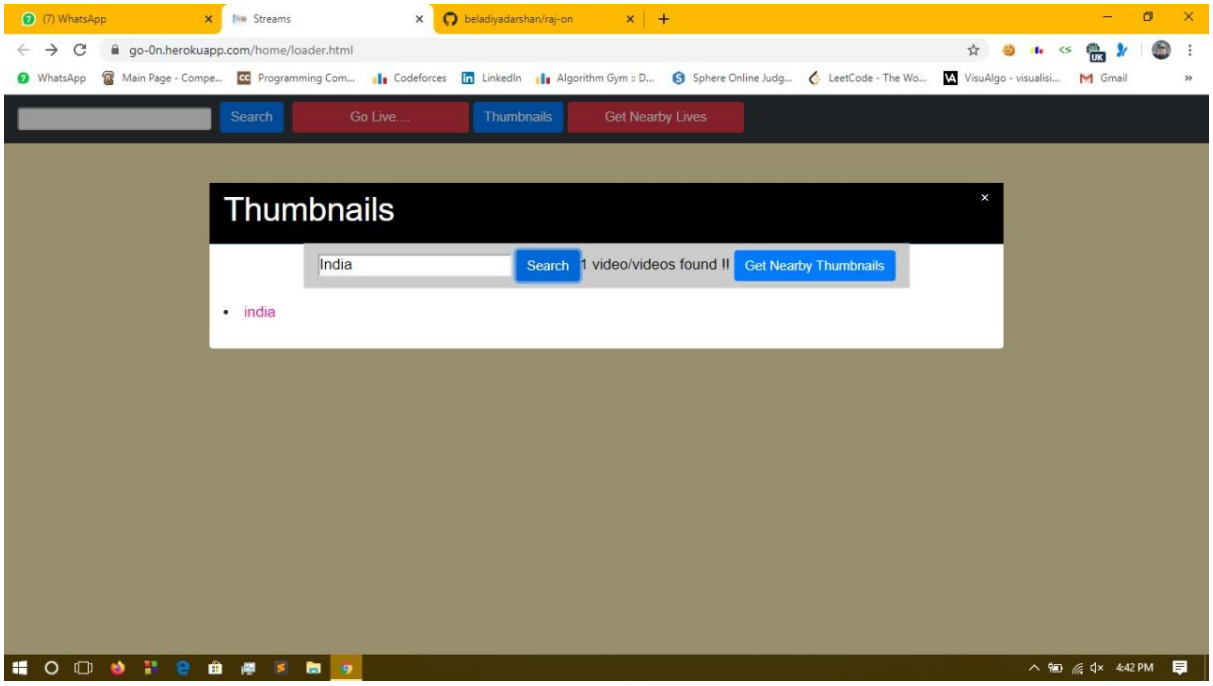
6. screen shots

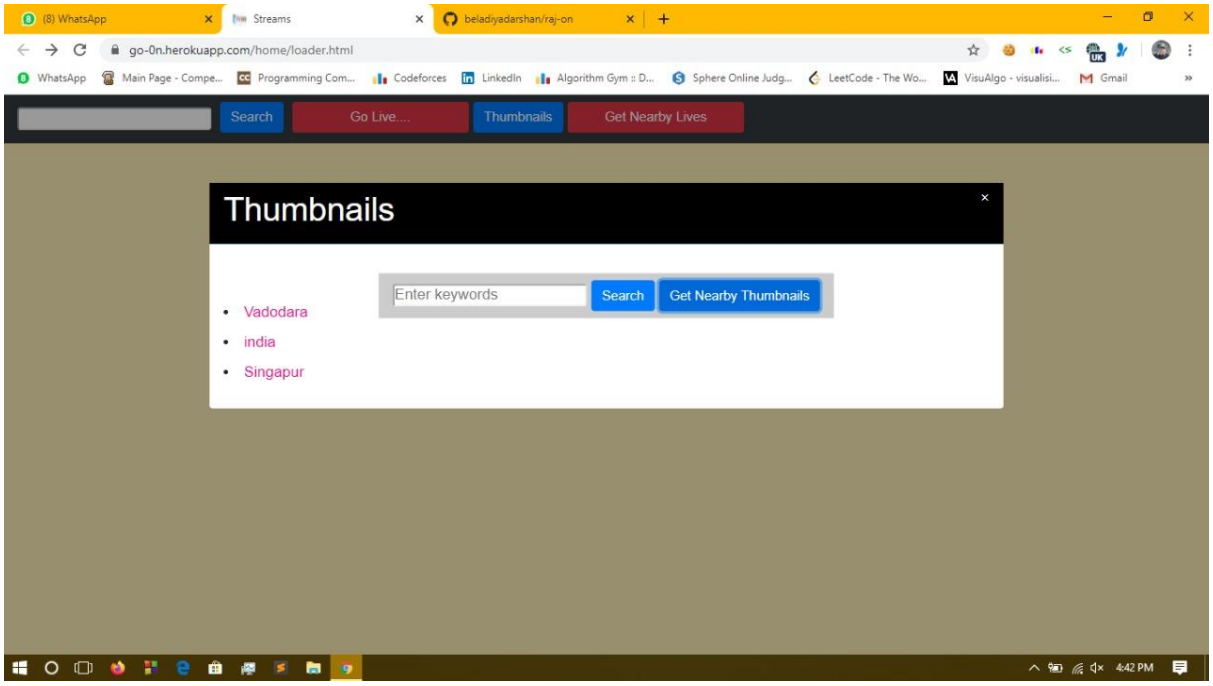





localhost:9001/home/loader.html
Search
Go Live....
Thumbnails
Get Nearby Lives
Thumbnails
London
Search
Get Nearby Thumbnails
London
London
Type here to search


localhost:9001/demos/Video-Broadcasting.html
Name :
abc
Go Live..
End Live
Description about place.....
Type here to search


(7) WhatsApp
Streams
beladiyadarshan/raj-on
go-0n.herokuapp.com/home/loader.html
Search
Go Live....
Thumbnails
Get Nearby Lives
Thumbnails
India
Search
1 video/videos found !!
Get Nearby Thumbnails
india
4:42 PM


(8) WhatsApp
Streams
beladiyadarshan/raj-on
go-0n.herokuapp.com/home/loader.html
Search
Go Live....
Thumbnails
Get Nearby Lives
Thumbnails
Enter keywords
Search
Get Nearby Thumbnails
Vadodara
india
Singapur
4:42 PM

7. conclusion

-**I**t is useful in critical situations as well as happy moments of day 2 day life.

-Everyone will have news of every moments of every places

8. Limitations and Future Enhancements

8.1) Limitations

-Space limitations on server as well as limited live videos with server limit as well as storage limit.

8.2) FutureEnhancements

-ML detections for videosfacial

-recognition

- effects like tiktoketc…

9. Reference / Bibliography

- Standard Documentation
  https://doc-kurento.readthedocs.io/en/6.13.0/tutorials/node/tutorial-magicmirror.html

- Exmples
  https://github.com/muaz-khan/RTCMultiConnection