

Digital Assignment - 4
CSE1901 - TECHNICAL ANSWERS FOR REAL WORLD PROBLEMS
Summer Semester Special 2021-2022

App Based Road Safety Violation Recording System

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IMPLEMENTATION SNAPSHOTS

PSEUDO CODE

```
const complaintSchema = new mongoose.Schema ({
  // id: { type: String, required: true },
  reportedBy: { type: String, required: true },
  reportedLocation: { type: String, required: true },
  description: { type: String },
  imageUrl: [String],
  vehicleNumber: { type: String, required: true },
  transporterName: { type: String },
  transporterCode: { type: String },
  comments: { type: String },
  createdOn: { type: Date, default: Date.now },
  status: { type: String, enum: ["OPEN", "CLOSED"], default: "OPEN" },
  remarks: { type: String, default: "None" }
});
```

Figure 1. Complaint Schema Code

```
const transporterSchema = new mongoose.Schema({
  name: { type: String, required: true },
  id: { type: String, required: true }
});
```

Figure 2. Transporter Schema Code

```

const locationSchema = new mongoose.Schema({
  name: { type: String, required: true },
  location: {
    type: {
      type: String,
      enum: ["Point"],
      required: true
    },
    coordinates: {
      type: [Number],
      required: true
    }
  }
});

```

Figure 3. Location Schema Code

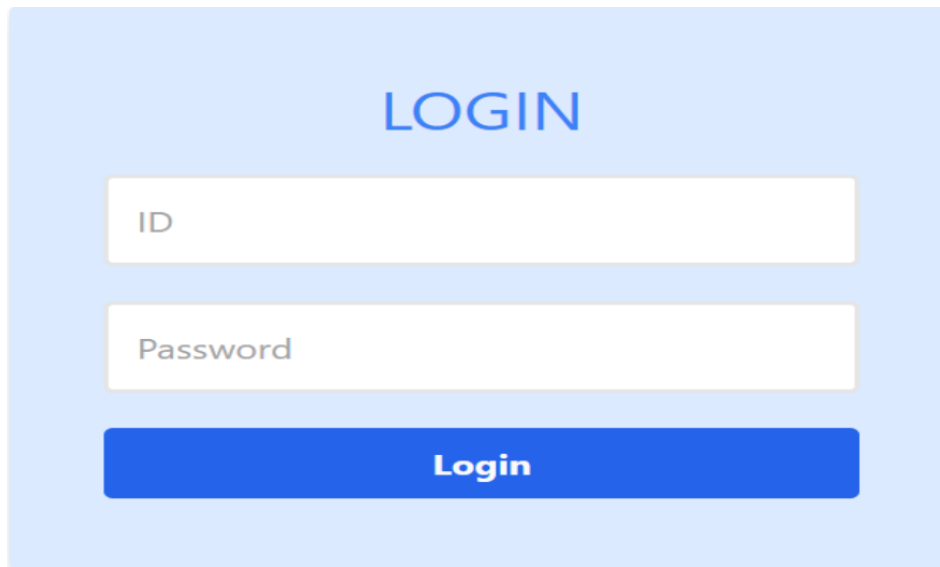
```

const userSchema = new mongoose.Schema ({
  id: { type: String, required: true } ,
  password: { type: String, required: true } ,
  type: { type: String, enum: ["ADMIN", "VIEWER"], required: true } ,
  lastLogin: { type: Date, default: Date.now },
  createdOn: { type: Date, default: Date.now }
  // currentToken: String,
  // currentTokenTimestamp: Date
  // modifiedOn: Date
});

```

Figure 4. User Schema

WEBSITE SNAPSHOTS



A screenshot of a login page with a light blue background. At the top center, the word "LOGIN" is displayed in a large, blue, sans-serif font. Below it, there are two white input fields with thin grey borders. The first field contains the text "ID" in a grey font, and the second field contains the text "Password" in a grey font. Below these fields is a solid blue button with the word "Login" in white, bold, sans-serif font.

Figure 5. Login Page

WELCOME

Dashboard

View Complaints

Report

Admin

Logout

REGISTER COMPLAINT :

Reported Location

Description

Vehicle Number

Transporter name-id

comments

Choose Files

No file chosen

Upload

Figure 6. Dashboard

WELCOME

Dashboard

View Complaints

Report

Admin

Logout

VIEW COMPLAINTS

List All

display

COMPLAINT 1:

Description : wrong parking

Reported Location : G Blast Furnace

Vehicle Number : DL-211-111

Transporter Name (optional) : Total Transports

Transporter Code (optional) : A233

Created On : 2021-07-15T15:53:44.012Z

Comments : bad

Image URLs :

Link 1

Status : CLOSED

Remarks : tyup[oilyutrdef

COMPLAINT 2:

Figure 7. Complaints page

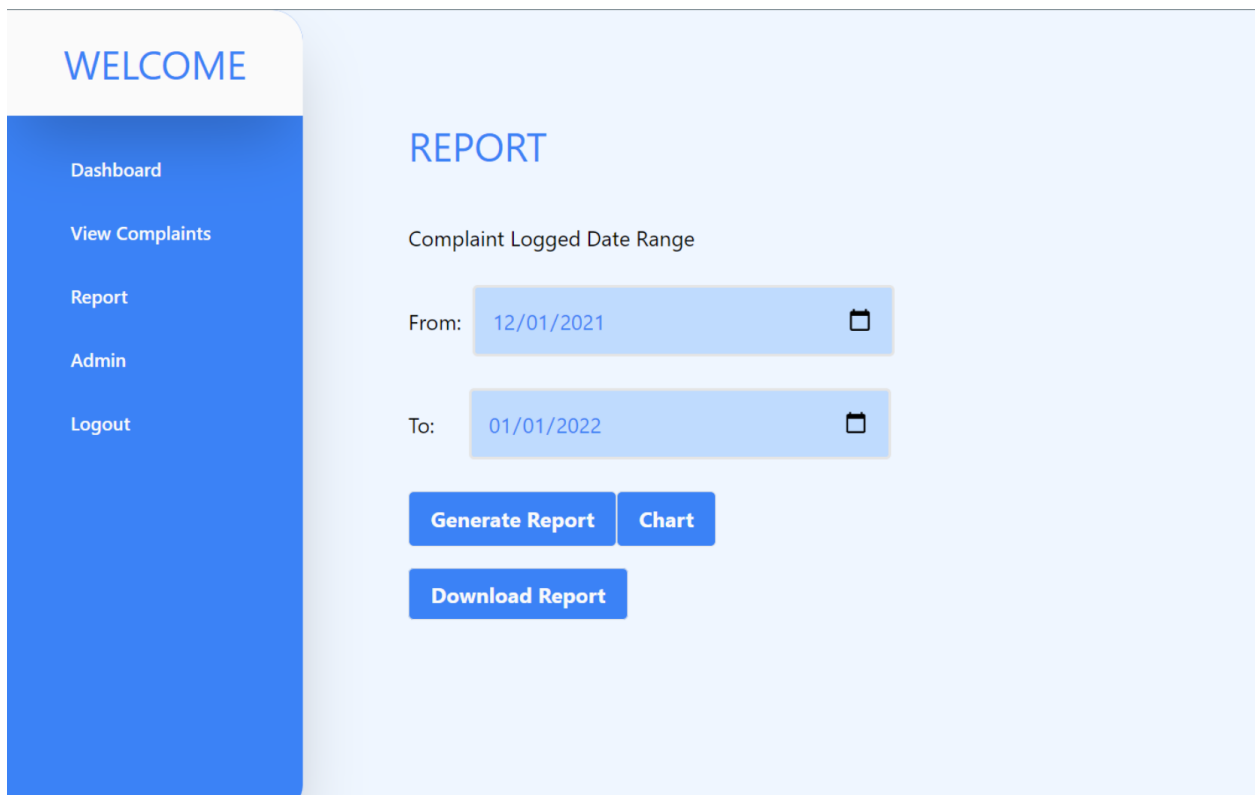


Figure 8. Reports Page

EDIT COMPLAINT

COMPLAINT ID = 60F97A4771F1AD329CE3BF6E

Reported By : abc123
Description : jjj
Reported Location : CRM
Vehicle Number : kkk
Transporter Name (optional) : MAZDA & YADAV ASSOCIATES
Transporter Code (optional) : K033
Created On : 2021-07-22T14:01:43.757Z
Comments : ooo
Image URLs :
[Link 1](#)

Status : OPEN

Remarks : None

ADD REMARKS

Choose a status ▼

Edit Complaint

Figure 9. Edit Complaint Page

SERVER SNAPSHOTS

```
> nodemon --exec babel-node app.js

[nodemon] 2.0.9
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `babel-node app.js`
Server listening on Port - 3001
http://localhost:3001
connected to db
```

Figure 10. Backend Server

```

> client@0.1.0 start C:\Users\kulvir\Desktop\internship\TataSteel\PROJECT\client
> craco start

[wds] : Project is running at http://192.168.80.1/
[wds] : webpack output is served from
[wds] : Content not from webpack is served from C:\Users\kulvir\Desktop\interns
hip\TataSteel\PROJECT\client\public
[wds] : 404s will fallback to /
Starting the development server...

Compiled with warnings.

src\App.js
  Line 3:34:  'Link' is defined but never used      no-unused-vars
  Line 3:40:  'NavLink' is defined but never used      no-unused-vars
  Line 3:64:  'Redirect' is defined but never used      no-unused-vars

src\pages\Complaint-View-Dashboard.jsx
  Line 4:8:  'ReactDOM' is defined but never used      no-unused-vars

src\pages\Edit-Complaint.jsx
  Line 17:7:  React Hook React.useEffect has missing dependencies: 'complaintId'
and 'getComplaint'. Either include them or remove the dependency array  react-h
ooks/exhaustive-deps

src\pages\Login.jsx
  Line 1:27:  'Component' is defined but never used      no-unused-vars
  Line 2:26:  'Router' is defined but never used      no-unused-vars
  Line 2:34:  'Link' is defined but never used      no-unused-vars
  Line 2:40:  'NavLink' is defined but never used      no-unused-vars
  Line 2:49:  'Switch' is defined but never used      no-unused-vars
  Line 2:57:  'Route' is defined but never used      no-unused-vars
  Line 2:64:  'Redirect' is defined but never used      no-unused-vars

src\pages\Register.jsx
  Line 1:27:  'Component' is defined but never used      no-unused-vars

Search for the keywords to learn more about each warning.
To ignore, add // eslint-disable-next-line to the line before.

```

Figure 11. Frontend Server

COMPARISON CHARTS

	A	B	C	D	E	F	G	H	I	J	K
1	Created On	Status	Remarks	Reported	Reported	Description	Vehicle No	Transport	Transport	Comments	
2	2021-07-1	OPEN	ghasdsdg	asd	G Blast Fu	wrong par	DL-211-11	Total Tran	A233	bad	
3	2021-07-1	OPEN	asdqewra	asd	H Blast Fu	fff	sss			qqq	
4	2021-07-2	OPEN	None	abc123	CRM	jjj	kkk	MAZDA &	K033	ooo	
5	2021-07-2	OPEN	hgfgsdadf	asd	CRM	oooo	pppp	MAZDA &	K033	qqqq	
6	2021-07-2	OPEN	remark ne	asd	TSPDL	zzzz	xxxxx	Kailash Ro	34112	ccccc	
7	2021-07-2	OPEN	None	abc123	CDC	wfghjgf	sgfhfdghj	Magadh A	12322	ghmgjhgj	
8	2021-07-2	OPEN	None	abc123	Safety Dep	jhfdsdrfv	yugjdfgda	Konkan Er	W042	ghfdfgasdrf	
9											
10											

Figure 12. Excel Report

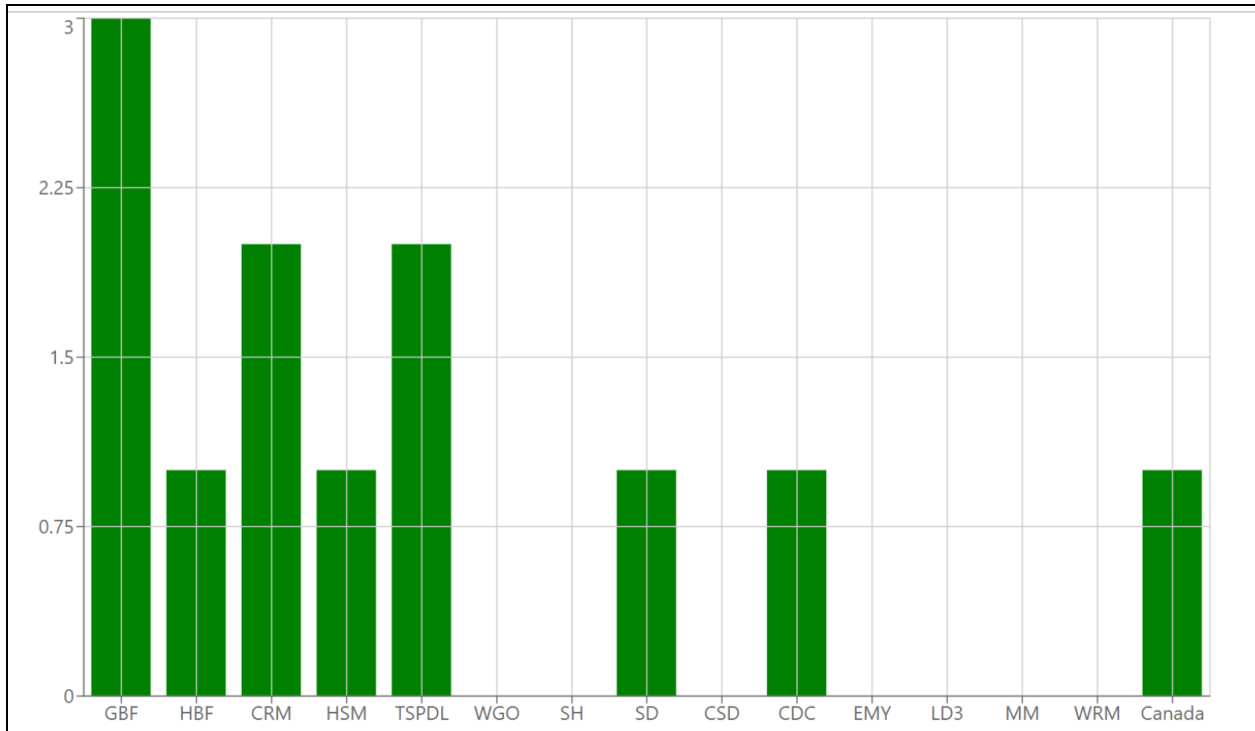


Figure 13. Analysis Chart A

Overall Analysis

1. The green ring suggests the number of complaints distributed across various departments.
2. The inner ring gives the count for the number of open complaints to the closed one.



Figure 14. Analysis Chart B

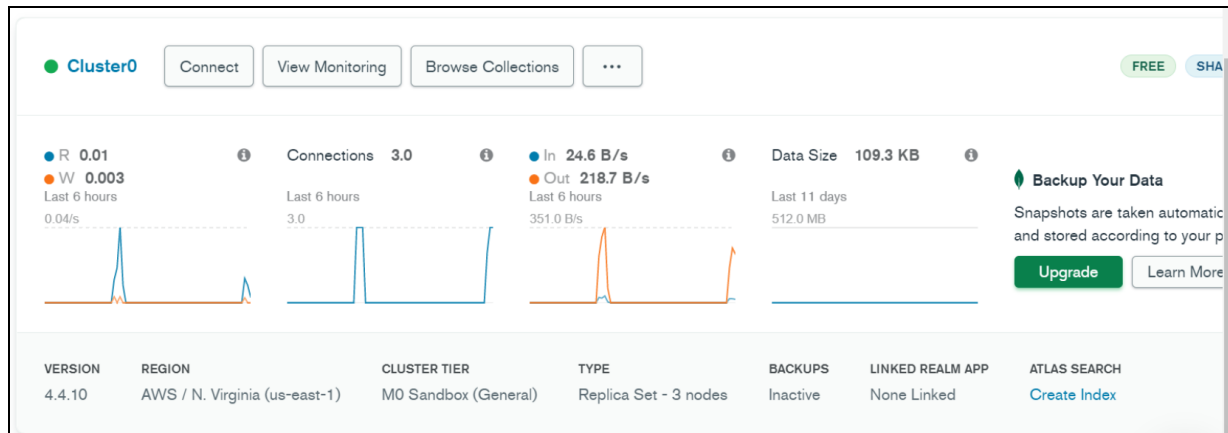


Figure 15. Cloud Database (MongoDB Atlas)

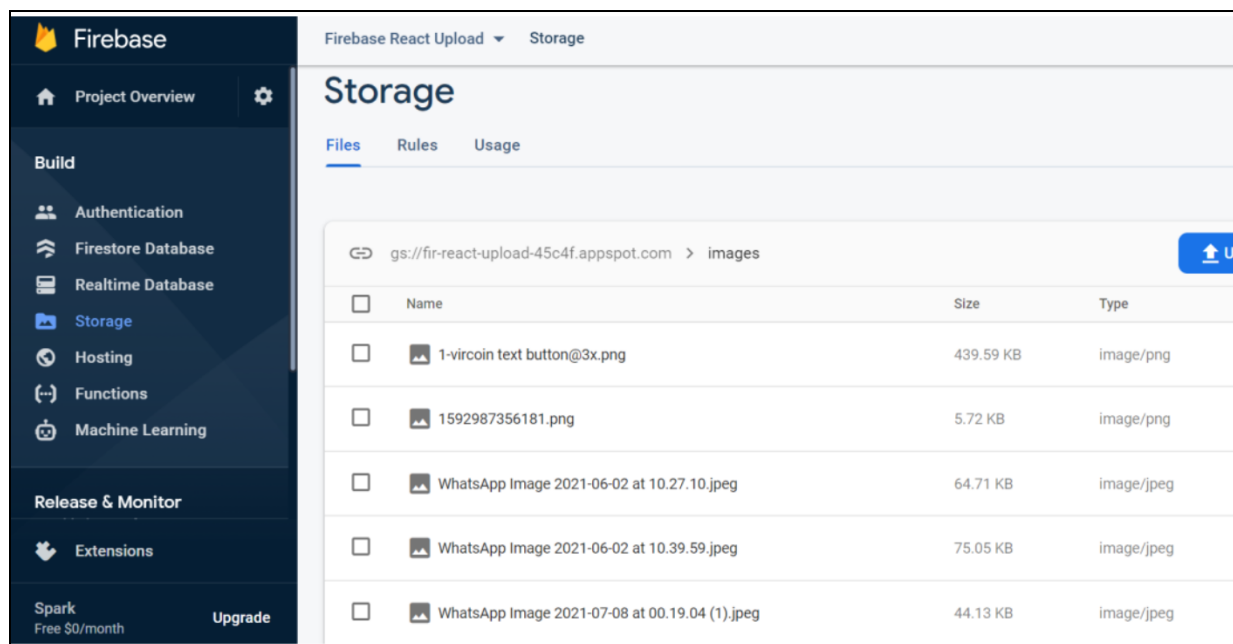


Figure 16. Cloud File Storage (Firestore)