

IWT ASSIGNMENT-1

(ByTeam-9)

PS3: Develop a web application which performs all the activities of Google form?

Developed by :

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Acknowledgements :

We would like to express our special thanks to our IWT sir who gave us this golden opportunity to do this assignment to prepare a web app of google forms, which helped us in doing a lot of Research and I learned about so many new things.

Abstract:

Google Forms is a web-based app used to create forms for data collection purposes. Students and teachers can use Google Forms to make surveys, quizzes, or event registration sheets. Teachers can easily conduct tests for their students using this tool-after all the students have taken the test, the teacher can take the test attempting ALL the questions with correct answers. Use Google Forms to collect any amount of data for a wide variety of purposes. It may be to assess knowledge prior to beginning a unit, plan a field trip, collect contact information, whip up a quick poll, collect email addresses for a newsletter, and more. Teachers can use forms for a variety of productivity tasks. Teachers can collaborate with their co-workers at the same time to build surveys in working with their teams or departments. Forms can be used for lesson planning, professional development planning or surveys, and assessment forms.

Objectives of the project :

- i) Create Surveys to Meet Curriculum Objectives
- ii) Ask Various Types of Questions
- iii) Get responses from the user to analyze and process the data
- iv) To make surveys that collect information for an organization
- v) Apply Validation Options to Control Data Entry

Technologies Used:

Frontend : React, Tailwind CSS

Backend : Firebase and Node

Target Audience :

- 1) Students
- 2) Teachers

3)Work Employees

4)Organizations,firms and small scale businesses

Introduction :

Google Forms is an online data collection tool. It can be used to collect survey responses, or to automatically mark multiple choice tests and quizzes. It is capable of branching questions paths, allowing for the answer to one question to drive the next line of questioning.

As with any powerful tool, it can be somewhat complex. By approaching the program through this step-by-step tutorial you will find yourself both familiarized, and ready to approach everything that Google Forms has to offer.

Basic Features of a google form :

- 1.CREATE NEW FORM
- 2.ADDITIONAL MENUS
- 3.RECENTLY ACCESSED FORMS
- 4.CREATE A NEW FORM
- 5.PREVIEW
- 6.SHARE URL BUTTON
- 7.QUESTION OPTIONS
- 8.QUESTION TYPE
- 9.DELETE QUESTION
- 10.FILLING A FORM AND SUBMITTING

GitHub repository :

https://github.com/vishnusathwik/iwt_assignment_T9_googleformclone

Instructions for running the app:

If you've cloned this repository, open in terminal and typing in your terminal with command :

npm install

npm install craco

Note:

make sure your computer has Node JS 16.15.1 installed.

to view the forms we created please use the following login details in the web app or register and create a new form :

email : saketh1@gmail.com

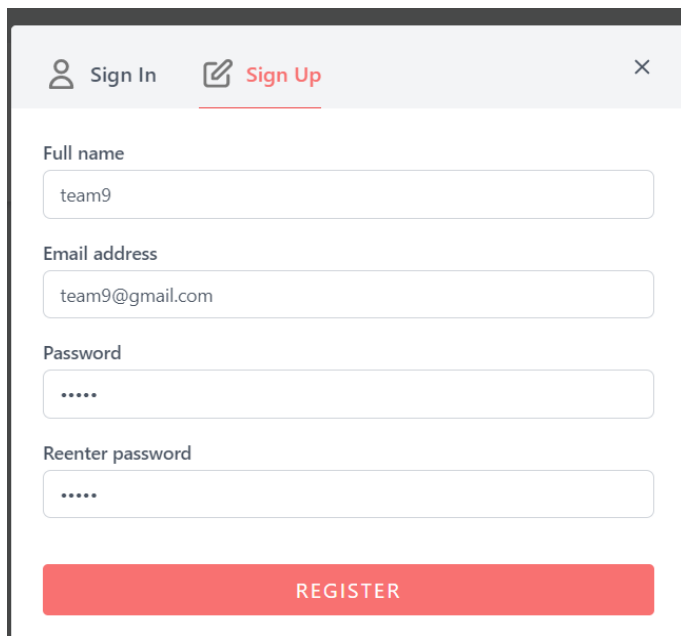
pwd : saketh

For running :

npm run start

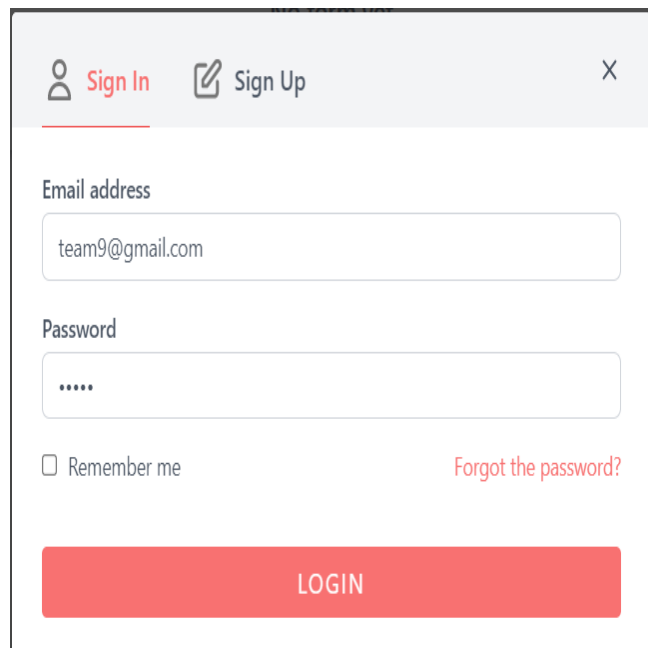
Output Screenshots :

Register page :



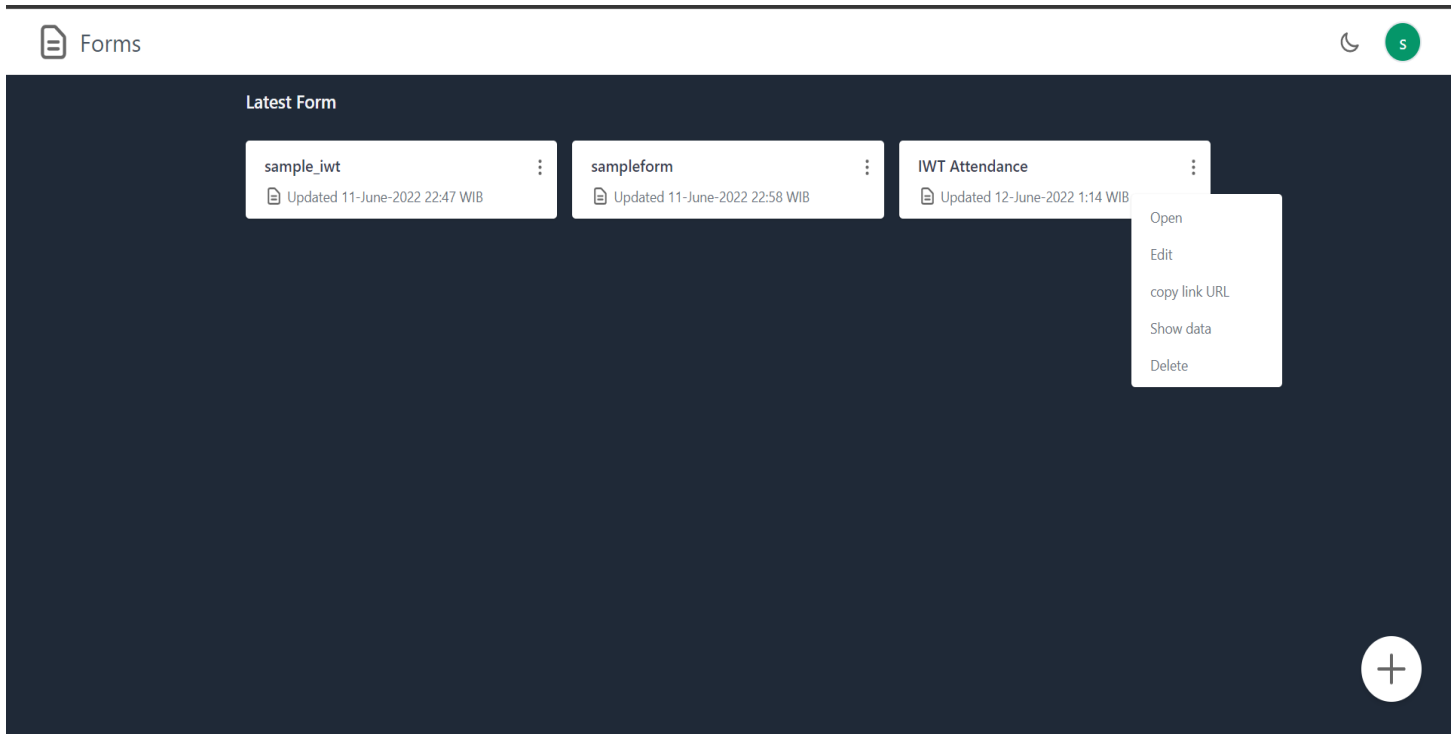
The Register page features a light gray header with a 'Sign In' link (person icon) and a 'Sign Up' link (pencil icon) underlined in red. A close button (X) is in the top right. The form contains four input fields: 'Full name' (with 'team9'), 'Email address' (with 'team9@gmail.com'), 'Password' (with masked dots), and 'Reenter password' (with masked dots). A large red 'REGISTER' button is at the bottom.

Login page :



The Login page features a light gray header with a 'Sign In' link (person icon) underlined in red and a 'Sign Up' link (pencil icon). A close button (X) is in the top right. The form contains two input fields: 'Email address' (with 'team9@gmail.com') and 'Password' (with masked dots). Below the password field is a 'Remember me' checkbox and a 'Forgot the password?' link in red. A large red 'LOGIN' button is at the bottom.

Home page : Ui after login



The screenshot shows the 'Forms' section of the application. At the top, there is a header with a document icon and the word 'Forms'. On the right, there is a dark green circle with a white 'S' and a moon icon. Below the header, the main area is dark blue. At the top left of this area, it says 'Latest Form'. There are three white cards representing forms: 'sample_iwt' (Updated 11-June-2022 22:47 WIB), 'sampleform' (Updated 11-June-2022 22:58 WIB), and 'IWT Attendance' (Updated 12-June-2022 1:14 WIB). A context menu is open over the 'IWT Attendance' card, showing options: 'Open', 'Edit', 'copy link URL', 'Show data', and 'Delete'. At the bottom right, there is a white circle with a plus sign.

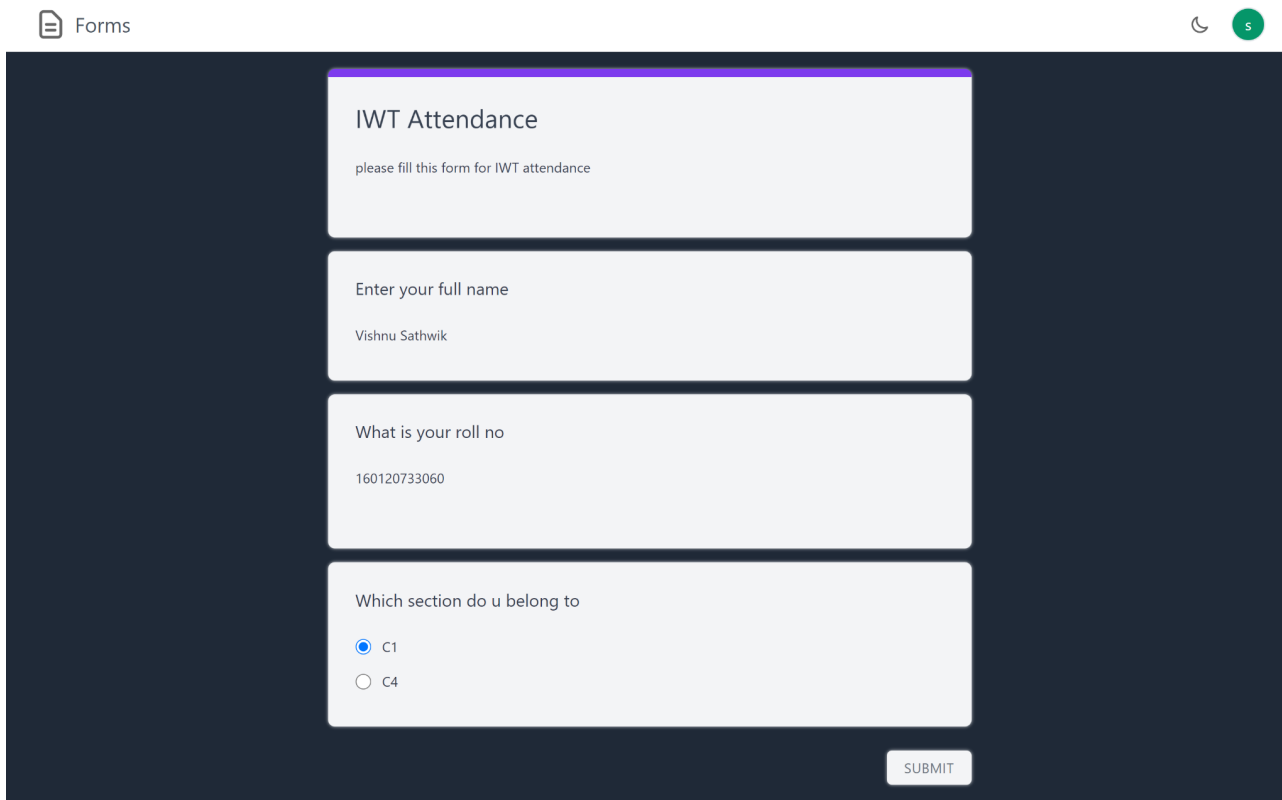
Form viewing and filling :

this is the page that is displayed after clicking on Open form or using the form URL, here we fill the form and submit it to store responses in the DB.

localhost:3000 says

The data you have entered has been successfully recorded

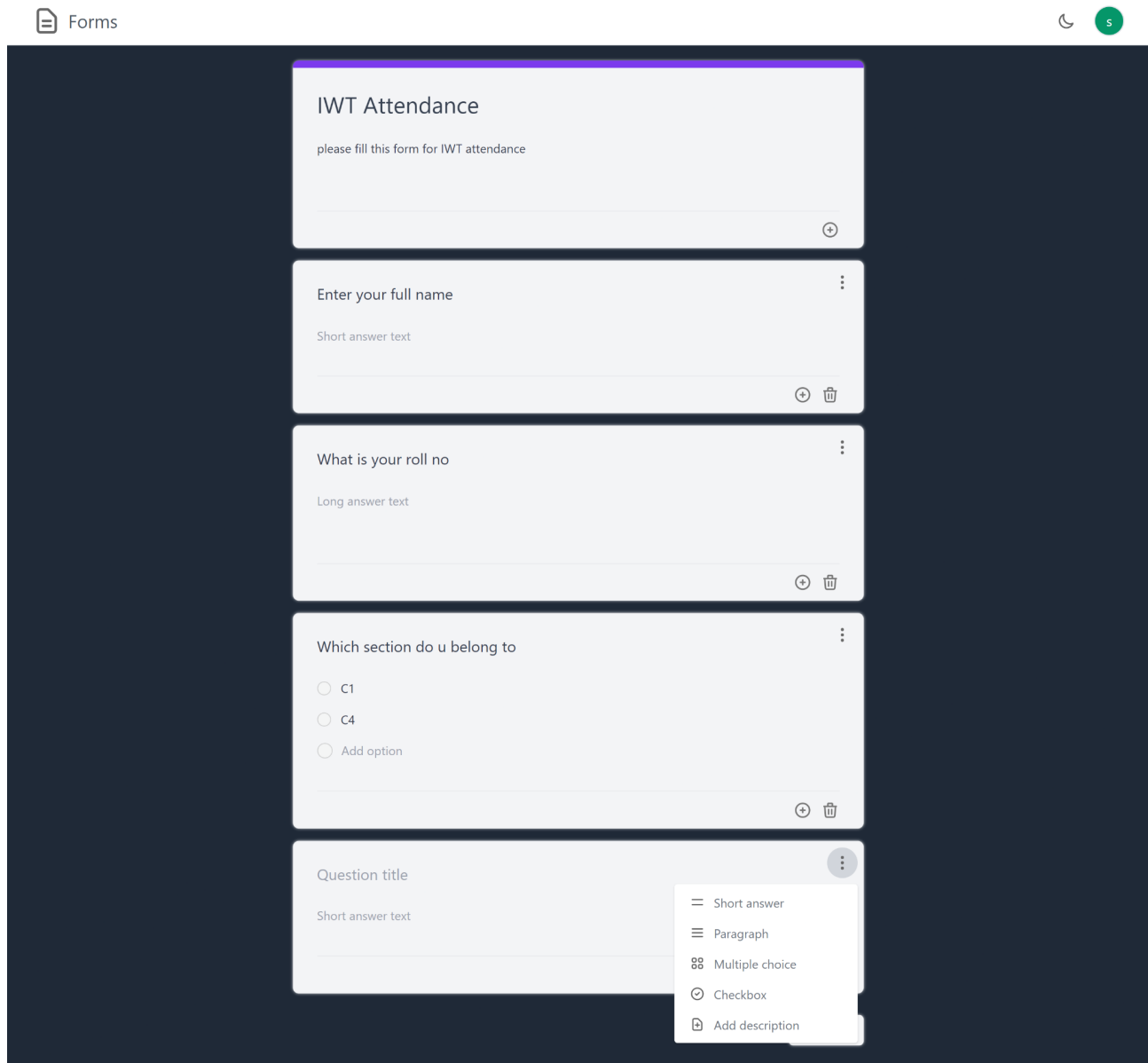
OK



The screenshot shows the 'IWT Attendance' form. At the top, there is a header with a document icon and the word 'Forms'. On the right, there is a dark green circle with a white 'S' and a moon icon. Below the header, the main area is dark blue. The form is a white card with a purple border. It has the title 'IWT Attendance' and a subtitle 'please fill this form for IWT attendance'. There are three input fields: 'Enter your full name' (with the value 'Vishnu Sathwik'), 'What is your roll no' (with the value '160120733060'), and 'Which section do u belong to' (with radio buttons for 'C1' and 'C4', where 'C1' is selected). At the bottom right, there is a 'SUBMIT' button.

Creating a form :

Click on + button on bottom right to create a new form and fill the details



The screenshot shows a form builder interface with a dark blue background. At the top left, there is a 'Forms' tab icon. At the top right, there is a moon icon and a green circle with the number '5'. The form itself is titled 'IWT Attendance' and has a subtitle 'please fill this form for IWT attendance'. It contains five questions:

- Question 1: 'Enter your full name' (Short answer text)
- Question 2: 'What is your roll no' (Long answer text)
- Question 3: 'Which section do u belong to' (Multiple choice with options C1, C4, and Add option)
- Question 4: 'Question title' (Short answer text)
- Question 5: A dropdown menu with options: Short answer, Paragraph, Multiple choice, Checkbox, and Add description.

We can add as many questions to our form as we want from a wide range of questions like short answer, paragraphs, multiple choice, checkbox and we can also add a description to the question if we'd like to

Click on the submit button after finishing creating the form to display the form card on the dashboard and we can edit the form, copy the form URL from the dashboard and another user can fill the form we have created with this URL and we can also display all the contents of the form.

Database Design :

Our firebase

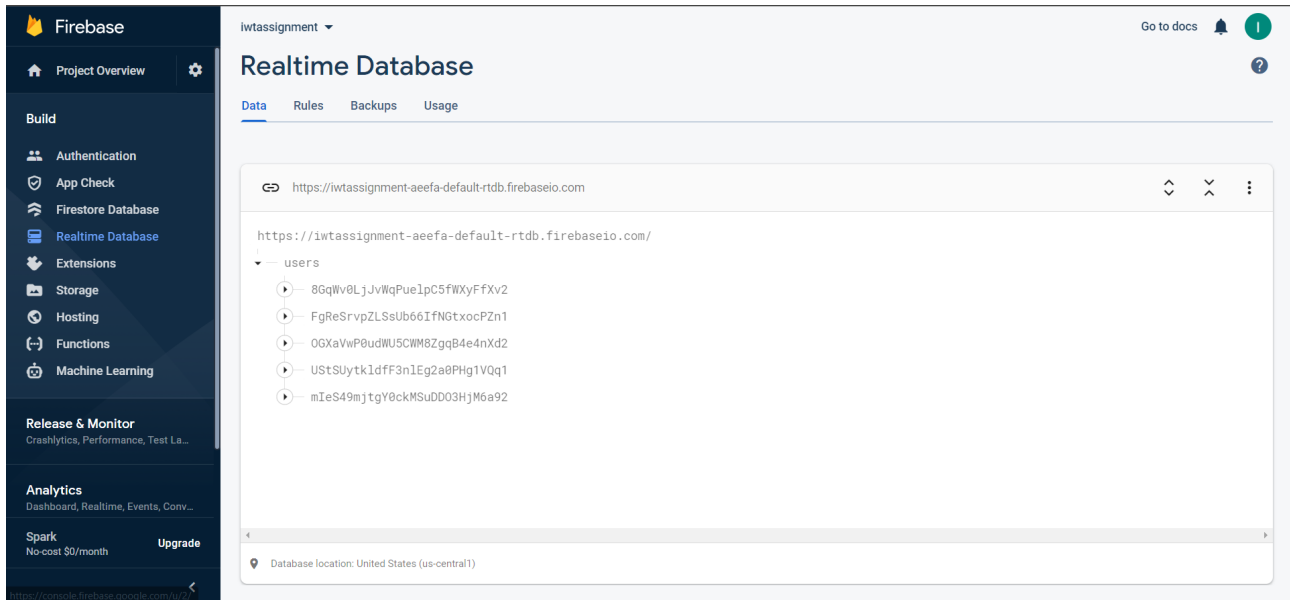
database: <https://iwtassignment-aeefa-default-rtdb.firebaseio.com/>

gmail id to access it : team9formsapp@gmail.com

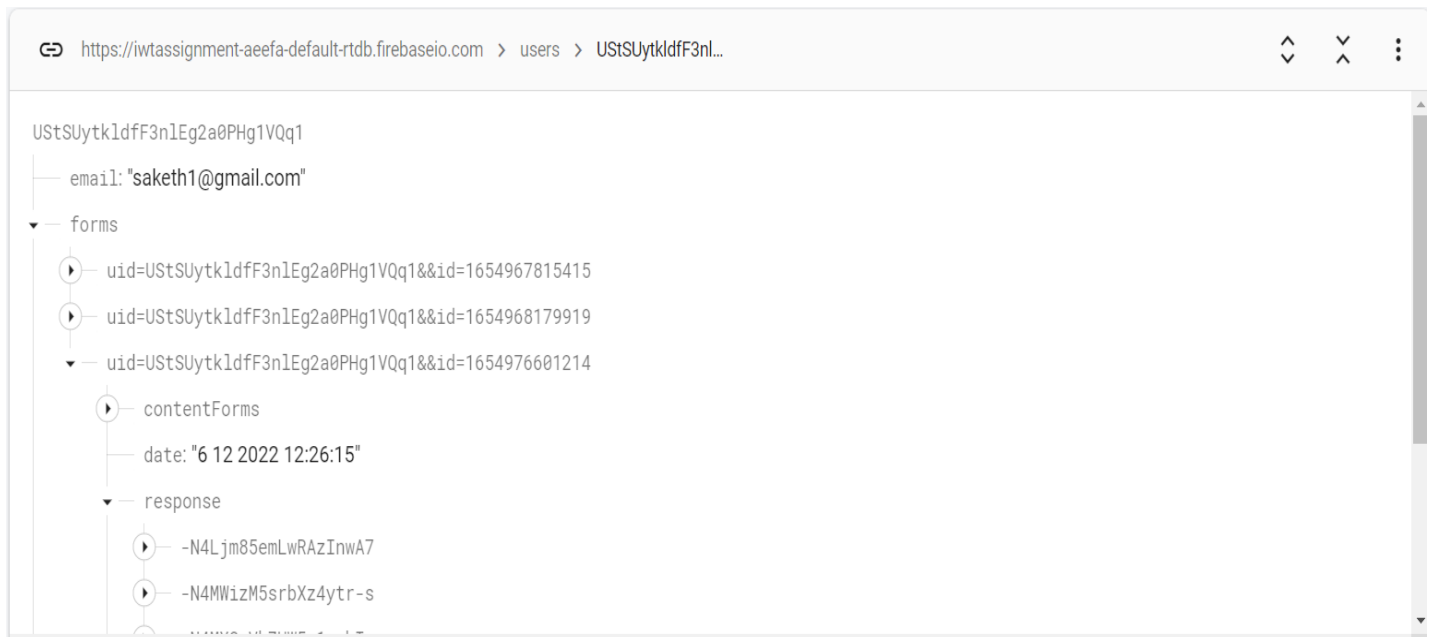
pwd : Team9@formsapp

We are using firebase database as a backend to store real time data in our project

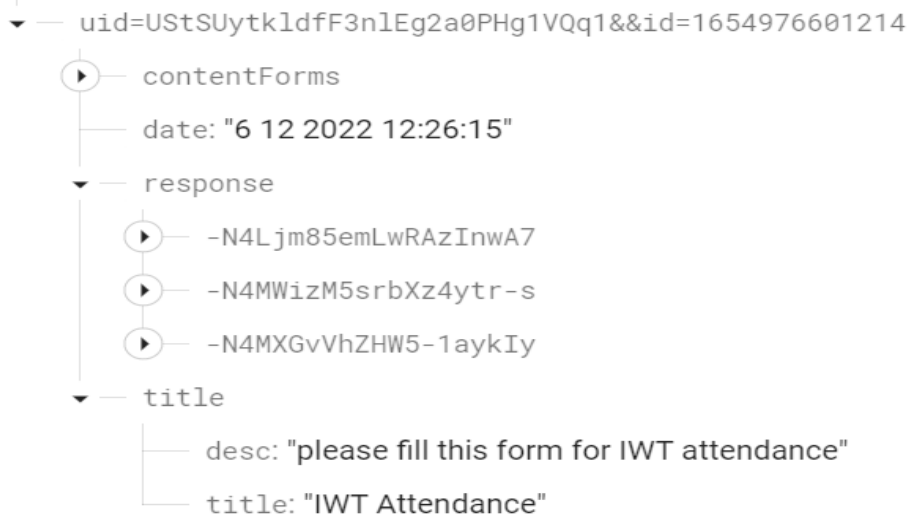
these are the users registered in our app :



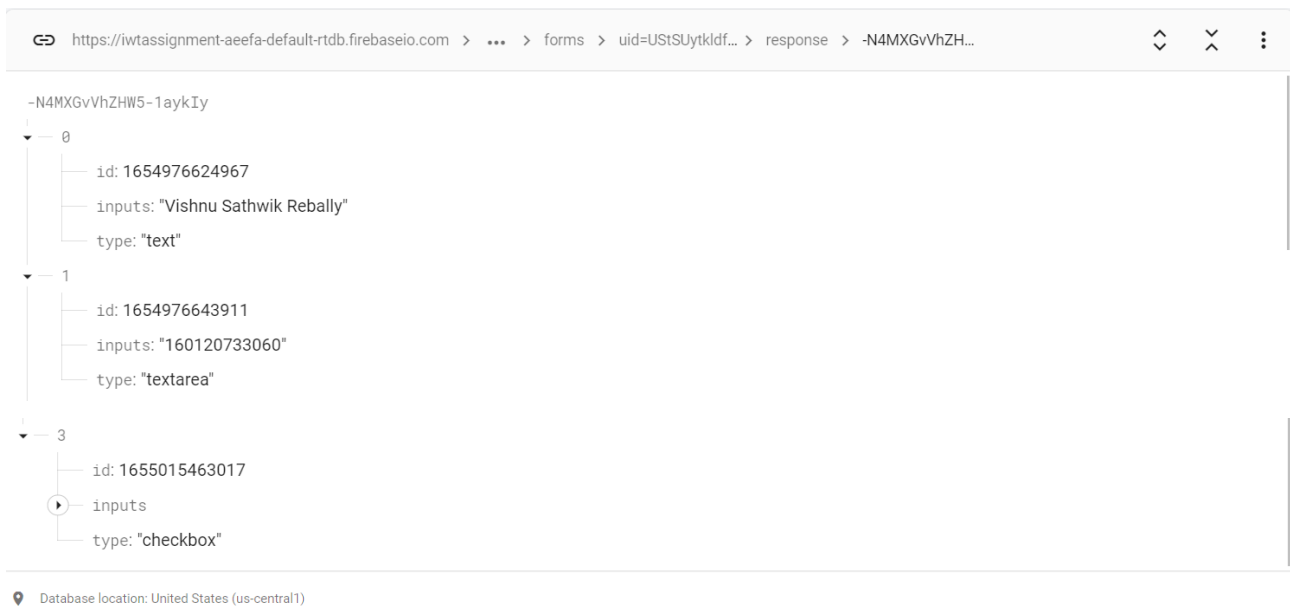
now lets see the forms created by the user saketh1 for eg:



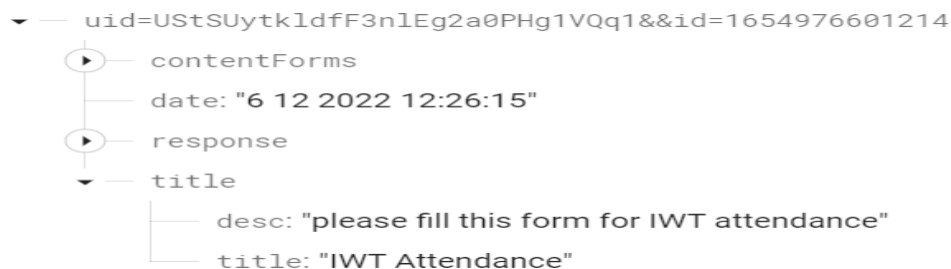
We can see the responses submitted by others to this form :



The responses entered are stored in the database as follows :



The title and description of the form are stored as follows under each form id:



The authentication details of the users :

Search by email address, phone number, or user UID					Add user	↺	⋮
Identifier	Providers	Created ↓	Signed In	User UID			
kishore@gmail.com	✉	Jun 12, 2022	Jun 12, 2022	FgReSrvpZLSsUb66lfNGtxocPZn1			
vamshi@gmail.com	✉	Jun 12, 2022	Jun 12, 2022	8GqWv0LjJvWqPuelpC5fWXyFfXv2			
team9@gmail.com	✉	Jun 12, 2022	Jun 12, 2022	mleS49mjtgyY0ckMSuDDO3HjM6a...			
vishnu@gmail.com	✉	Jun 11, 2022	Jun 12, 2022	OGXaVwP0udWU5CWM8ZgqB4e4...			
saketh1@gmail.com	✉	Jun 11, 2022	Jun 12, 2022	UStSUytkldfF3nlEg2a0PHg1VQq1			

Future Scope of the project :

- i) Auto send google forms
- ii) To save the form and continue later
- iii) Scheduling a google form to end.
- iv) Sending a copy of responses to the user
- v) The ability to create interactive quizzes and add images and gifs into questions
- vi) develop a grading system with each response from the user awarding them a score

Conclusion :

The Google Forms clone is an extremely powerful tool capable of creating the most complex surveys and making it easy and user-friendly to fill a form with a just the URL after logged in. This means you can collaborate with others on creating your surveys, or share the finished product with select people, and then use a database to store the data and analyze the data for future reference.

This app is very much helpful to teachers, students and many small scale businesses who cannot afford high end data survey platforms.

References :

- 1) <http://forms.google.com/>
- 2) <https://reactjs.org/docs/react-without-es6.html> documentation
- 3) <https://firebase.google.com/docs> documentation