

Week 11 Blog

This week I worked for implementing the functionality , which allows only Covid-19 positive users to upload their TEKs. Till now, every user who clicked the submit button could submit there TEKs, which is a big security risk and can also cause false positives.

My Pull request- <https://github.cs.adelaide.edu.au/2020-Mobile-and-Wireless-Systems/CovidGuard-F/pull/77>

The two APIs used for doing it are:-

- 1) Admin Set Diagnosis Status (Post type) – To change the health status of the patient
- 2) Get Patient Status (Get type) – To fetch the current status of the user on the API call.

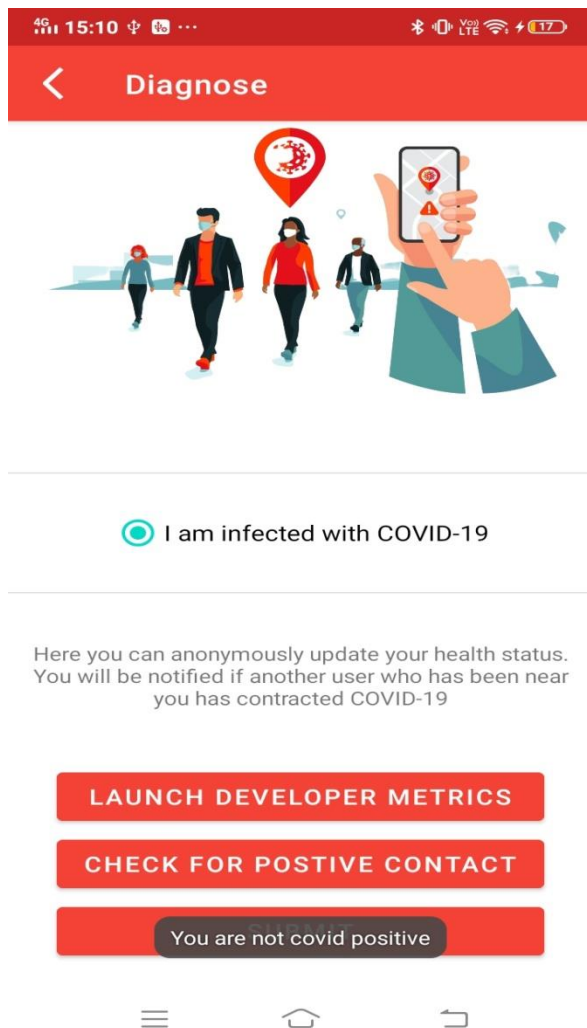
Screenshots to show how the functionality works-

- 1) If the user is not Covid positive

Boolean variable currentstatus which is false by default stays false,

Toast message is displayed to notify users that they are not allowed to submit there TEKs.

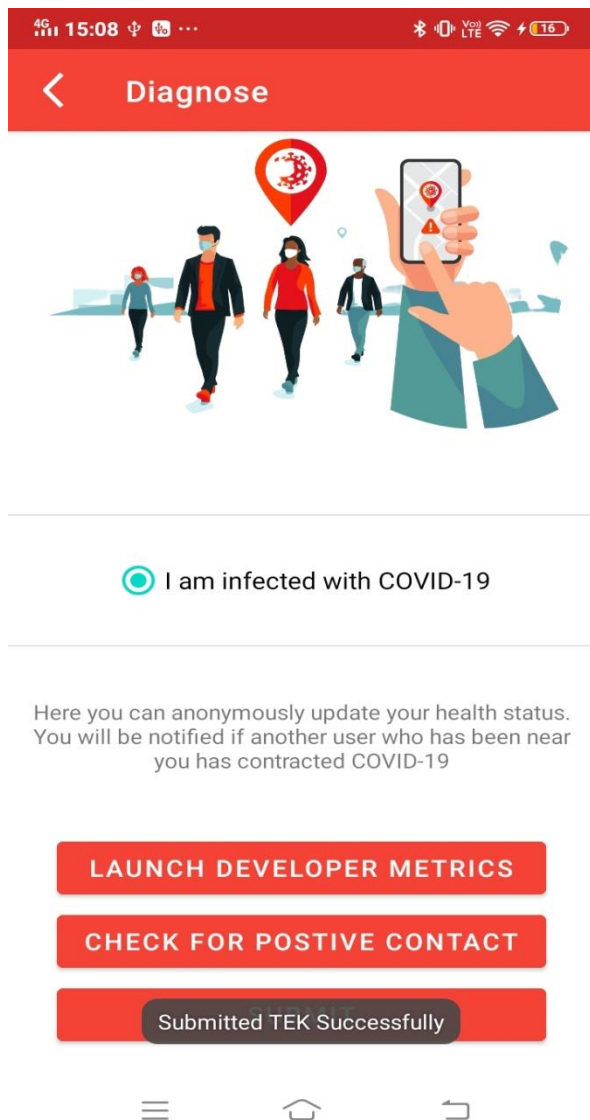
If the patient gets positive later, his health status will be changed by the “Admin Set Diagnosis Status “ API and then “ Get Patient Status “ API will return “is-positive” field as true and the Boolean variable will change to true , allowing submit button to work normally.



2) If the user is positive

This is the JSON object of Get Patient Status API for a covid positive user

```
{"profile":{"created_at":"2020-10-10T06:23:16.281000+00:00","id":"clAnNsb2K4jASKfG8ukZ","is_positive":true,"is_recovered":false,"key":"patient/clAnNsb2K4jASKfG8ukZ","positive_at":"2020-10-25T08:39:34.187083+00:00","recovered_at":null,"uid":"77b223d5a5104b4aa2f4928109a2cb36"},"success":true}
```



User is allowed to submit TEKs as the API call returns a positive value for the “is positive” field.

Benefits of this functionality:-

- 1) Only TEKs of positive users are required for contact –tracing so this will stop false positive cases
- 2) As less storage will be used, the app will become more quick and robust
- 3) As the APIs are concerned will current status of the users, it will tackle the cases of patients who have recovered after becoming positive as well.

Plan for Next Week

- 1) Continue working on consent flow
- 2) Contribute to testing of the app
- 3) Start the work on demo, poster and video for 6th november