

CSE 230 MOBILE PROGRAMMING

PROJECT REPORT

COVAC (COVID VACCINE FINDER APP)

OUR TEAM

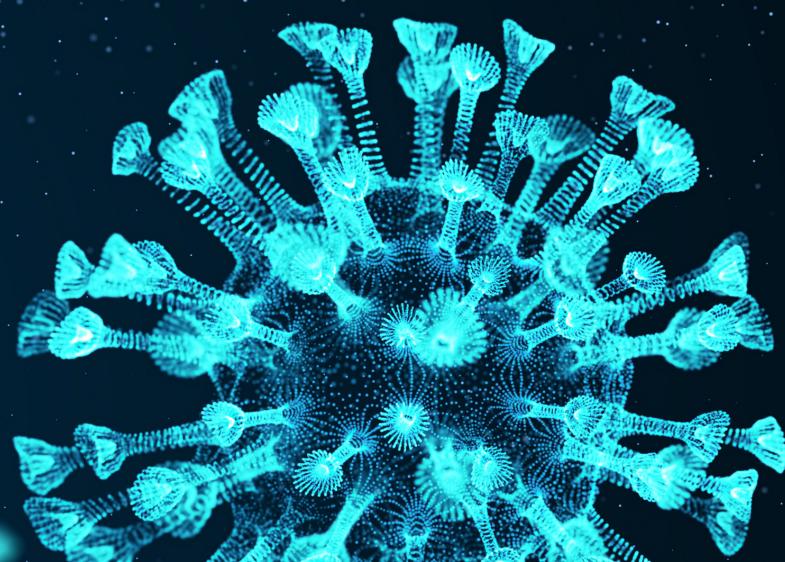
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INTRODUCTION

The present times have caused lot of mishap amidst the pandemic in the lives of all the people. Hence, it is essential to get vaccinated to reduce the covid spread and avoid misconceived information regarding the vaccine drive.

Modern problems require smarter solutions. Covac meets with all these problems and offers guidelines, emergency contacts and a dashboard that contains daily covid updates and slot availability for vaccination based on the location.

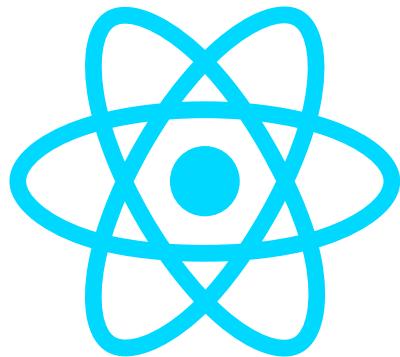


ABSTRACT

An interactive dashboard with realtime tracking system to find the availability of COVID vaccine and registration, and verified safety covid guidelines.

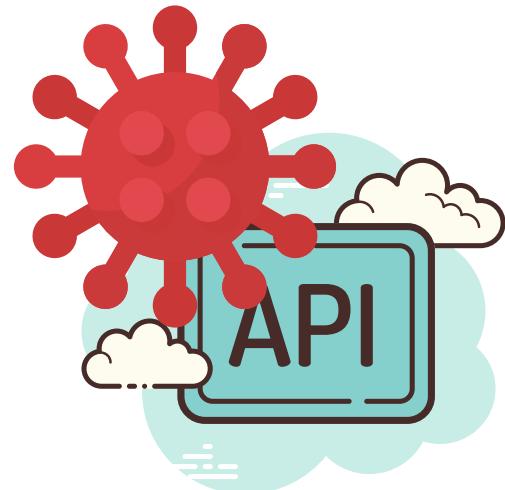
The app consists of features that allow user to view common facts and FAQS about covid , safety measures, helpline and daily live updates on covid statitistics, filtering sytem that sorts list of venues based on state , district and date selection with detailed info about dosage capacity, type of vaccine available, min age limit offered for vaccine and so on.

The user can also maintain their profile and edit details accordingly like photo upload, update name, email, age etc.



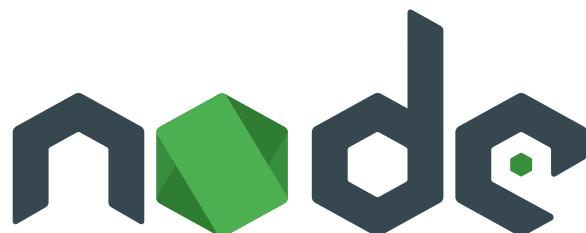
REACT NATIVE

FRONTEND FRAMEWORK



COWIN API

API END POINT



NODE JS

BUSINESS LOGIC LAYER

TECHNOLOGY

APP.JS

```
● ● ●  
1 import React from 'react';  
2 import Navigator from './src/Navigator'  
3  
4  
5 const App= () =>{  
6   return <Navigator/>  
7 };  
8  
9  
10 export default App;  
11
```

NAVIGATOR.JS

```
import React, {useState, useEffect} from 'react';
import {NavigationContainer} from '@react-navigation/native';
import {createStackNavigator} from '@react-navigation/stack';
import {createDrawerNavigator} from '@react-navigation/drawer';
import {View} from 'react-native';

import Login from './screens/auth/Login';
import Signup from './screens/auth/Signup';
import Home from './screens/Home';

import Profile from './screens/Profile';
import Dashboard from './screens/Dashboard';
import Guide from './screens/guidelines';
import Emergency from './screens/emergency';
import ViewDetails from './screens/ViewDetails';

import Header from './screens/components/header';

import AsyncStorage from '@react-native-async-storage/async-storage';
import Spinner from 'react-native-loading-spinner-overlay';

const Stack = createStackNavigator();
const Drawer = createDrawerNavigator();

const screenOptions = {
  headerShown: false,
};

const AuthStack = () => {
  return (
    <Stack.Navigator screenOptions={screenOptions}>
      <Stack.Screen name="home" component={Home} />
      <Stack.Screen name="login" component={Login} />
      <Stack.Screen name="signup" component={Signup} />
    </Stack.Navigator>
  );
};

const GuideStack = () => {
  return (
    <Stack.Navigator>
      <Stack.Screen
        name="guide"
        component={Guide}
        options={({navigation}) => {
          return {
            header: () => <Header navigation={navigation} title="COVAC" />,
          };
        }}
      </Stack.Screen>
    </Stack.Navigator>
  );
};
```

NAVIGATOR.JS

```
        )}
      />
    </Stack.Navigator>
  );
};

const ProfileStack = () => {
  return (
    <Stack.Navigator>
      <Stack.Screen
        name="profile"
        component={Profile}
        options={({navigation}) => {
          return {
            header: () => <Header navigation={navigation} title="COVAC" />,
          };
        }}
      />
    </Stack.Navigator>
  );
};

const DashboardStack = () => {
  return (
    <Stack.Navigator>
      <Stack.Screen
        name="Dashboard"
        component={Dashboard}
        options={({navigation}) => {
          return {
            header: () => <Header navigation={navigation} title="COVAC" />,
          };
        }}
      />
      <Stack.Screen
        name="viewDetails"
        component={ViewDetails}
        options={({navigation}) => {
          return {
            header: () => <Header navigation={navigation} title="COVAC" />,
          };
        }}
      />
    </Stack.Navigator>
  );
};

const EmergencyStack = () => {
  return (
```

NAVIGATOR.JS

```
<Stack.Navigator>
  <Stack.Screen
    name="Emergency"
    component={Emergency}
    options={({navigation}) => {
      return {
        header: () => <Header navigation={navigation} title="COVAC" />,
      };
    }}
  />
</Stack.Navigator>
);
};

const PageDrawer = () => {
  return (
    <Drawer.Navigator>
      <Drawer.Screen name="Guide" component={GuideStack} />
      <Drawer.Screen name="Dashboard" component={DashboardStack} />
      <Drawer.Screen name="Profile" component={ProfileStack} />
      <Drawer.Screen name="Emergency" component={EmergencyStack} />
    </Drawer.Navigator>
  );
};

export const Navigator = () => {
  const [authState, setAuthState] = useState(false);
  const [loading, setLoading] = useState(true);
  useEffect(() => {
    AsyncStorage.getItem('authState')
      .then((res) => res)
      .then((res) => {
        // console.log(res);
        if (res == 'authenticated') {
          setAuthState(true);
        } else {
          setAuthState(false);
        }
        setLoading(false);
      });
  }, []);
}

if (!loading) {
  return (
    <NavigationContainer>
      {authState ? (
        <Stack.Navigator screenOptions={{headerShown: false}}>
          <Stack.Screen name="Page" children={PageDrawer} />
        </Stack.Navigator>
      ) : (
        <Stack.Navigator screenOptions={{headerShown: false}}>
          <Stack.Screen name="Auth" component={AuthStack} />
        </Stack.Navigator>
      )}
    </NavigationContainer>
  );
}
```

NAVIGATOR.JS

```
<Stack.Screen name="Auth" component={AuthStack} />
</Stack.Navigator>
) : (
<Stack.Navigator screenOptions={{headerShown: false}}>
<Stack.Screen name="Auth" component={AuthStack} />
<Stack.Screen name="Page" children={PageDrawer} />
</Stack.Navigator>
)}
</NavigationContainer>
);
} else {
return (
<View
style={{
flexDirection: 'row',
justifyContent: 'center',
alignItems: 'center',
}}>
<Spinner
visible={loading}
// textContent={'Loading...'}
// textStyle={{color: colors.text}}
// overlayColor={colors.background}
// cancelable={false}
// color={colors.text}
animation="fade"
/>
</View>
);
}
};

export default Navigator;
```

HOME.JS

```
import React, {useState} from 'react';
import {
  View,
  Image,
  Text,
  ImageBackground,
  FlatList,
  Dimensions,
  TouchableOpacity,
  StyleSheet,
} from 'react-native';
import CenterImg from '../images/doctornurse.png';
import CenterImg2 from '../images/twoaunties.png';
import BG from '../images/imagesmall.png';

const window_width = Dimensions.get('window').width - 40;

const styles = StyleSheet.create({
  button: {
    padding: 10,
    backgroundColor: '#1133aa',
    width: 100,
    alignSelf: 'center',
    marginVertical: 30,
    borderRadius: 5,
  },
  center: {
    color: 'white',
    textAlign: 'center',
    fontWeight: 'bold',
  },
  titleContainer: {
    width: '100%',
    height: 80,
    resizeMode: 'cover',
    borderBottomLeftRadius: 0,
    borderBottomRightRadius: 0,
    flexDirection: 'row',
    alignItems: 'center',
    elevation: 6,
    shadowColor: '#000',
    shadowOffset: {width: 0, height: 1},
    shadowOpacity: 0.8,
    shadowRadius: 1,
  },
});
const Home = ({navigation}) => {
```

HOME.JS

```
const [sliderState, setSliderState] = useState(true);

const buttons = [
  <View
    style={{
      flexDirection: 'row',
      justifyContent: 'center',
      alignItems: 'center',
      width: window_width,
    }}>
    <View
      style={{
        borderRadius: 50,
        height: 10,
        width: 10,
        backgroundColor: '#8ac',
        marginHorizontal: 5,
        marginVertical: 5,
      }}></View>
    <View
      style={{
        borderRadius: 50,
        height: 10,
        width: 10,
        backgroundColor: '#ace',
        marginHorizontal: 5,
        marginVertical: 5,
      }}></View>
  </View>,
  <View
    style={{
      flexDirection: 'row',
      justifyContent: 'center',
      alignItems: 'center',
      width: window_width,
    }}>
    <View
      style={{
        borderRadius: 50,
        height: 10,
        width: 10,
        backgroundColor: '#ace',
        marginHorizontal: 5,
        marginVertical: 5,
      }}></View>
    <View
      style={{


```

HOME.JS

```
        style={{color: '#113344', fontWeight: 'bold', textAlign: 'center'}}  
}>  
    OR  
</Text>  
<TouchableOpacity  
    onPress={() => navigation.navigate('signup')}  
    style={styles.button}>  
    <Text style={styles.center}>Signup</Text>  
</TouchableOpacity>  
    </View>  
    </View>  
</View>  
);  
);  
  
export default Home;
```

LOGIN.JS

```
import React, {useState, useEffect} from 'react';
import {
  View,
  Text,
  TouchableOpacity,
  StyleSheet,
  TextInput,
  ImageBackground,
} from 'react-native';

import AsyncStorage from '@react-native-async-storage/async-storage';

import BG from '../../../../../images/image.png';
import axios from 'axios';

const styles = StyleSheet.create({
  container: {
    flex: 1,
    flexDirection: 'column',
  },
  titleContainer: {
    width: '100%',
    height: 300,
    resizeMode: 'cover',
  },
  center: {
    color: 'white',
    textAlign: 'center',
  },
  input: {
    backgroundColor: '#e5e5e5',
    marginVertical: 6,
    paddingHorizontal: 10,
    marginHorizontal: 40,
    borderRadius: 5,
  },
  redirect: {
    flexDirection: 'row',
    justifyContent: 'center',
  },
  button: {
    padding: 10,
    backgroundColor: '#1133aa',
    width: 100,
    alignSelf: 'center',
    marginVertical: 30,
    borderRadius: 5,
  },
});
```

LOGIN.JS

```
});

const Login = ({navigation}) => {
  const [state, setState] = useState({username: '', password: ''});

  const handleSubmit = () => {
    axios
      .post(
        'https://identitytoolkit.googleapis.com/v1/accountssignInWithPassword?key=AIzaSyBDYsd7spbSDvdO_ec1V8iH_iAqEa1LS4Q',
        {
          email: state.username,
          password: state.password,
          returnSecureToken: true,
        },
      )
      .then((res) => {
        AsyncStorage.setItem('authCredentials', res.data);
        AsyncStorage.setItem('authState', 'authenticated')
        .then(() => {
          console.log('Authstate not null');
        })
        .catch((err) => {
          // alert(err);
        });
        navigation.reset({
          key: null,
          index: 0,
          routes: [{name: 'Page'}],
        });
      })
      .catch((err) => {
        // alert(err);
      });
    setState({username: '', password: ''});
  };

  return (
    <View style={styles.container}>
      <ImageBackground
        source={BG}
        style={styles.titleContainer}></ImageBackground>
      <View>
        <Text
          style={{
            color: '#1133aa',
            paddingHorizontal: 40,
```

LOGIN.JS

```
paddingVertical: 20,
fontSize: 30,
fontWeight: 'bold',
})>
Login
</Text>
<TextInput
placeholder="Email"
style={styles.input}
onChangeText={(text) =>
setState({
...state,
username: text,
})
}
value={state.username}
/>
<TextInput
placeholder="Password"
style={styles.input}
secureTextEntry={true}
onChangeText={(text) =>
setState({
...state,
password: text,
})
}
value={state.password}
/>

<TouchableOpacity style={styles.button} onPress={() => handleSubmit()}>
<Text style={styles.center}>Login</Text>
</TouchableOpacity>

<View style={styles.redirect}>
<Text>Want to join us ! </Text>
<TouchableOpacity onPress={() => navigation.navigate('signup')}>
<Text style={{color: '#1133aa'}}>Signup</Text>
</TouchableOpacity>
</View>
</View>
);
};

export default Login;
```

HEADER.JS

```
import React from 'react';
import {
  StyleSheet,
  Text,
  View,
  Image,
  ImageBackground,
  TouchableOpacity,
} from 'react-native';
import Ham from '../../images/ham.png';

import { DrawerActions } from '@react-navigation/native';

export default function Header({navigation, title}) {
  const openMenu = () => {
    navigation.dispatch(DrawerActions.toggleDrawer());
  };

  return (
    <ImageBackground
      source={require('../../images/imagesmall.png')}
      style={styles.header}>
      <View style={styles.headerContainer}>
        <TouchableOpacity onPress={openMenu}>
          <Image source={Ham} style={{width: 20, height: 20}} />
        </TouchableOpacity>
        <Text style={styles.headerText}>{title}</Text>
      </View>
    </ImageBackground>
  );
}

const styles = StyleSheet.create({
  header: {
    width: '100%',
    resizeMode: 'cover',
    height: 60,
    elevation:4
  },
  headerContainer: {
    height: 60,
    width: '100%',
    flexDirection: 'row',
    alignItems: 'center',
    paddingHorizontal: 20,
  },
  headerText: {
    fontSize: 20,
    marginLeft: 20,
    fontWeight: 'bold',
    color: 'white',
  },
});
```

SIGNUP.JS

```
import React, {useState} from 'react';
import {
  View,
  Text,
  TouchableOpacity,
  StyleSheet,
  TextInput,
  ImageBackground,
} from 'react-native';
import {firebase} from '../../firebase/config';
import axios from 'axios';
import BG from '../../images/image.png';
import AsyncStorage from '@react-native-async-storage/async-storage';

const styles = StyleSheet.create({
  container: {
    flex: 1,
    flexDirection: 'column',
  },
  titleContainer: {
    width: '100%',
    height: 295,
    resizeMode: 'cover',
  },
  center: {
    color: 'white',
    textAlign: 'center',
  },
  input: {
    backgroundColor: '#e5e5e5',
    marginVertical: 6,
    paddingHorizontal: 10,
    marginHorizontal: 40,
    borderRadius: 5,
  },
  redirect: {
    flexDirection: 'row',
    justifyContent: 'center',
  },
  button: {
    padding: 10,
    backgroundColor: '#1133aa',
    width: 100,
    alignSelf: 'center',
    marginVertical: 30,
    borderRadius: 5,
  },
});
```

SIGNUP.JS

```
const Signup = ({navigation}) => {
  const [state, setState] = useState({username: '', password: '', email: ''});

  const handleSubmit = async () => {
    let tokenAccess;
    let res = await axios.post(
      'https://identitytoolkit.googleapis.com/v1/accounts:signUp?key=AIzaSyBDYsd7spbSDvd0_ec1V8iH_iAqEa1LS4Q',
      {
        email: state.email,
        password: state.password,
        returnSecureToken: true,
      },
    );
    if (res.status == 200) {
      axios
        .post(
          'https://identitytoolkit.googleapis.com/v1/accountssignInWithPassword?key=AIzaSyBDYsd7spbSDvd0_ec1V8iH_iAqEa1LS4Q',
          {
            email: state.email,
            password: state.password,
            returnSecureToken: true,
          },
        )
        .then(() => {
          AsyncStorage.setItem('authState', 'authenticated')
            .then(() => {
              console.log('Successful signed up');
            })
            .catch(() => {});
          AsyncStorage.setItem('user', JSON.stringify(state))
            .then(() => {})
            .catch(() => {});

          navigation.reset({
            key: null,
            index: 0,
            routes: [{name: 'Page'}],
          });
        })
        .catch(() => {});
    }
    setState({username: '', password: '', email: ''});
  };
}

return (
```

SIGNUP.JS

```
<View style={styles.container}>
  <ImageBackground
    source={BG}
    style={styles.titleContainer}></ImageBackground>

  <View>
    <Text
      style={{{
        color: '#1133aa',
        paddingHorizontal: 40,
        paddingVertical: 20,
        fontSize: 30,
        fontWeight: 'bold',
      }}>
      Signup
    </Text>
    <TextInput
      placeholder="Username"
      style={styles.input}
      onChangeText={(text) =>
        setState({
          ...state,
          username: text,
        })
      }
      value={state.username}
    />
    <TextInput
      placeholder="Email"
      style={styles.input}
      onChangeText={(text) =>
        setState({
          ...state,
          email: text,
        })
      }
      value={state.email}
    />
    <TextInput
      placeholder="Password"
      style={styles.input}
      secureTextEntry={true}
      onChangeText={(text) =>
        setState({
          ...state,
          password: text,
        })
      }
    }
```

SIGNUP.JS

```
        value={state.password}
      />

      <TouchableOpacity style={styles.button} onPress={() => handleSubmit()}>
        <Text style={styles.center}>Signup</Text>
      </TouchableOpacity>

      <View style={styles.redirect}>
        <Text>Already a member ! </Text>
        <TouchableOpacity onPress={() => navigation.navigate('login')}>
          <Text style={{color: '#1133aa'}}>Login</Text>
        </TouchableOpacity>
      </View>
    </View>
  );
};

export default Signup;
```

GUIDELINES.JS

```
import {  
  View,  
  Text,  
  StyleSheet,  
  TextInput,  
  Dimensions,  
  Image,  
  TouchableOpacity,  
  FlatList,  
} from 'react-native';  
import React, {Component, useState} from 'react';  
  
const Guidelines = () => {  
  content = [  
    {  
      id: '1',  
      title: 'What to do if someone is sick in your household?',  
      body:  
        "Prepare an isolated room or space for the person and keep them ventilated.",  
        "Monitor the person's symptoms regularly and keep them hydrated, don't panic.",  
        "Try to reduce contact with the sick person and use separate dishes and items for them"  
      img: (  
        <Image  
          source={require('../images/masking.png')}  
          style={{width: 120, height: 120, alignSelf: 'center'}}  
        />  
      ),  
    },  
    {  
      id: '2',  
      title: 'Why do I need to get vaccinated?',  
      body:  
        "Vaccines protect against contagious spread of diseases that have the possibility to become pandemics",  
        "and by continuously vaccinating, it is even possible for diseases to become completely eliminated."  
      img: (  
        <Image  
          source={require('../images/vaccine.jpg')}  
          style={{width: 120, height: 120, alignSelf: 'center'}}  
        />  
      ),  
    },  
    {  
      id: '3',  
      title: 'Masking necessity',  
      body:  
        "1. Masks should be used as part of a comprehensive strategy of measures to suppress transmission and save lives."  
        "2. Several studies have found that people with COVID-19 who never develop symptoms (asymptomatic)"  
        "Wearing a mask helps protect those around you, in case you are asymptomatic."  
        "3. Clean your hands before / after using mask , or whenever you touch it."  
        "4. Make sure it covers both your nose, mouth and chin. Importantly, dont use masks with valves."  
      img: (  
        <Image  
          source={require('../images/mask.png')}  
          style={{width: 120, height: 120, alignSelf: 'center'}}  
        />  
      ),  
    },  
  ]  
};
```

GUIDELINES.JS

```
return (
  <View style={styles.main}>
    <View
      style={{
        backgroundColor: '#003F87',
        borderBottomLeftRadius: 20,
        borderBottomRightRadius: 20,
        elevation: 5,
      }>
      <Text
        style={{
          color: '#23f1ff',
          fontWeight: 'bold',
          fontSize: 20,
          alignSelf: 'center',
          marginVertical: 20,
        }}>
        COVID Safety guidelines
      </Text>
    </View>
    <FlatList
      keyExtractor={(item) => item.id}
      data={content}
      renderItem={({item, index}) => {
        return (
          <TouchableOpacity activeOpacity={0.85}>
            <View style={styles.card}>
              {item.img}
              <Text style={styles.text}>{item.title}</Text>
              <Text style={styles.bodyText}>{item.body}</Text>
            </View>
          </TouchableOpacity>
        );
      }}
    />
  </View>
);
};
```

PROFILE.JS

```
import {
  View,
  Text,
  StyleSheet,
  TextInput,
  Dimensions,
  Image,
  TouchableOpacity,
  ScrollView,
  ImageBackground,
} from 'react-native';
import React, {useState} from 'react';
import ImagePicker from 'react-native-image-crop-picker';
import AsyncStorage from '@react-native-async-storage/async-storage';

const WIDTH = Dimensions.get('window').width;
const HEIGHT = Dimensions.get('window').height;

var flag = 0;
const Profile = ({navigation}) => {
  const male = require('../images/male.png');
  const female = require('../images/femeneine.png');
  const [state, setState] = useState({
    username: 'Robert',
    email: 'robert@gmail.com',
    phoneNum: '',
    age: '',
    gender: 0,
  });
  const [image, setImage] = useState(
    'https://www.gettyimages.com/gi-resources/images/500px/983794168.jpg',
  );
  const [edit, setEdit] = useState(false);

  const Upload = () => {
    ImagePicker.openPicker({
      width: 300,
      height: 400,
      cropping: true,
    })
    .then((image) => {
      setImage(image.path);
      console.log(image);
    })
    .catch((error) => console.log(error));
  };
}
```

```
  const onSave = () => {
    setEdit(!edit);
  };

  return (
    <View
      style={{backgroundColor: 'white', flex: 1, justifyContent: 'flex-start'}>
      <ScrollView style={{flex: 1, marginBottom: 40}}>
        {/* <View style={{ borderColor: "#1464F4", borderTopWidth: 0.5 }} /> */}
      </ScrollView>
      <View
        style={{
          paddingHorizontal: 20,
          backgroundColor: '#1464F4',
          borderBottomLeftRadius: 50,
          borderBottomRightRadius: 50,
          height: HEIGHT * 0.18,
          paddingVertical: 20,
        }}>
        <View
          style={{
            flexDirection: 'row',
            justifyContent: 'space-between',
            alignItems: 'center',
          }}>
          <Text style={{color: '#fefe', fontWeight: '500', paddingTop: 20}}>
            Welcome
          </Text>
          <Text
            style={{color: 'white', fontWeight: 'bold', paddingBottom: 20}}>
            {state.username}
          </Text>
        </View>
        <TouchableOpacity
          onPress={() => {
            AsyncStorage.setItem('authState', 'null');
            navigation.reset({
              key: null,
              index: 0,
              routes: [{name: 'Auth'}],
            });
          }}>
          <Text
            style={{color: '#fefe', fontWeight: '500', paddingTop: 20}}>
```

PROFILE.JS

```

Logout
  </Text>
</TouchableOpacity>
</View>
<View style={styles.backButton}>
  <View
    style={{
      backgroundColor: 'white',
      borderRadius: 10,
      height: 18,
      width: 18,
      marginTop: 18,
      marginLeft: 20,
    }}
  />
  <Text style={styles.backText}>PROFILE</Text>
</View>
<View style={{paddingTop: 20, paddingHorizontal: 20}}>
  <View style={{flexDirection: 'row', justifyContent: 'center'}}>
    <View
      style={{
        justifyContent: 'center',
        alignItems: 'center',
        marginTop: 40,
        borderRadius: 100,
        backgroundColor: 'pink',
        height: 80,
        width: 80,
        flexDirection: 'row',
      }}>
      <ImageBackground
        source={{uri: image}}
        style={{
          width: 80,
          height: 80,
          borderRadius: 50,
          flexDirection: 'column',
          justifyContent: 'flex-end',
          alignItems: 'center',
          paddingBottom: 4,
        }}>
        <TouchableOpacity
          onPress={Upload}
          style={{
            backgroundColor: 'rgba(0,0,0,0.7)',
            borderBottomRightRadius: 50,
            borderBottomLeftRadius: 50,
            padding: 10,
            width: 55,
            height: 55,
            justifyContent: 'center',
            alignItems: 'center',
            margin: 10,
          }}>
          {edit && <Text style={{color: 'white'}}>Edit</Text>}
          </TouchableOpacity>
        </ImageBackground>
      </View>
    </View>
    <Text style={styles.label}>Name</Text>
    <TextInput
      editable={edit}
      placeholder="Name"
      placeholderTextColor="grey"
      style={styles.textInput}
      multiline={true}
      maxLength={165}
      value={state.username}
      onChangeText={({text}) => {
        setState({
          ...state,
          username: text,
        });
      }}
    />
    <Text style={styles.label}>Email</Text>
    <TextInput
      editable={edit}
      placeholder="Email"
      placeholderTextColor="#123"
      style={styles.textInput}
      multiline={true}
      maxLength={165}
      value={state.email}
      onChangeText={({text}) => {
        setState({
          ...state,
          email: text,
        });
      }}
    />
    <Text style={styles.label}>Phone number</Text>
    <TextInput
      editable={edit}
      placeholder="Phone number"
      placeholderTextColor="grey"
    />
  </View>
</View>

```

PROFILE.JS

```

style={styles.textInput}
multiline={true}
maxLength={165}
value={state.phoneNum}
onChangeText={(text) => {
  setState({
    ...state,
    phoneNum: text,
  });
}}
/>
<Text style={styles.label}>Gender</Text>
<View
style={{
  flexDirection: 'row',
  justifyContent: 'center',
  paddingTop: 20,
}}>
<TouchableOpacity
onPress={() => {
  edit &&
  setState({
    ...state,
    gender: 1,
  });
}}>
<View
style={{
  paddingHorizontal: 30,
  paddingVertical: 10,
  backgroundColor: '#F0F8FF',
  marginRight: 20,
  borderColor:
    state.gender == 0
      ? null
      : state.gender == 1
        ? '#49abc3'
        : null,
  borderwidth: state.gender == 1 ? 1 : 0,
  borderRadius: 8,
}}>
<Image source={male} style={{width: 40, height: 40}} />
<Text style={{paddingVertical: 10}}>Male</Text>
</View>
</TouchableOpacity>
<TouchableOpacity
onPress={() => {
  edit &&
  setState({
    ...state,
    gender: 2,
  });
}}>
<View
style={{
  paddingHorizontal: 30,
  paddingVertical: 10,
  backgroundColor: '#F0F8FF',
  marginRight: 10,
  borderColor:
    state.gender == 0
      ? null
      : state.gender == 2
        ? '#49abc3'
        : null,
  borderwidth: state.gender == 2 ? 1 : 0,
  borderRadius: 8,
}}>
<Image source={female} style={{width: 40, height: 40}} />
<Text style={{paddingVertical: 10}}>Female</Text>
</View>
</TouchableOpacity>
<View
style={{
  paddingTop: 10,
  paddingRight: 10,
}}>
<Text style={styles.label}>Age</Text>
<TextInput
editable={edit}
placeholder="age"
placeholderTextColor="grey"
style={[styles.textInput]}
multiline={true}
maxLength={165}
value={state.age}
onChangeText={(text) => {
  setState({...state, age: text});
}}
/>
</View>
<TouchableOpacity
style={{
  flexDirection: 'row',
  alignItems: 'center',
}}>
<Text style={styles.label}>Address</Text>
<TextInput
style={styles.textInput}
placeholder="Address"
placeholderTextColor="grey"
multiline={true}
maxLength={165}
value={state.address}
onChangeText={(text) => {
  setState({...state, address: text});
}}
/>
</TouchableOpacity>
<Text style={styles.label}>City</Text>
<TextInput
style={styles.textInput}
placeholder="City"
placeholderTextColor="grey"
multiline={true}
maxLength={165}
value={state.city}
onChangeText={(text) => {
  setState({...state, city: text});
}}
/>
</View>
</View>

```

PROFILE.JS

```

        justifyContent: 'center',
        marginTop: 10,
      )}
      onPress={() => {
        if (edit) {
          onSave();
        } else {
          setEdit(!edit);
        }
     }}
    <View
      style={{
        paddingHorizontal: 30,
        paddingVertical: 10,
        backgroundColor: '#1464F4',
        width: 100,
        borderRadius: 10,
      }}>
    <Text
      style={{
        color: 'white',
        fontSize: 15,
        textAlign: 'center',
        fontWeight: 'bold',
      }}>
      {edit ? 'Save' : 'Edit'}
    </Text>
    </View>
  </TouchableOpacity>
</View>
</ScrollView>
</View>
);
};

export default Profile;

const styles = StyleSheet.create({
  label: {
    color: '#113366',
    fontSize: 14,
    fontWeight: '700',
    marginTop: 10,
    marginLeft: 10,
  },
  textInput: {
    backgroundColor: '#fefefe',
    opacity: 0.5,
  },
  backText: {
    borderColor: 'grey',
    borderWidth: 1,
    height: 40,
    color: '#123',
    fontWeight: '600',
    marginHorizontal: 10,
    paddingHorizontal: 10,
    paddingVertical: 7,
    marginVertical: 8,
    borderRadius: 10,
    width: 335,
  },
  backButton: {
    marginTop: 8,
    justifyContent: 'space-between',
    alignSelf: 'center',
    backgroundColor: '#00B2EE',
    borderRadius: 22,
    width: 130,
    height: 50,
    flexDirection: 'row',
    elevation: 4,
  },
});

```

EMERGENCY.JS

```
import React from 'react';
import {
  View,
  Text,
  TouchableOpacity,
  StyleSheet,
  Dimensions,
  FlatList,
  Image,
} from 'react-native';

const {height, width} = Dimensions.get('window');

const DATA = [
  {
    id: "1",
    url: "https://www.atsociety.org.uk/wp-content/uploads/2019/11/Helpline.png",
    name: "011-23978046 or 1075"
  },
  {
    id: "2",
    url: "https://englishtribuneimages.blob.core.windows.net/2021_4$largeimg_1438667766.jpg",
    name: "TN: 044-29510500"
  },
  {
    id: "3",
    url: "https://pbs.twimg.com/profile_images/1383992823003815936/Aj-yhJb2_400x400.jpg",
    name: "1800-111-747"
  }
]

const Emergency = () => {
  return (
    <View style={styles.wrapper}>
      <View style={styles.top}>
        <View style={styles.ripple_1}></View>
        <View style={styles.ripple_2}></View>
        <TouchableOpacity style={styles.sos_button}>
          <Text style={styles.sos_button_text}>SOS</Text>
        </TouchableOpacity>
      </View>
      <View style={styles.bottom}>
        <FlatList
          contentContainerStyle={{paddingVertical: 42}}
          data={DATA}
          renderItem={({item, index}) => (
            <View style={styles.contact_tile}>
              <Image style={styles.contact_image} source={{uri: item.url}}/>
              <Text style={styles.contact_name}>{item.name}</Text>
            </View>
          )}
        />
      </View>
    </View>
  );
}

const styles = StyleSheet.create({
  wrapper: {
    flex: 1,
    backgroundColor: "#fff",
  },
  top: {
    flex: 1,
    justifyContent: "center",
    alignItems: "center",
  },
  bottom: {
    flex: 2,
    padding: 10,
  },
  sos_button: {
    width: 50,
    height: 50,
    borderRadius: 25,
    backgroundColor: "#007bff",
    margin: 10,
  },
  sos_button_text: {
    color: "#fff",
    font-size: 16,
    textAlign: "center",
  },
  contact_tile: {
    padding: 10,
    margin: 10,
  },
  contact_image: {
    width: 50,
    height: 50,
  },
  contact_name: {
    color: "#000",
    fontWeight: "bold",
  },
});
```

EMERGENCY.JS

```

const styles = StyleSheet.create({
  wrapper: {
    width: width,
    height: height,
    position: 'relative',
  },
  top: {
    width: width,
    height: height * 0.6,
    backgroundColor: '#D4EBFA',
    position: 'relative',
    zIndex: 10
  },
  bottom: {
    width: width,
    height: height * 0.4,
    backgroundColor: '#F4F8FA',
    position: 'relative',
    zIndex: 10
  },
  sos_button: {
    backgroundColor: '#E72B2C',
    width: 150,
    height: 150,
    borderRadius: 100,
    alignItems: 'center',
    justifyContent: 'center',
    elevation: 50,
    top: height * 0.6 * 0.5,
    left: width * 0.5,
    transform: [
      {
        translateX: -75
      },
      {
        translateY: -75
      }
    ]
  },
  ripple_1: {
    position: 'absolute',
    backgroundColor: '#E72B2C10',
    width: 320,
    height: 320,
    borderRadius: 300,
    top: height * 0.6 * 0.5,
    left: width * 0.5,
    transform: [
      {
        translateX: -(320/2)
      },
      {
        translateY: -(320/2)
      }
    ]
  },
  ripple_2: {
    position: 'absolute',
    backgroundColor: '#E72B2C15',
    width: 240,
    height: 240,
    borderRadius: 300,
    top: height * 0.6 * 0.5,
    left: width * 0.5,
    transform: [
      {
        translateX: -(240/2)
      },
      {
        translateY: -(240/2)
      }
    ]
  },
  sos_button_text: {
    fontSize: 27,
    fontWeight: 'bold',
    color: '#F4F8FA',
  },
  add_contact_button: {
    width: 220,
    height: 56,
    elevation: 5,
    backgroundColor: '#72B5ED',
    position: 'absolute',
    bottom: height * 0.4,
    left: width * 0.5,
    zIndex: 30,
    borderRadius: 100,
    alignItems: 'center',
    justifyContent: 'center',
    transform: [
      {
        translateX: -110
      },
      {
        translateY: 28
      }
    ]
  },
  contact_tile: {
    paddingHorizontal: 12,
    paddingVertical: 8,
    flexDirection: 'row',
    alignItems: 'center'
  },
  contact_image: {
    height: 50,
    width: 50,
    borderRadius: 1000,
    marginRight: 14
  });
});

export default Emergency;

```

DASHBOARD.JS

```
import React, {useEffect, useState} from 'react';
import {
  View,
  Button,
  Dimensions,
  Text,
  ScrollView,
  StyleSheet,
  Image,
} from 'react-native';
import DateTimePickerModal from 'react-native-modal-datetime-picker';
import DropDownPicker from 'react-native-dropdown-picker';
import axios from 'axios';

import {
  getStates,
  getDistricts,
  calendarByDistrict,
  calendarByPin,
  findByDistrict,
  findByPin,
} from 'cowin-api-client';

const window_width = Dimensions.get('window').width - 40;

import moment from 'moment';
const Dashboard = ({navigation}) => {
  const [states, setStates] = useState([]);
  const [StateId, setStateId] = useState(null);
  const [openState, setOpenState] = useState(false);
  const [openDistrict, setOpenDistrict] = useState(false);
  const [district, setDistrict] = useState([]);
  const [districtId, setDistrictId] = useState(null);
  const [date, setDate] = useState('Please Pick a Date');
  const [isDatePickerVisible, setDatePickerVisibility] = useState(false);
  const [venue, setVenue] = useState([]);

  const [india, setIndia] = useState({});

  const showDatePicker = () => {
    setDatePickerVisibility(true);
  };
}
```

DASHBOARD.JS

```
useEffect(() => {
  // covid.countries({country: 'india'}).then(res => console.log(res));
  let x = null;
  axios
    .get('https://api.covid19api.com/summary')
    .then((res) => {
      x = res;
      setIndia(
        x.data.Countries.filter(
          (country) => country.ID == '85fa473a-2e6b-43b9-9f9b-b452fe1af3bb',
        )[0],
      );
      // console.log(india);
      if (states.length == 0) {
        getStates().then((sta) => {
          sta = sta.states.map((e) => {
            return {
              label: e.state_name,
              value: e.state_id,
            };
          });
          setStates(sta);
        });
      }
      if (StateId != null) {
        getDistricts(StateId).then((district) => {
          setDistrict(
            district.districts.map((e) => {
              return {
                label: e.district_name,
                value: e.district_id,
              };
            }),
          );
        });
      }
    })
    .catch(() => {});
}, [StateId, districtId, india]);
const onDateChange = async (date) => {
  let Fdate = moment(date).format('DD-MM-YYYY');
  const venue = await calendarByDistrict(districtId, Fdate);
  // console.log(venue);
  setVenue(venue.centers);
  // console.log(Fdate);
  setDate(Fdate);
  setDatePickerVisibility(false);
  navigation.navigate('viewDetails', {
    venue,
  });
};
```

DASHBOARD.JS

```
return (
  <View style={{padding: 20, backgroundColor: 'white', height: '100%'}}>
    <View>
      <View
        style={{
          flexDirection: 'row',
          justifyContent: 'space-between',
          marginBottom: 20,
        }}>
        <View style={{width: window_width / 2 - 10}}>
          <DropDownPicker
            open={openState}
            value={StateId}
            items={states}
            zIndex={100}
            setOpen={setOpenState}
            setValue={setStateId}
            setItems={setStates}
            placeholder="Select State"
          />
        </View>
        <View style={{width: window_width / 2 - 10}}>
          <DropDownPicker
            open={openDistrict}
            value={districtId}
            items={district}
            zIndex={100}
            setOpen={setOpenDistrict}
            setValue={setDistrictId}
            setItems={setDistrict}
            placeholder="Select district"
          />
        </View>
      </View>
      <Button
        style={{margin: 20, width: window_width - 20}}
        disabled={districtId ? false : true}
        title={date}
        onPress={showDatePicker}
      />
    </View>
    <ScrollView style={{marginTop: 20}}>
      <View style={{zIndex: 0}}>
        <DateTimePickerModal
          isVisible={isDatePickerVisible}
          mode="date"
          onConfirm={onDateChange}
          onCancel={() => {
            setDatePickerVisibility(false);
          }}
        />
        <Image
          source={require('../images/img3.png')}
          style={{width: window_width - 20, height: 200}}
        />
      </View>
    </ScrollView>
  </View>
)
```

DASHBOARD.JS

```
<View style={{flexDirection: 'column'}}>
  <View style={{flexDirection: 'row'}}>
    <View
      style={[
        styles.card,
        {alignItems: 'center', backgroundColor: '#FFEFD8'},
      ]}>
      <Text style={styles.cardTitle}>Total cases</Text>
      <Text style={styles.cardNumber}>{india.TotalConfirmed}</Text>
    </View>
    <View
      style={[
        styles.card,
        {
          padding: 80,
          alignItems: 'center',
          backgroundColor: '#CEC8E4',
        },
      ]}>
      <Text style={styles.cardTitle}>New cases</Text>
      <Text style={styles.cardNumber}>{india.NewConfirmed}</Text>
    </View>
  </View>
  <View style={{flexDirection: 'row'}}>
    <View style={[styles.card, {backgroundColor: '#FFCCCB'}]}>
      <View style={{alignItems: 'center'}}>
        <Text style={styles.cardTitle}>Total Recovered</Text>
        <Text style={styles.cardNumber}>{india.TotalRecovered}</Text>
      </View>
    </View>
    <View style={[styles.card, {backgroundColor: '#F0F8FF'}]}>
      <View style={{alignItems: 'center'}}>
        <Text style={styles.cardTitle}>Total Deaths</Text>
        <Text style={styles.cardNumber}>{india.TotalDeaths}</Text>
      </View>
    </View>
  </View>
</ScrollView>
</View>
);
};

export default Dashboard;
```

VIEWDETAILS.JS

```
import { View, Button, Text, ScrollView, StyleSheet, Image } from 'react-native';
import React, { useState } from 'react';
import Spinner from 'react-native-loading-spinner-overlay';

const ViewDetails = ({ navigation, route }) => {
  const [venues, setVenues] = useState({ venues: route.params.venue });

  if (venues) {
    if (venues.venues.centers.length == 0) {
      return (
        <View
          style={{
            flexDirection: 'row',
            justifyContent: 'center',
            alignItems: 'center',
          }}>
          <Text
            style={{
              textAlign: 'center',
              fontWeight: 'bold',
              fontSize: 30,
              paddingTop: 20,
            }}>
            No Venues Available
          </Text>
        </View>
      );
    }
    return (
      <View style={{ backgroundColor: '#fff', }}>
        <ScrollView style={{ paddingBottom: 20 }}>
          <Text
            key={1361}
            style={{
              textAlign: 'center',
              fontWeight: 'bold',
              fontSize: 30,
              paddingTop: 20,
              color: '#369',
            }}>
            Venues
          </Text>
          {venues.venues.centers.map((center, index) => {
            // console.log(center);
          })
        <Text
          style={{
            textAlign: 'center',
            color: '#369',
            margin: 10,
          }}>
          {center.name}
        </Text>
        <Image
          style={{
            width: 150,
            height: 150,
            borderRadius: 50,
            margin: 10,
          }}>
          {center.image}
        </Image>
        <Text
          style={{
            color: '#369',
            margin: 10,
          }}>
          {center.address}
        </Text>
        <Text
          style={{
            color: '#369',
            margin: 10,
          }}>
          {center.phone}
        </Text>
        <Text
          style={{
            color: '#369',
            margin: 10,
          }}>
          {center.website}
        </Text>
      </ScrollView>
    );
  }
}
```

VIEWDETAILS.JS

```
<View style={styles.card} key={index}>
  <Text style={styles.text}>{center.name}</Text>
  <Text style={styles.bodyText}>{center.address}</Text>
  <Text style={{ color: '#369', fontWeight: 'bold' }}>
    Fees Type : {center.fee_type}
  </Text>
  {center.fee_type == 'PAID' ? (
    <View>
      <Text style={{ color: '#369', fontWeight: 'bold' }}>
        Fees Paid :{center.vaccine_fees[fee]}
      </Text>
    </View>
  ) : (
    <Text></Text>
  )}
  {center.sessions.map((session, index) => {
    return (
      <View key={index * 20} style style={{ paddingVertical: 10 }}>
        <Text style={{ color: '#369' }}>Session : {index + 1}</Text>
        <Text style={{ color: '#369' }}>
          Vaccine : {session.vaccine}
        </Text>
        <Text style={{ color: '#369' }}>
          Age Limit : {session.min_age_limit}
        </Text>
        <Text style={{ color: '#369' }}>
          Available Capacity : {session.available_capacity}
        </Text>
        <Text style={{ color: '#369' }}>
          Available for Dose 1 :{' '}
          {session.available_capacity_dose1}
        </Text>
        <Text style={{ color: '#369' }}>
          Available for Dose 2 :{' '}
          {session.available_capacity_dose2}
        </Text>
      </View>
    );
  ))}
</View>
);
});
</ScrollView>
</View>
);
}
else {
```

VIEWDETAILS.JS

```
return (
  <View
    style={[
      flexDirection: 'row',
      justifyContent: 'center',
      alignItems: 'center',
      backgroundColor: '#F4F8FA',
    ]}>
    <Spinner visible={loading} animation="fade" />
  </View>
);
}

const styles = StyleSheet.create({
  card: {
    borderRadius: 4,
    marginHorizontal: 10,
    marginVertical: 20,
    paddingVertical: 20,
    paddingHorizontal: 20,
    elevation: 8,
    width: '80%',
    alignSelf: 'center',
    backgroundColor: '#F0F8FF',
  },
  titleText: {
    color: '#369',
    fontSize: 18,
  },
  text: {
    fontSize: 15,
    color: '#003F87',
    textAlign: 'center',
    fontWeight: 'bold',
    marginTop: 10,
  },
  bodyText: {
    fontSize: 14,
    //color:"rgba(0,0,150,0.5)",
    color: '#369',
    textAlign: 'center',
    marginVertical: 20,
  },
});
}

export default ViewDetails;
```

LANDING PAGE

COVAC



COVAC

Better to wear a mask than
a ventilator, better to stay at
home than in an ICU

Login

OR

Signup



Better to wear a mask than
a ventilator, better to stay at
home than in an ICU

Login

OR

Signup

LOGIN & SIGNUP



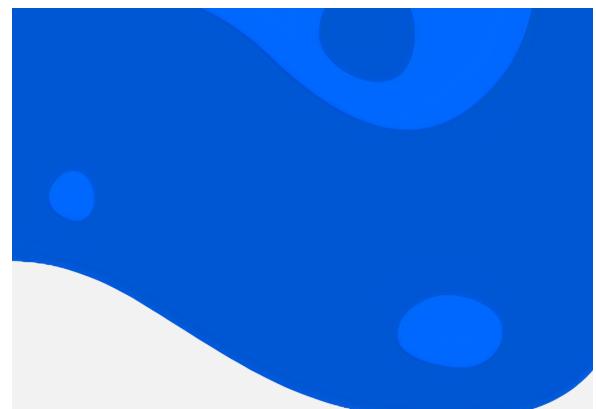
Login

Email

Password

Login

Want to join us ! [Signup](#)



Signup

Username

Email

Password

Signup

Already a member ! [Login](#)

GUIDELINES AND HELPLINE

≡ COVAC



COVID HELPLINE INDIA

 011-23978046 or 1075

 TN: 044-29510500

 1800-111-747

≡ COVAC

COVID Safety guidelines



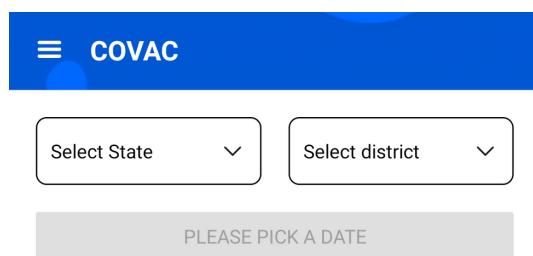
What to do if someone is sick in your household?

Prepare an isolated room or space for the person and keep them ventilated. Monitor the person's symptoms regularly and keep them hydrated, don't panic. Try to reduce contact with the sick person and use separate dishes and items for them, regularly disinfect and clean the touched surfaces.



Why do I need to get vaccinated?

DASHBOARD

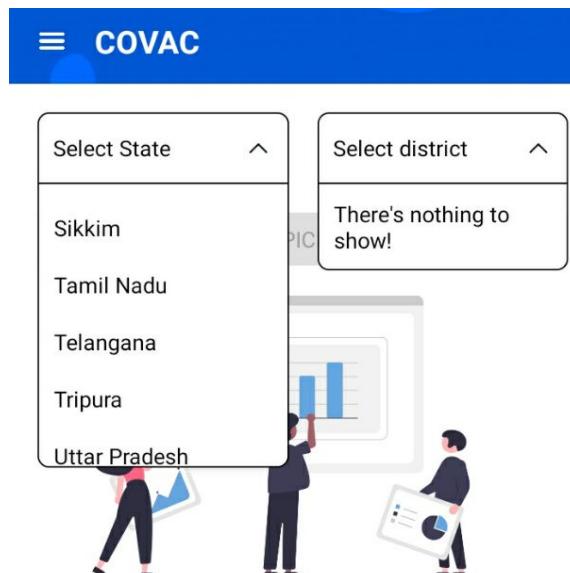


Total cases
24965463

New cases
281386

Total
Recovered
21174076

Total
Deaths
274390



Total
cases
24965463

New cases
281386

Total
Recovered
21174076

Total
Deaths
274390

DASHBOARD



Tamil Nadu Chennai

PLEASE PICK A DATE

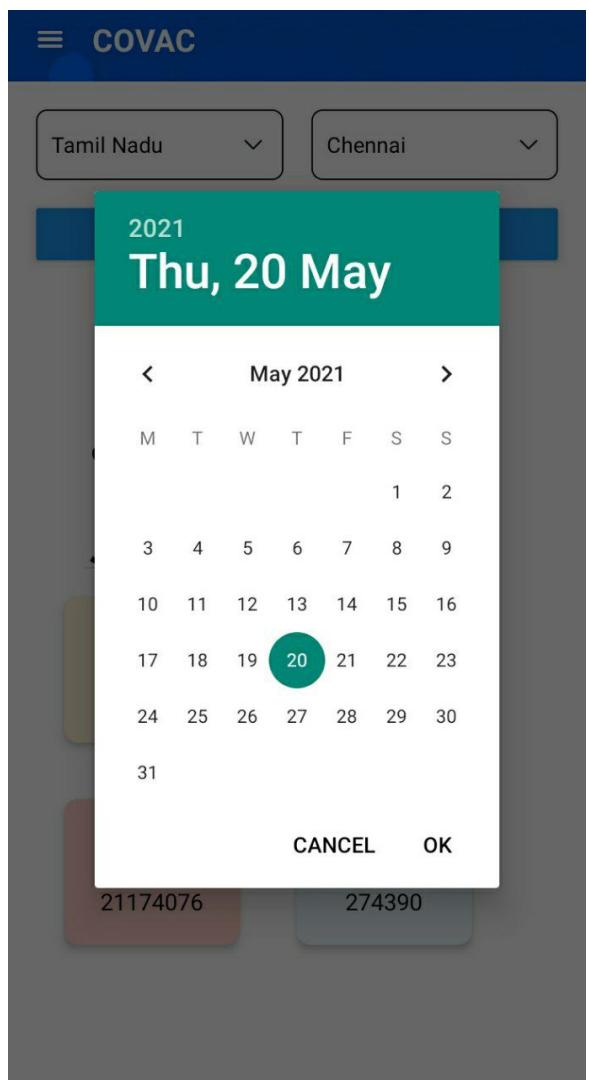


Total cases
24965463

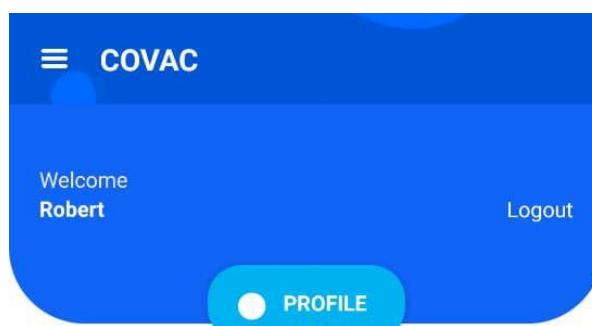
New cases
281386

Total Recovered
21174076

Total Deaths
274390



PROFILE



Name

Robert

Email

robert@gmail.com

Phone number

Phone number

Gender



Male

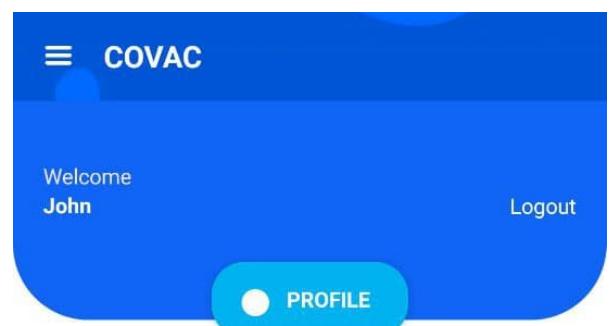


Female

Age

age

Edit



Name

John

Email

John@yahoo.com

Phone number

9876543210

Gender



Male



Female

Age

19

Save

FUTURE OUTLOOK

- Long term enhancement by registering using Aadhar id for vaccination appointments.
- Hospital and medical center suggestion system based on user location.
- Addition of close contacts as SOS other than helpline numbers.



CONCLUSION

A platform that satisfies the need of the hour by allowing users to stay updated with covid related resources as a dashboard and check for vaccine availability in their local area and detailed info about dosage capacity, age limits open for vaccination, fees etc.

To get immediate contact assistance of helpline, the app also shows a list of central helpline numbers.





REFERENCES

- <https://reactnative.dev/docs/getting-started>
- <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/when-and-how-to-use-masks>
- <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public>