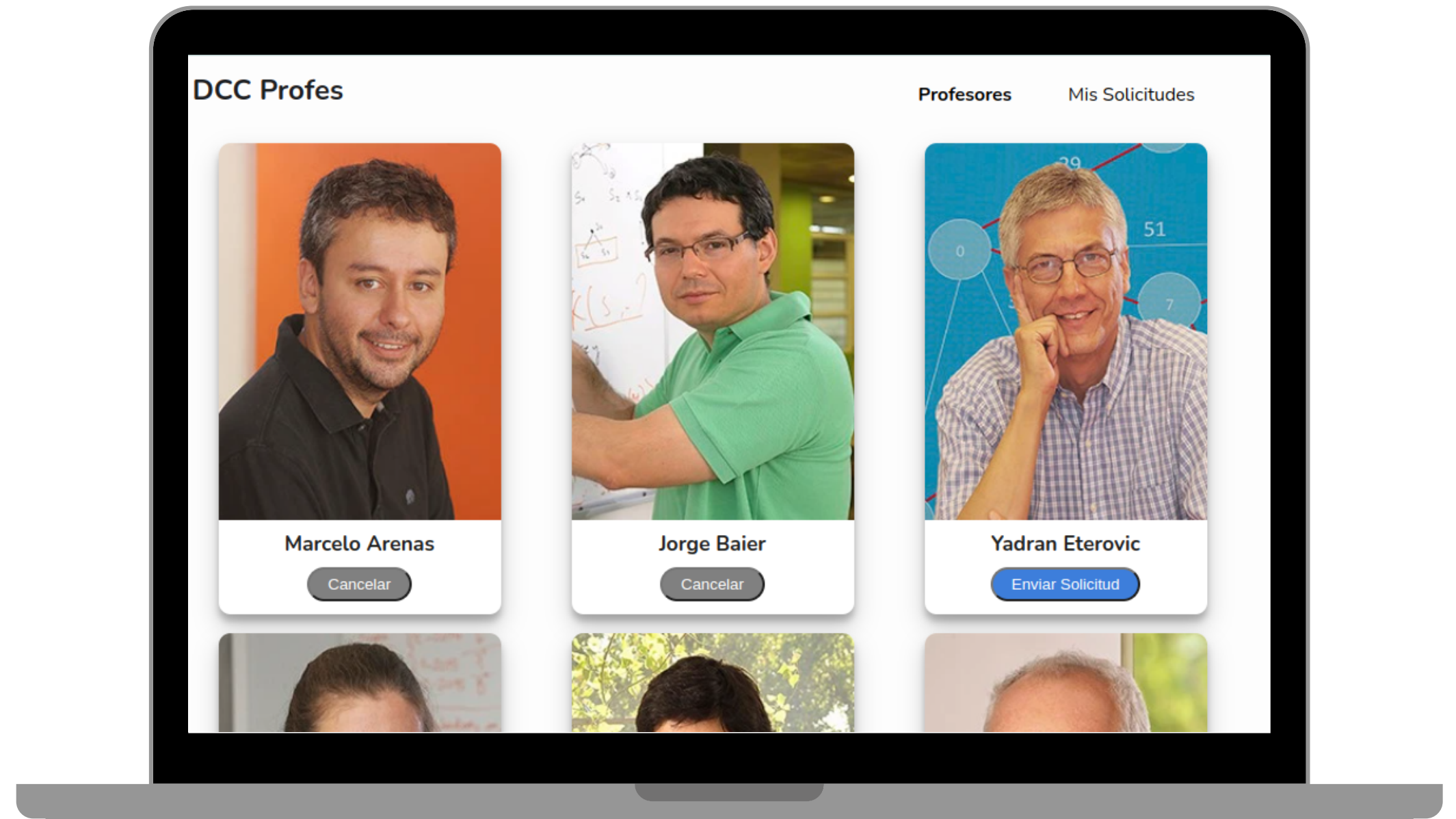
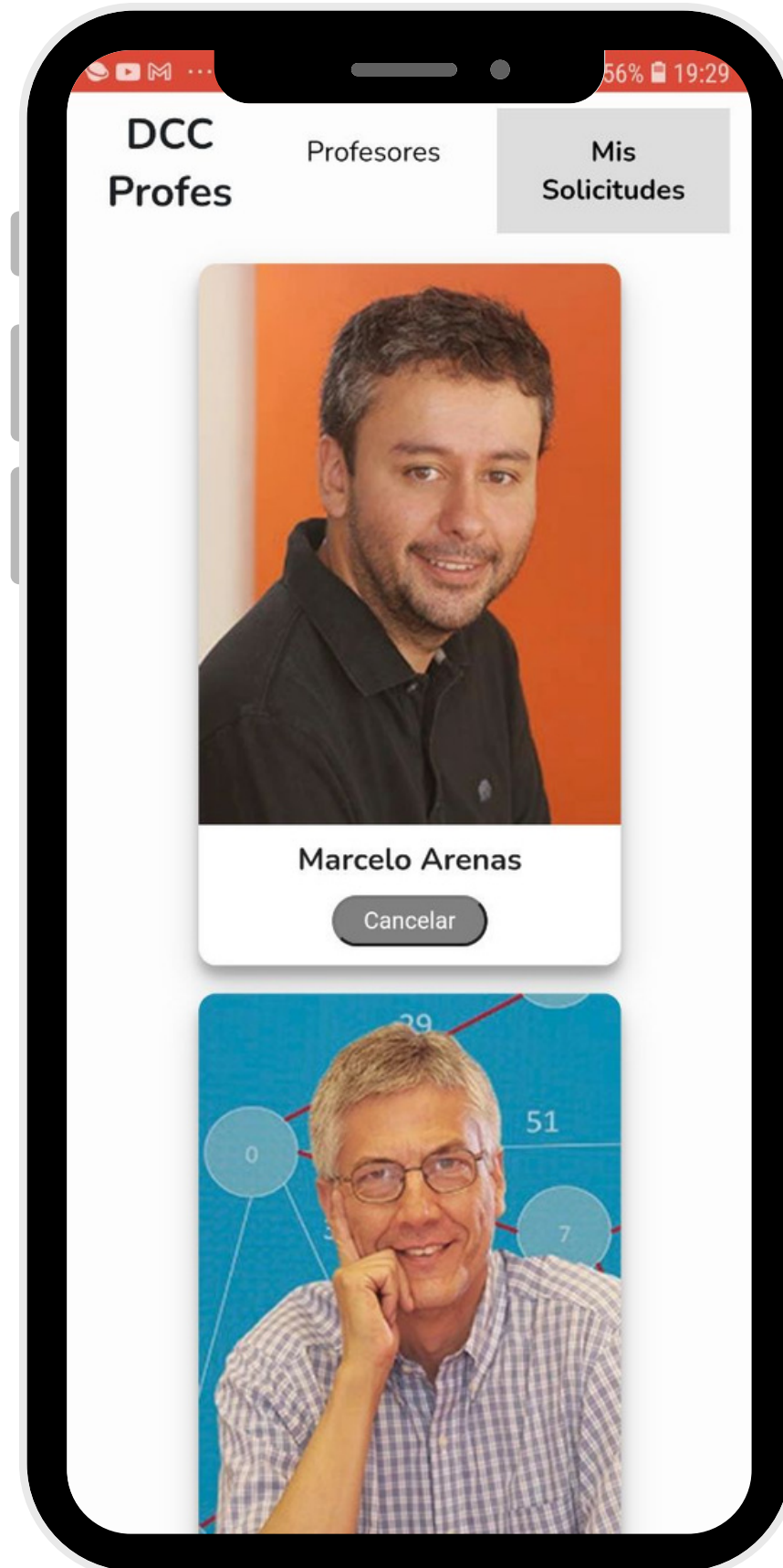


T4: PWA

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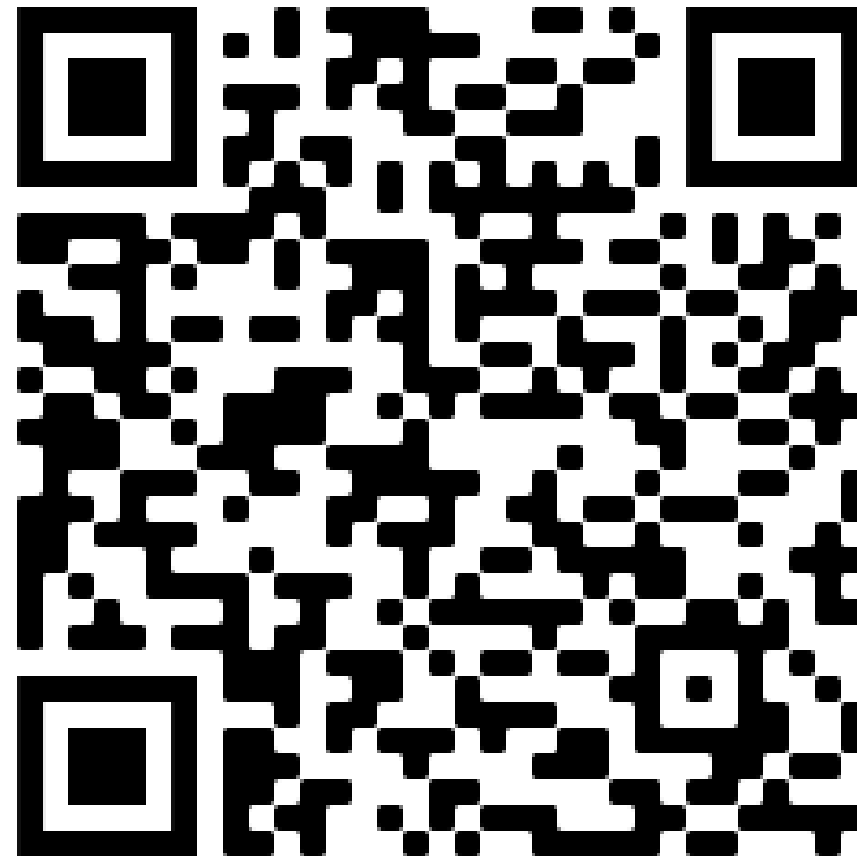
DCC Profes





DEMO

QR a la App





Play Store



00:00
Teléfono



Gmail



Internet



Cámara



app.js



```
1  if ('serviceWorker' in navigator && 'PushManager' in window) {  
2    navigator.serviceWorker.register('serviceWorker.js')  
3      .then(swReg => {  
4        swRegistration = swReg;  
5      })  
6      .catch(error => {  
7        console.error('Service Worker Error', error);  
8      });  
9  } else {  
10    console.warn('Push messaging is not supported');  
11  }
```



```
1  const initialiseUI = (teacherId, action) => {  
2    subscribeUser(teacherId, action);  
3    // Set the initial subscription value  
4    swRegistration.pushManager.getSubscription()  
5      .then(subscription => {  
6        isSubscribed = !(subscription === null);  
7        updateBtn();  
8      });  
9  };
```




```
1  const subscribeUser = (teacherId, action) => {
2    const applicationServerKey = urlB64ToUint8Array(applicationServerPublicKey);
3    swRegistration.pushManager.subscribe({
4      userVisibleOnly: true,
5      applicationServerKey: applicationServerKey
6    })
7    .then(subscription => {
8      updateSubscriptionOnServer(subscription, teacherId, action);
9      isSubscribed = true;
10     updateBtn();
11   })
12   .catch(err => {
13     console.log('Failed to subscribe the user: ', err);
14     updateBtn();
15   });
16 }
```



```
1  const updateSubscriptionOnServer = (subscription, teacherId, action) => {
2    let msge = action == "Enviar Solicitud"
3      ? "Se ha enviado su solicitud al profesor "
4      : "Ha cancelado su solicitud al profesor "
5    if (subscription) {
6      const subDetails = JSON.parse(JSON.stringify(subscription));
7      const myHeaders = new Headers();
8      myHeaders.append("Content-Type", "application/json");
9      const body = JSON.stringify({
10        "msg": msge + teacherId,
11        "endpoint": subDetails.endpoint,
12        "keys": {
13          "auth": subDetails.keys.auth,
14          "p256dh": subDetails.keys.p256dh,
15        }
16      });
17      const requestOptions = {
18        method: 'POST',
19        headers: myHeaders,
20        body,
21        redirect: 'follow'
22      };
23      fetch("https://pwag5-api.herokuapp.com/subscribe", requestOptions)
24        .then(response => response.text())
25        .then(result => console.log(result))
26        .catch(error => console.log('error', error));
27    }
28  }
```



```
1  app.post('/subscribe', (req, res) => {
2    const subscription = req.body;
3    const pushSubscription = {
4      endpoint: subscription.endpoint,
5      keys: {
6        auth: subscription.keys.auth,
7        p256dh: subscription.keys.p256dh
8      }
9    }
10   webpush.sendNotification(pushSubscription, subscription.msg);
11   res.send("Subscription recieved");
12 });
```

serviceWorker.js



```
1  self.addEventListener("install", installEvent => {
2    installEvent.waitUntil(
3      caches.open(staticDevDcc).then(cache => {
4        cache.addAll(assets)
5      })
6    )
7  })
8
9  self.addEventListener("fetch", fetchEvent => {
10    fetchEvent.respondWith(
11      caches.match(fetchEvent.request).then(res => {
12        return res || fetch(fetchEvent.request)
13      })
14    )
15  })
```



```
1 self.addEventListener('push', function(event) {
2   console.log('[Service Worker] Push Received.');
```

```
3   console.log(`[Service Worker] Push had this data: "${event.data.text()}"`);
4
5   const title = 'DCC Profes';
6   const options = {
7     body: event.data.text(),
8     icon: 'images/icon.png',
9     badge: 'images/badge.png'
10  };
11
12  const notificationPromise = self.registration.showNotification(title, options);
13  event.waitUntil(notificationPromise);
14
15  });
```



```
1 self.addEventListener('notificationclick', function(event) {  
2     console.log('[Service Worker] Notification click Received.');
```

```
3     event.notification.close();
```

```
4 });
```

manifest.json



```
1  {
2    "name": "DCC Profes",
3    "short_name": "DCC Profes",
4    "start_url": "index.html",
5    "display": "standalone",
6    "background_color": "#fdfdfd",
7    "theme_color": "#db4938",
8    "orientation": "portrait-primary",
9    "icons": [
10     {
11       "src": "/images/icons/icon-72x72.png",
12       "type": "image/png",
13       "sizes": "72x72"
14     }
15   ]
16 }
```

DIFICULTADES Y CONCLUSIONES

Implementar
notificaciones
push

Problemas de
hacer fetch
para las
notificaciones
push

Guardar
caché es poco
práctico para
debuggear

Sigue existiendo
el problema de
que la gente
llegue a la
aplicación

Muy útil poder
cachear datos
que funcionen
de manera
offline

Práctico poder
guardar una
aplicación web
como ícono de
app

T4: PWA

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