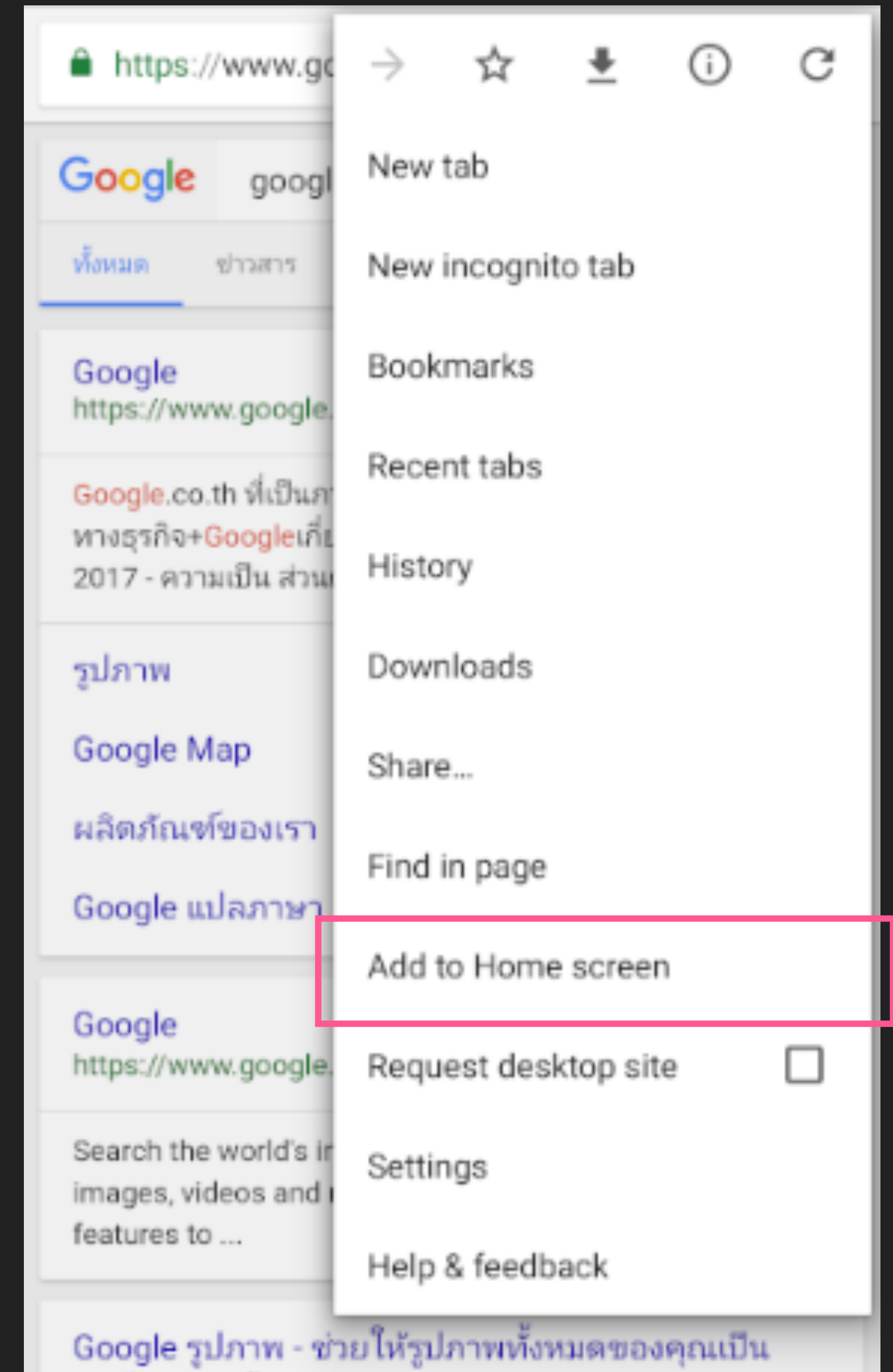
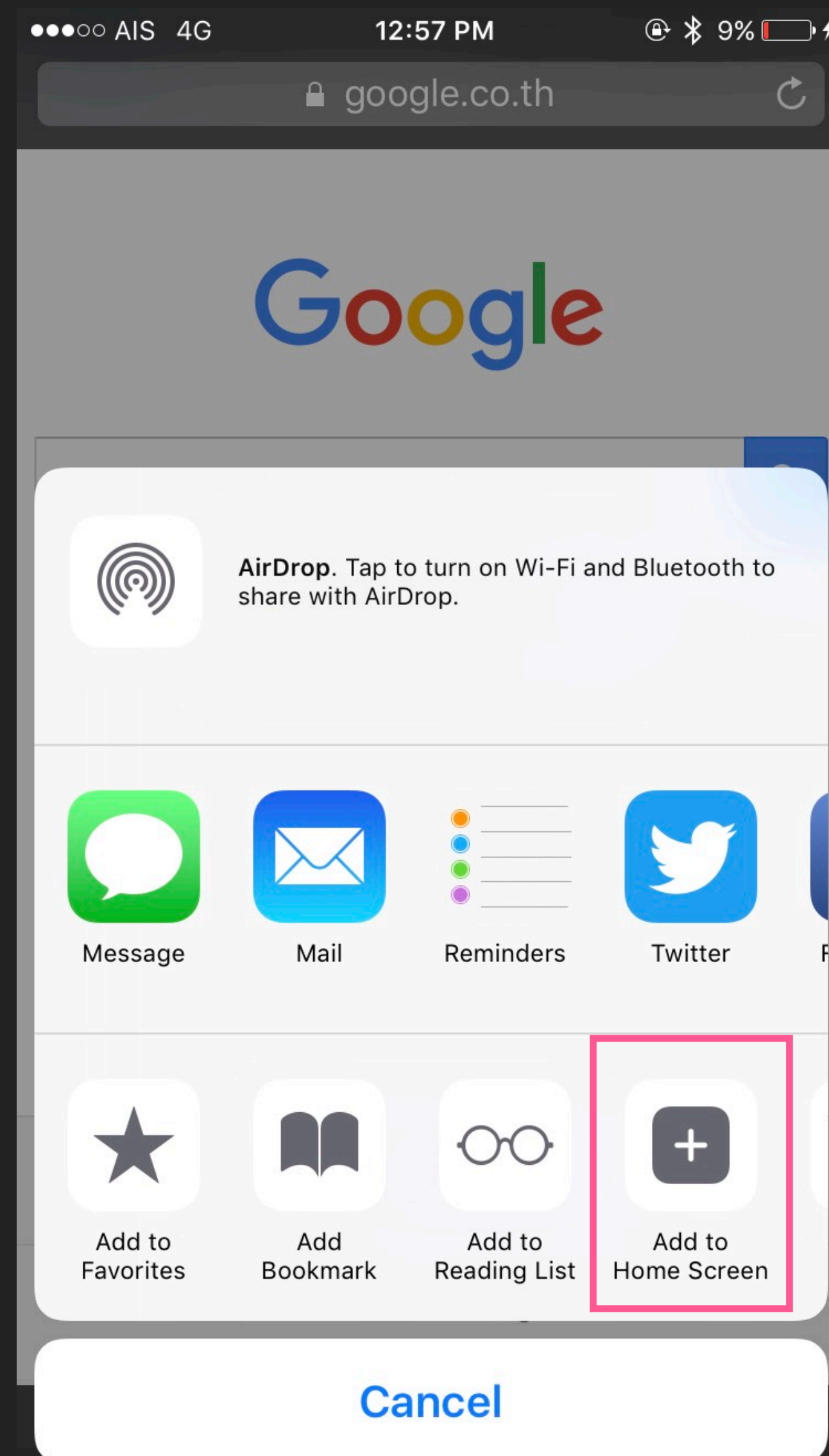


PROGRESSIVE WEB APPS

---

# WEB APP MANIFEST

## ADD TO HOME SCREEN



# WHAT IS WEB APP MANIFEST ?

- ▶ JSON file that provides information about an application

### EXAMPLE WEB APP MANIFEST

```
{
  "name": "ExampleWeb",
  "background_color": "#fff",
  "icons": [
    {
      "src": "images/icon.png",
      "sizes": "144x144",
      "type": "image/png"
    }
  ],
}
```

# DEPLOYING A MANIFEST

- ▶ Add script in <Head> tag

```
<link rel="manifest" href="/manifest.json">
```

WEB APP MANIFEST

---

PROPERTIES

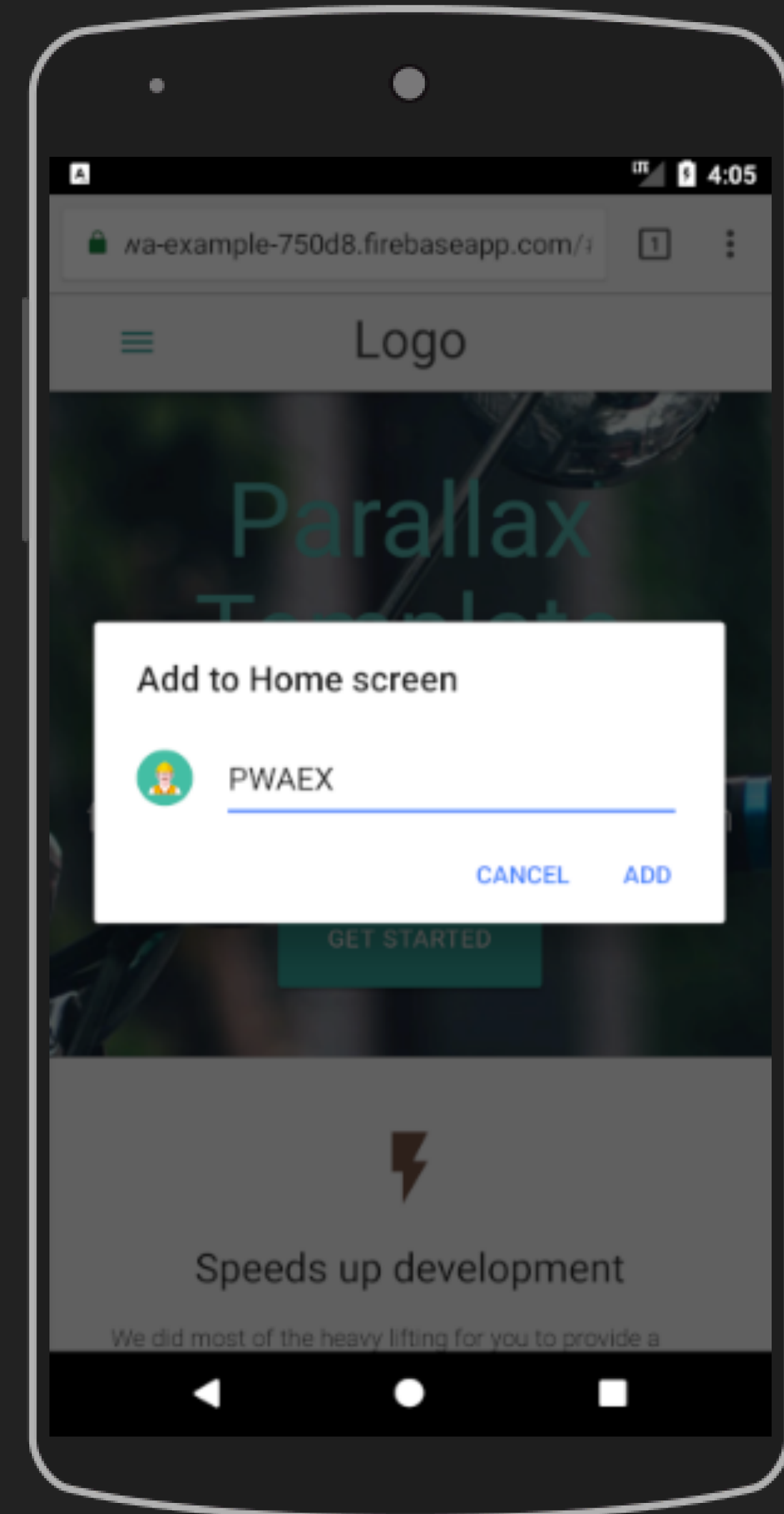
## NAME

```
{  
  "name": "PWA Example Project",  
  "short_name": "PWAEX",  
  "start_url": "/",  
  "icons": [  
    {  
      "src": "assets/images/logo.png",  
      "sizes": "144x144",  
      "type": "image/png"  
    }  
  ],  
  "display": "standalone"  
}
```



## SHORT\_NAME

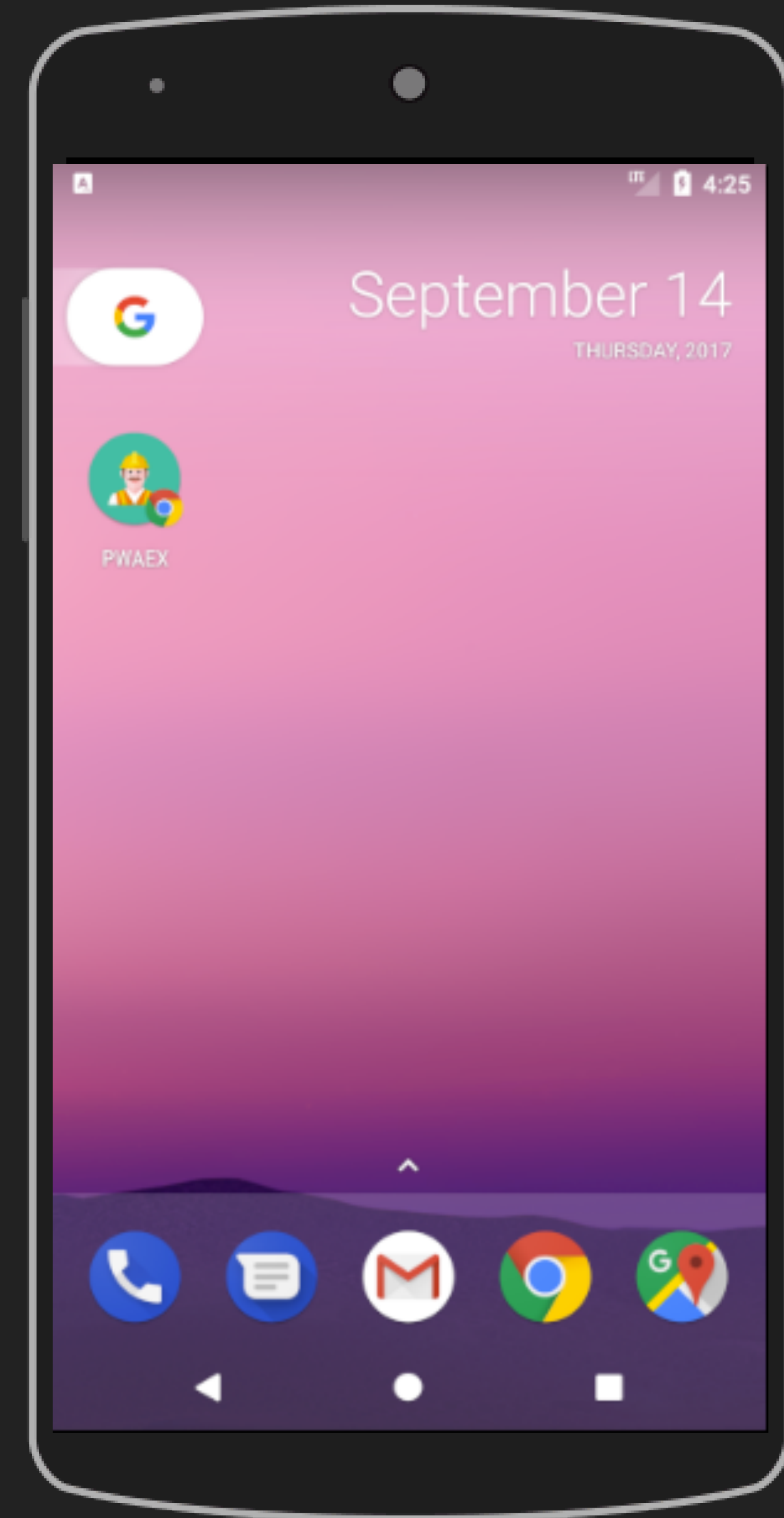
```
{
  "name": "PWA Example Project",
  "short_name": "PWAEX",
  "start_url": "/",
  "icons": [
    {
      "src": "assets/images/logo.png",
      "sizes": "144x144",
      "type": "image/png"
    }
  ],
  "display": "standalone"
}
```





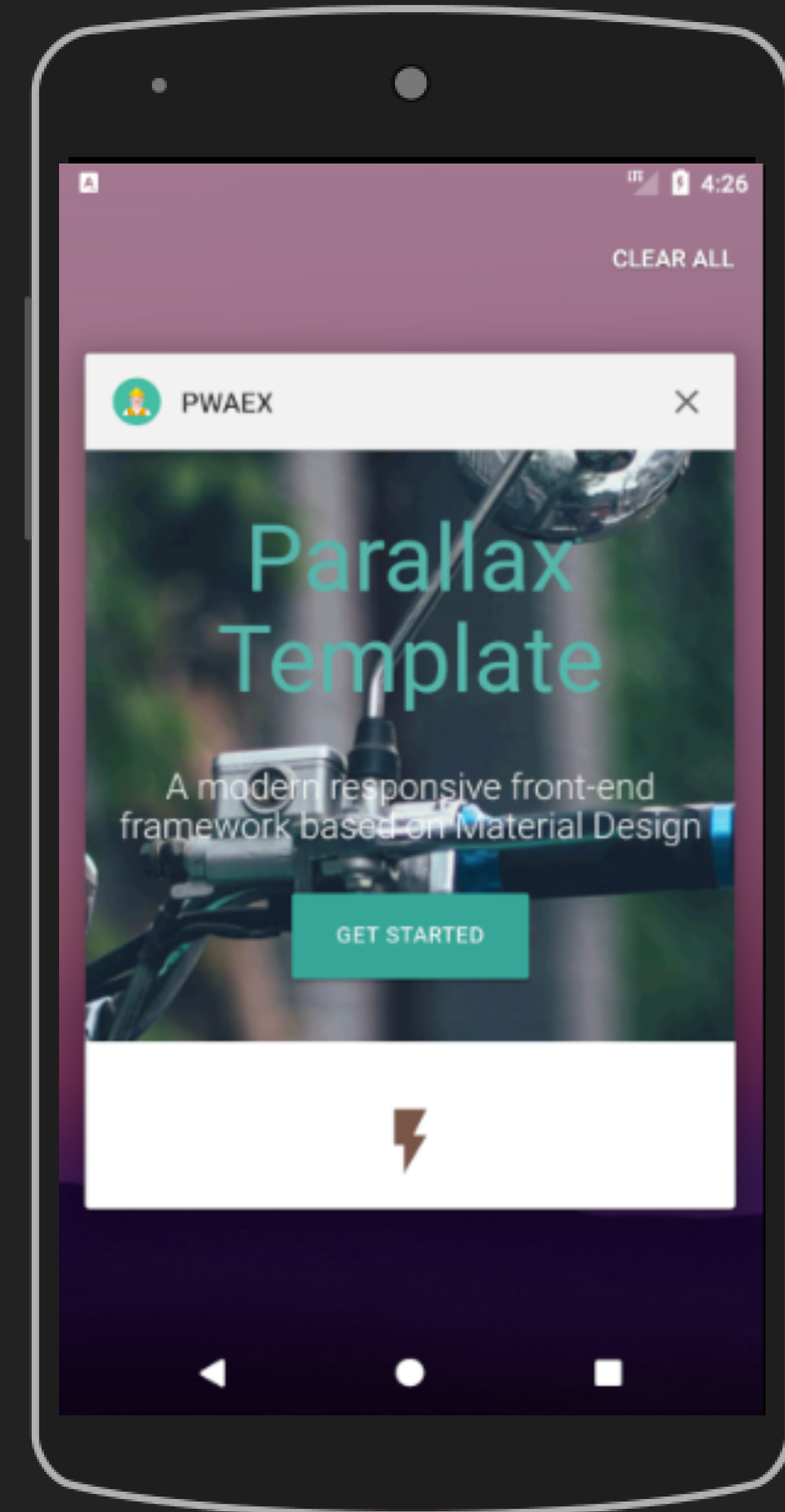
## SHORT\_NAME

```
{  
  "name": "PWA Example Project",  
  "short_name": "PWAEX",  
  "start_url": "/",  
  "icons": [  
    {  
      "src": "assets/images/logo.png",  
      "sizes": "144x144",  
      "type": "image/png"  
    }  
  ],  
  "display": "standalone"  
}
```



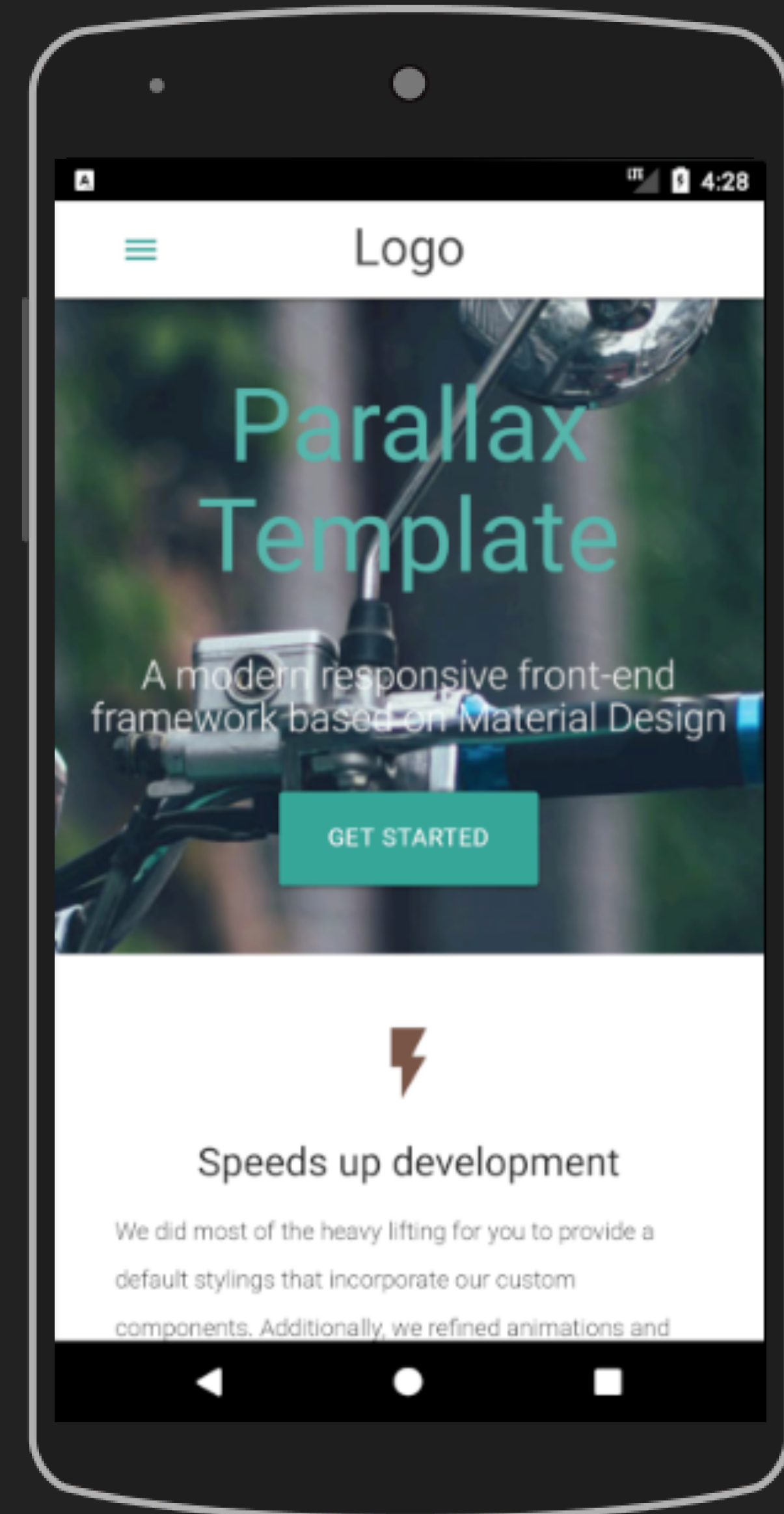
# SHORT\_NAME

```
{  
  "name": "PWA Example Project",  
  "short_name": "PWAEX",  
  "start_url": "/",  
  "icons": [  
    {  
      "src": "assets/images/logo.png",  
      "sizes": "144x144",  
      "type": "image/png"  
    }  
  ],  
  "display": "standalone"  
}
```



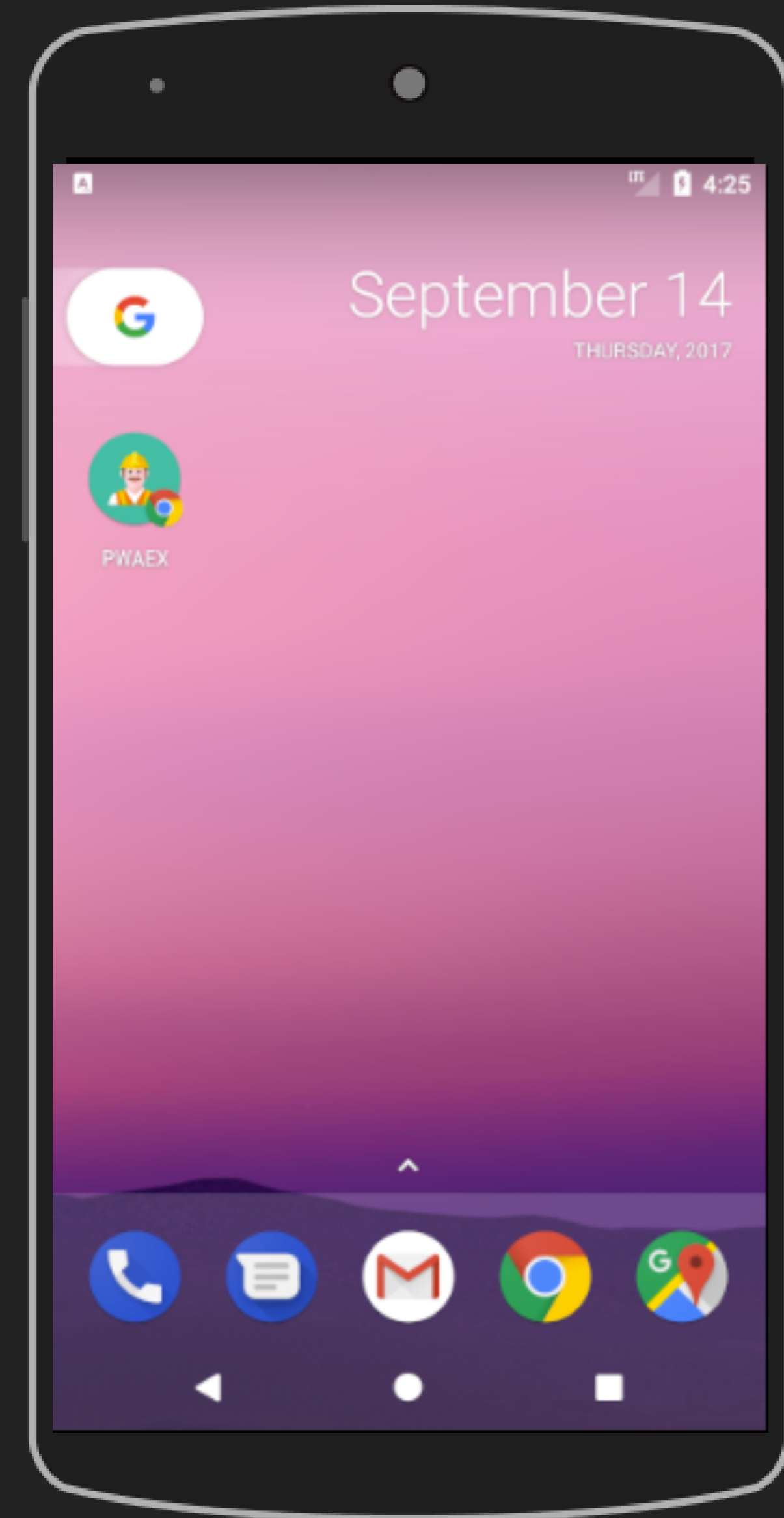
## START\_URL

```
{  
  "name": "PWA Example Project",  
  "short_name": "PWAEX",  
  "start_url": "/",  
  "icons": [  
    {  
      "src": "assets/images/logo.png",  
      "sizes": "144x144",  
      "type": "image/png"  
    }  
  ],  
  "display": "standalone"  
}
```



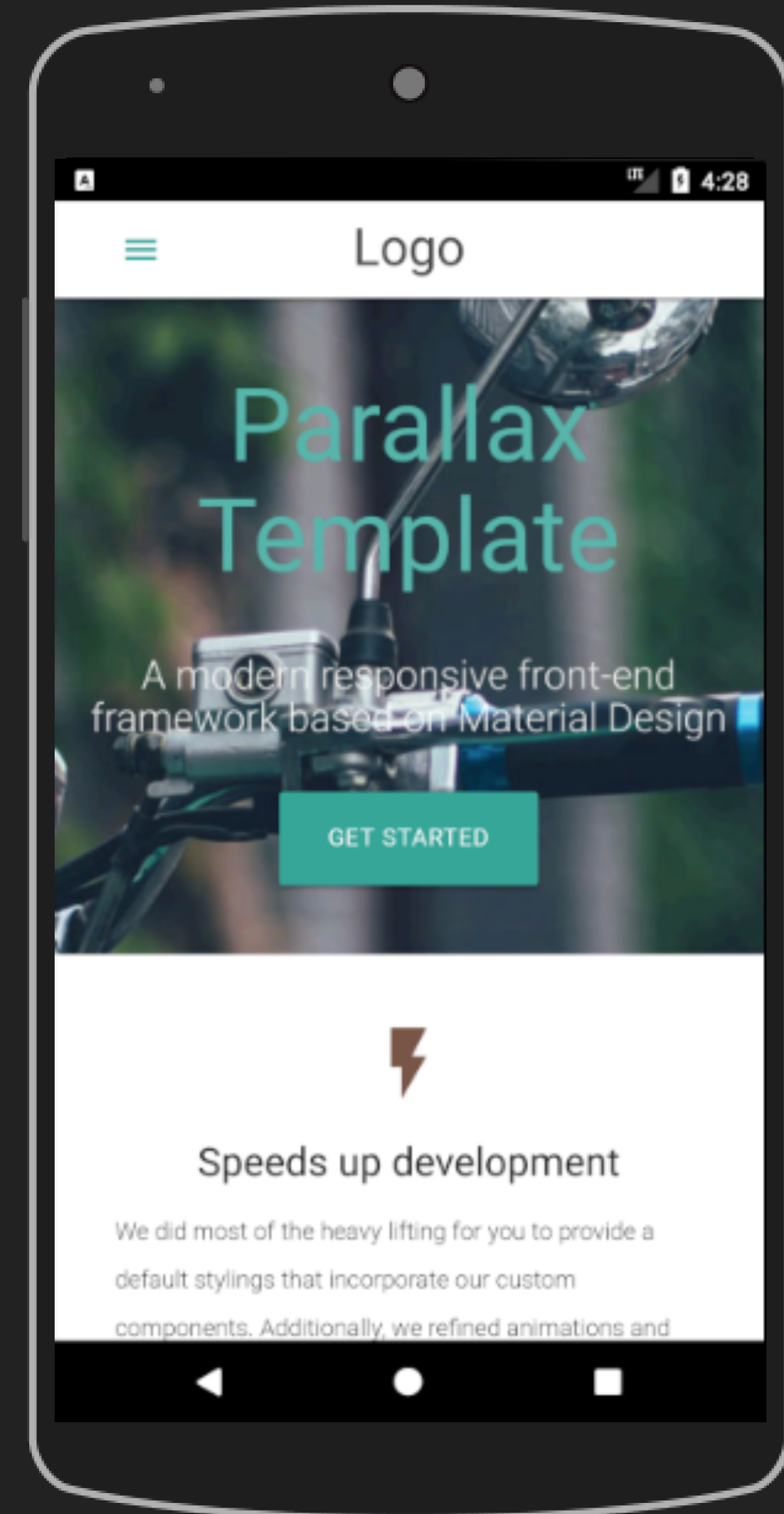
## ICONS

```
{  
  "name": "PWA Example Project",  
  "short_name": "PWAEX",  
  "start_url": "/",  
  "icons": [  
    {  
      "src": "assets/images/logo.png",  
      "sizes": "144x144",  
      "type": "image/png"  
    }  
  ],  
  "display": "standalone"  
}
```



## START\_URL

```
{  
  "name": "PWA Example Project",  
  "short_name": "PWAEX",  
  "start_url": "/",  
  "icons": [  
    {  
      "src": "assets/images/logo.png",  
      "sizes": "144x144",  
      "type": "image/png"  
    }  
  ],  
  "display": "standalone"  
}
```

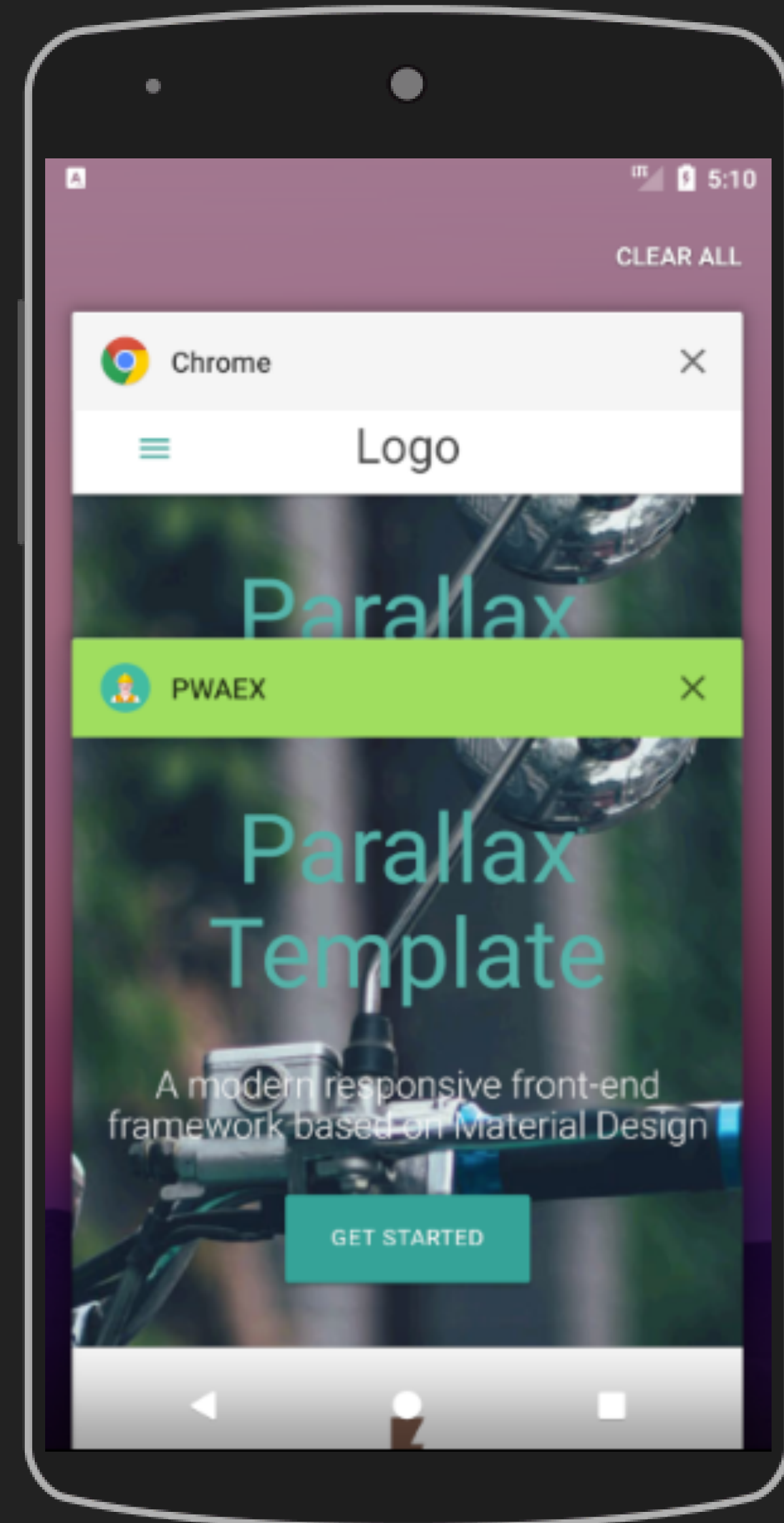
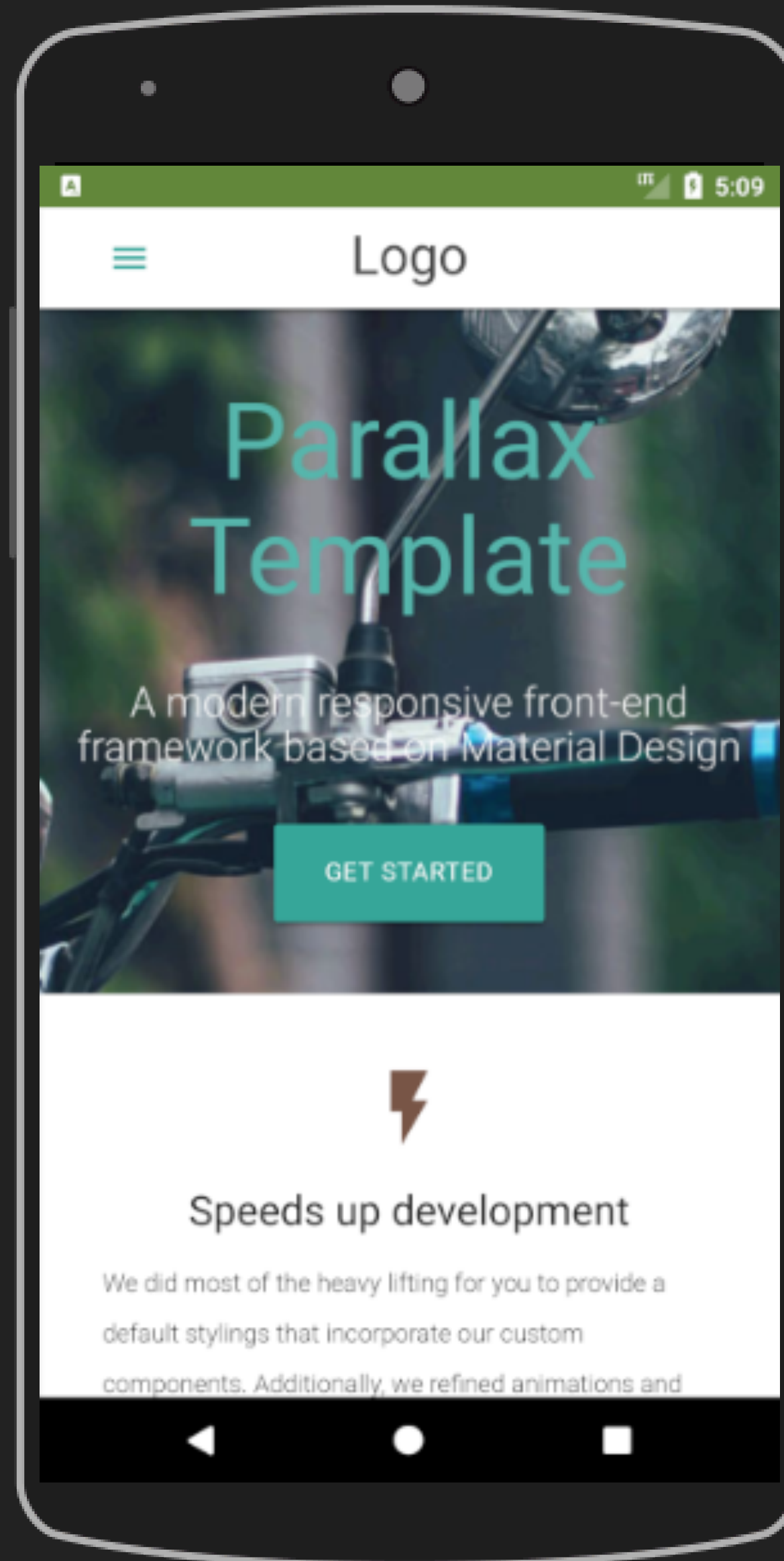


# OTHER PROPERTIES

- ▶ background\_color, theme\_color, orientation, display, etc...
- ▶ <https://developer.mozilla.org/en-US/docs/Web/Manifest#Members>



## WITH WEB APP MANIFEST



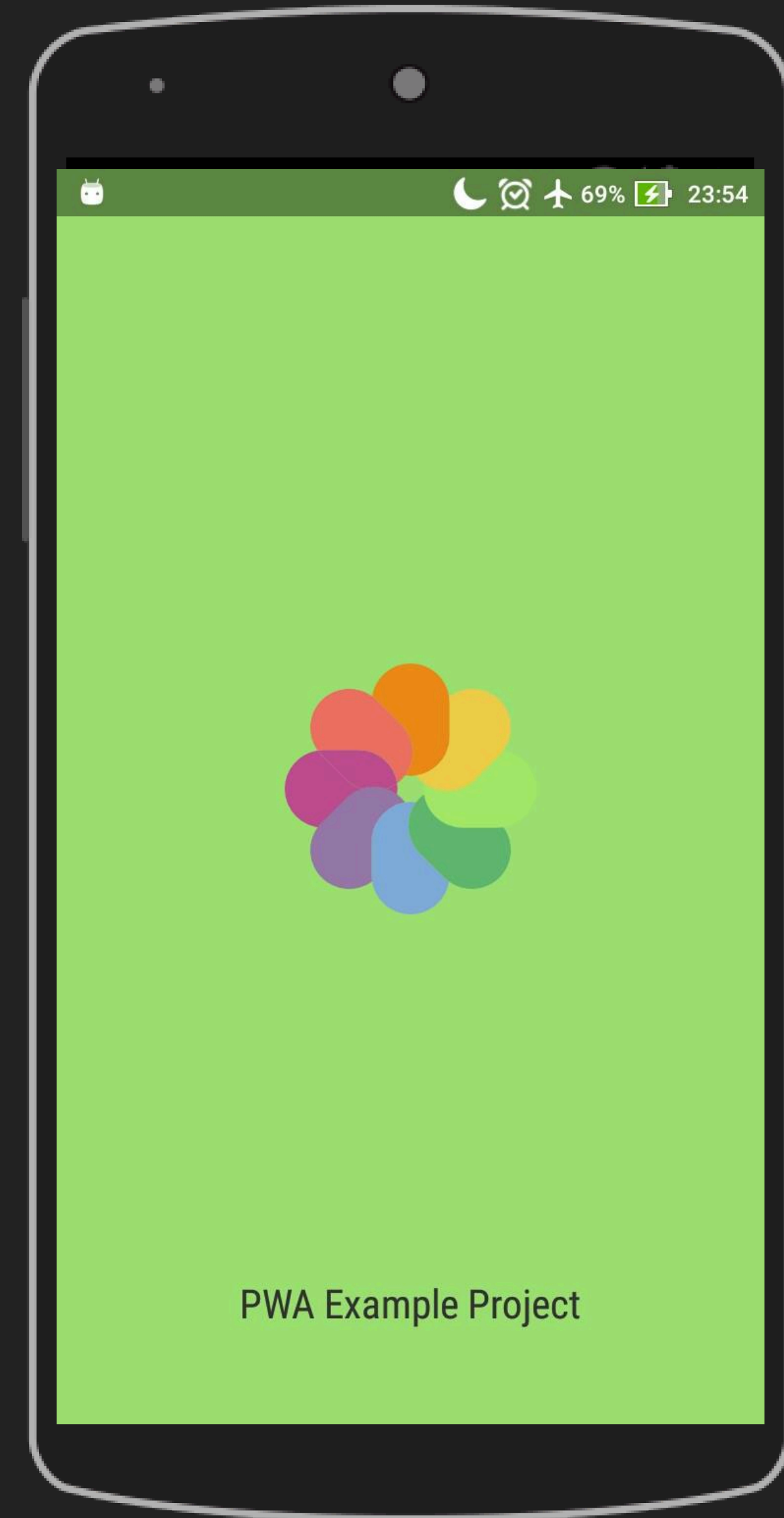
WEB APP MANIFEST

---

**SPLASH SCREEN**

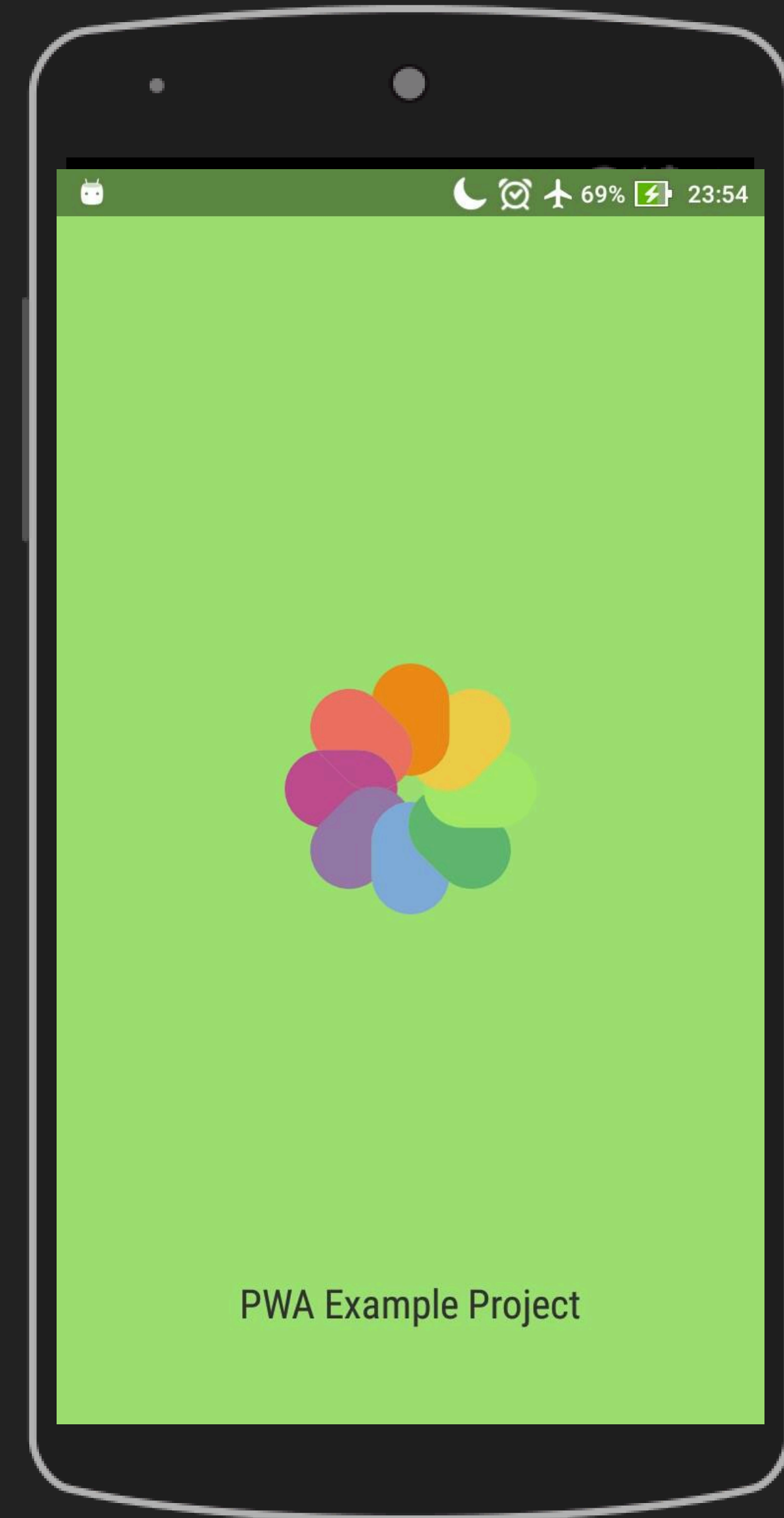


## SPLASH SCREEN



## CRITERIA

- ▶ Has a **web app manifest** with properties
  - ▶ name
  - ▶ background\_color
  - ▶ 512x512 png icon



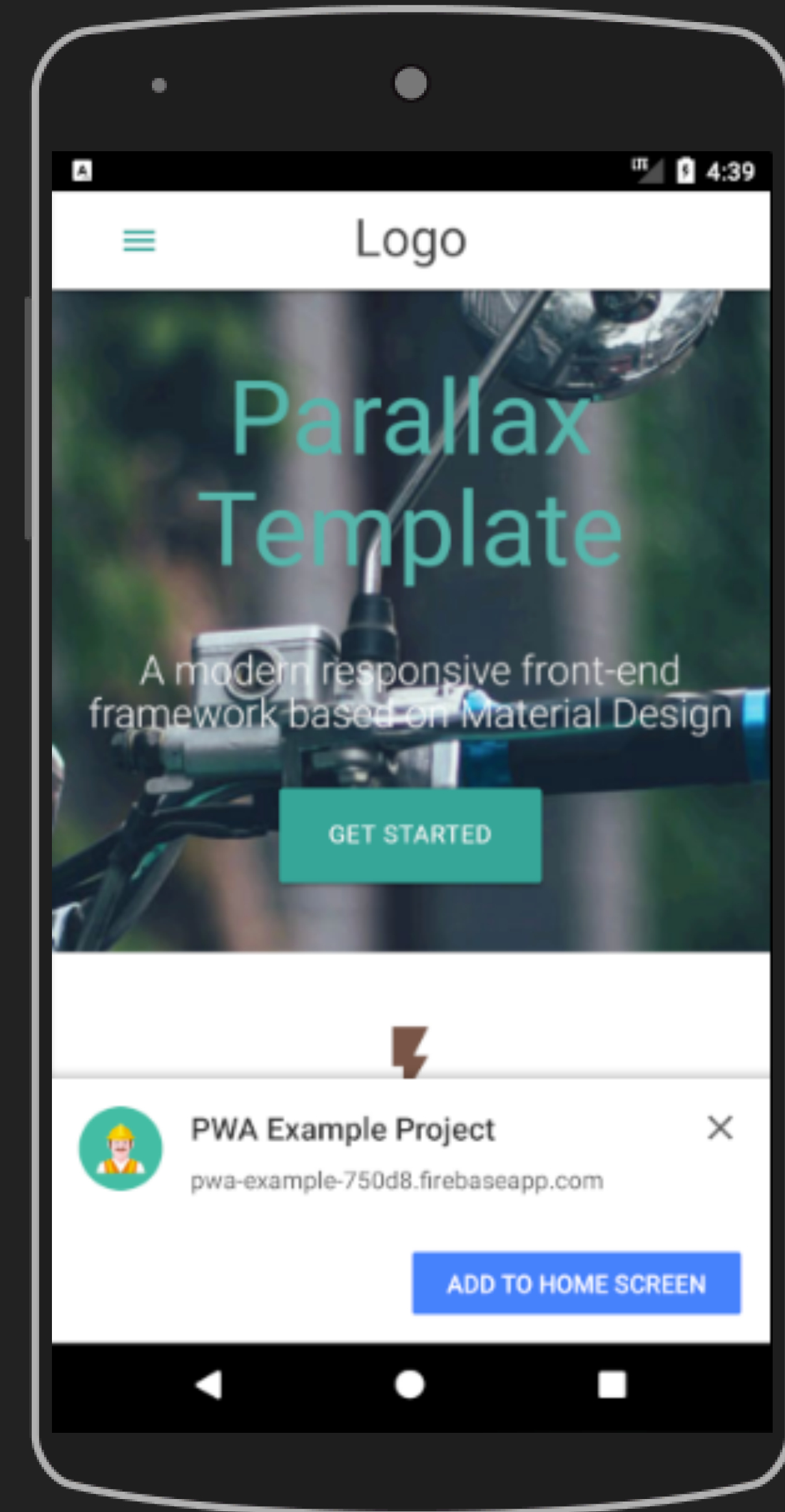
WEB APP MANIFEST

---

**WEB APP INSTALL BANNERS**

# WEB APP INSTALL BANNERS

- ▶ Prompt to add website to homescreen



# CRITERIA

- ▶ Has a **web app manifest** with properties
  - ▶ short\_name
  - ▶ name
  - ▶ 144x144 png icon
  - ▶ start\_url
- ▶ Has a **service worker registered**
- ▶ Served over **HTTPS**
- ▶ Is **visited at least twice**, with at least five minutes between visits

WEB APP MANIFEST

---

**BROWSER SUPPORT**

# BROWSER SUPPORT

Desktop	Mobile
Feature	Android Android Webview Firefox Mobile (Gecko) IE Mobile Opera Mobile Safari Mobile Chrome for Android
Basic support	No support39.0?32.0?39.0
background_color	No support46.0[1]?(Yes)?46.0 [1]
theme_color	No support46.0[1]?No support?46.0 [1]
icons, name, short_name, and theme_color used for Add to home screen feature.	?(Yes)53.0 (53)[2]?No support? (Yes)
display-mode	?(Yes)47.0 (47)[3]No support? (Yes)

# SAFARI MOBILE

```
<meta name="mobile-web-app-capable" content="yes">
<meta name="apple-mobile-web-app-capable" content="yes">
<meta name="application-name" content="PWAEX">
<meta name="apple-mobile-web-app-title" content="PWAEX">

<link rel="icon" type="image/png" sizes="144x144" href="assets/images/icon.png">
<link rel="apple-touch-icon" type="image/png" sizes="144x144" href="assets/images/icon.png">
```



# WEB APP MANIFEST GENERATOR

- ▶ <https://tomitm.github.io/appmanifest/>

# EXAMPLE PROJECT

- ▶ GitHub - <https://github.com/aofleejay/pwa-example/tree/step/1-web-app-manifest>
- ▶ Website - <https://pwa-example-750d8.firebaseio.com/>

## FEEDBACK

► <http://bit.ly/2flLVvf>