



# **Easierphone**

## **App platform to enable and empower seniors with smartphones**

D4.4 API & design guidelines for 3rd parties



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## **Easierphone**

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## **Executive Summary**

Easierphone allows 3rd party developers to develop applications which integrate with Easierphone and Easierphone Assistant app.

The Application "Trends" was developed as a 3rd party application by UniGe and can be added within the Easierphone app.

3rd party applications have to be approved by Easierphone.

This document lists design guidelines and technical guidelines for 3rd party apps

# Integration guideline for third party applications

Easierphone is prepared to allow approved third party applications to integrate by requesting a login token and refresh token pair from the Easierphone backend through the Easierphone Supportee Android Application. It also provides some backend endpoint available to authorized applications.

## Process of authentication

An third party application interested in authenticating to the Easierphone backend service will need to go through the following steps:

1 - Contact Easierphone to register the package of the application that will be seeking this connection.

2- Esierphone will add this package as authorized to the Android Supportee Application and the Easierphone backend services.

3 - The third party can start the Activity by calling an Intent and registering for result as follows:

```
private val connectionActivityResultLauncher =
    registerForActivityResult (ActivityResultContracts.StartActivityForResult()) {
        result ->
            when (result.resultCode) {
                Activity.RESULT_OK -> {
                    result.data?.let {
                        val accessToken =
                            it.getStringExtra(CONNECTION_ACCESS_TOKEN_EXTRA)
                                .orEmpty()
                        val refreshToken =
                            it.getStringExtra(CONNECTION_REFRESH_TOKEN_EXTRA)
                                .orEmpty()
                        val userId =
                            it.getStringExtra(CONNECTION_USER_ID_EXTRA)
                                .orEmpty()
                        //Save results to datastore
                        accessToken, refreshToken, userId
                    }
                }
            }
            else -> {
                //Handle failed result
            }
    }
}
```

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```

private fun getThirdPartyCredentials() {
    try {
        connectionActivityResultLauncher.launch(Intent().apply {
            setClassName (
                CONNECTION_PACKAGE_NAME,
                CONNECTION_CLASS_NAME
            )
        })
    } catch (exception: ActivityNotFoundException) {
        //Handle Exception
    }
}
}

```

The Easierphone connection activity will check if the calling package is coming from a third party application registered with Easierphone. If this is the case, a response to this Intent will hold three parameters as extras as follows:

```

resultIntent.putExtra("accessToken", it.accessToken)
resultIntent.putExtra("refreshToken", it.refresh_token)
resultIntent.putExtra("userId", it.userId)

```

As from this moment the third party app is logged in and can refresh its token by means of the following endpoint:

GET `{{baseUrl}}/api/integration/v1/refresh?refreshToken={{refreshToken_third}}`

At the moment the only available endpoint to interact with the backend is:

GET `{{baseUrl}}/api/integration/v1/check?targetUserId={{userId}}`,

This returns a 200 if the user is calling it is a valid assistant of the userID sent as parameter. This endpoint is used by Trends on the Assistant side in order to allow the assistant to view data for the supportee.

## Sharing Data with Easierphone Assistant app

# Design guidelines

## General

Easierphone design strives to be simple and accessible. Below are some of the main design elements that we recommend for apps to integrate with Easierphone.

## Font Size

Easierphone uses fixed font sizes.

## Icons & Text

Whenever possible, Icons are used with a text label to describe what they mean

## Top Menu Items & Navigation

The Top navigation bar includes a back arrow when needed, the title and a 3-dot menu to access more options

## Bottom Bar

The Android bottom bar is used. The color styling of the bottom bar is the same as in Whatsapp.

## Recommended Apps

Recommended 3rd party Apps are listed in the **Add App -> Recommended** section

## Dark Mode

Examples of Easierphone in dark mode:

## Design details

Upon request, access to the Figma design file of Easierphone is available. Please contact [robert@pappy.ch](mailto:robert@pappy.ch)

## Screen examples

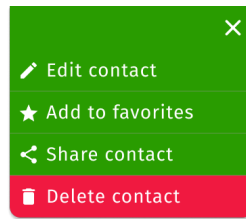
Menu bar in App color



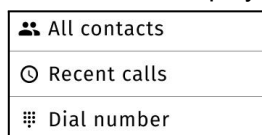
Top Menu Items:



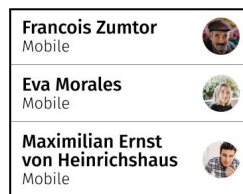
3-dot menu:



Icons & Text display



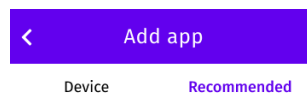
Fixed font size. Cells grow larger when needed.



Bottom Bar

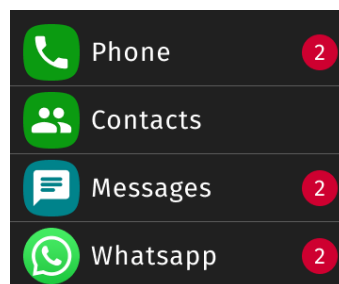


Recommended Apps



Device Recommended

Dark Mode



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