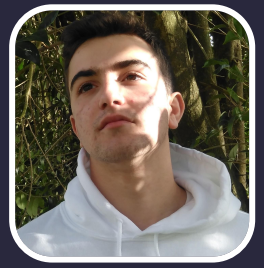
/FotoFaces

Licenciatura em Engenharia Informática
Projeto de Informática
Grupo 01

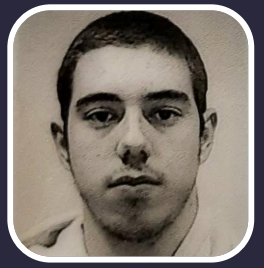
/Team


Vicente Costa


Pedro Lopes


Filipe Gonçalves


João Borges


Gonçalo Machado

Advisors


António Neves


José Vieira


Daniel Canedo

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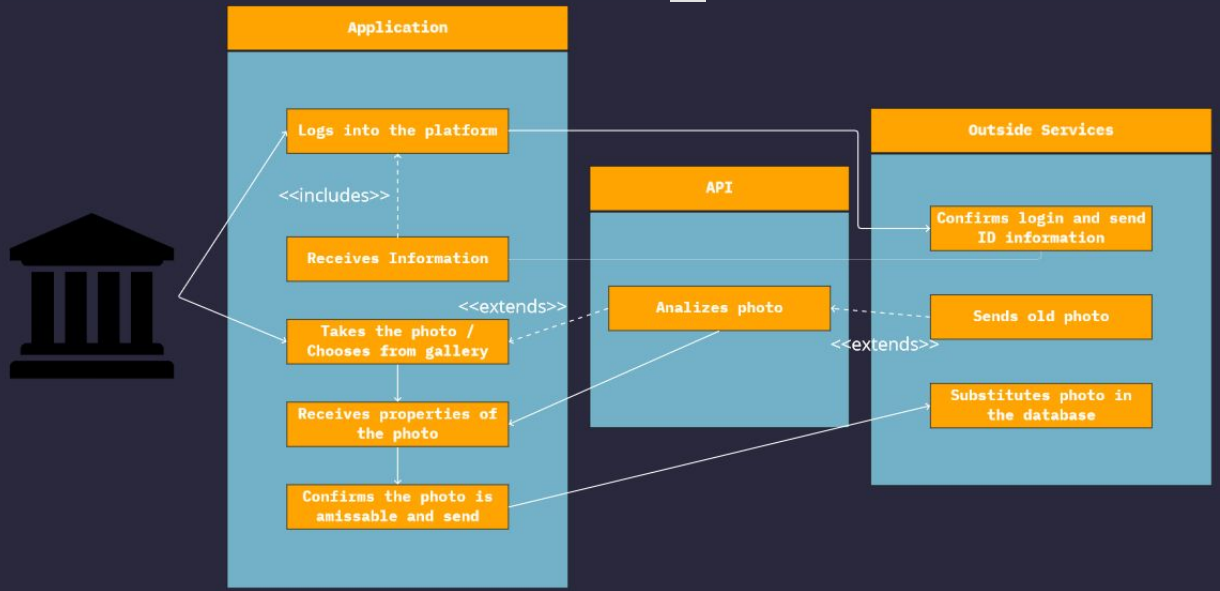
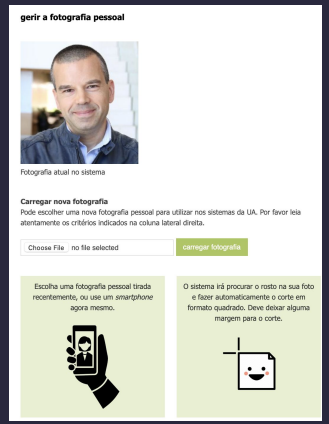
/01 → /Actors

Employees

Human Resources
Representatives

/02 ⟶ /Use_Cases


Application
Logs into the platform
<<includes>>
Receives Information
<<extends>>
Takes the photo / Chooses from gallery
Receives properties of the photo
Confirms the photo is amissable and send
API
Analizes photo
Outside Services
Confirms login and send ID information
Sends old photo
<<extends>>
Substitutes photo in the database


gerir a fotografia pessoal
Fotografia atual no sistema
Carregar nova fotografia
Pode escolher uma nova fotografia pessoal para utilizar nos sistemas da UA. Por favor leia atentamente os critérios indicados na coluna lateral direita.
Choose File
no file selected
carregar fotografia
Escolha uma fotografia pessoal tirada recentemente, ou use um smartphone agora mesmo.
O sistema irá procurar o rosto na sua foto e fazer automaticamente o corte em formato quadrado. Deve deixar alguma margem para o corte.

/03 → /Requirements

/03.1 → /Non-Functional

- Scalability - When many users use the API at the same time
- Reliability - It shouldn’t crash all the time
- Availability - Always available to any user
- Maintainability - Maintain documentation and infrastructure
- Usability - Intuitive application

/03 ⟶ /Requirements

/03.2 ⟶ /Functional -> Mobile App -> User

The system must allow the user to:

- Login with username and password (or SSO)
- Check his current photo
- Check the properties needed for a photo to be valid
- Pick between taking a live photo or choosing a photo from the gallery and do one of them
- Choose between updating a valid photo, going back to the last menu or return to the main page

/03 ⟶ /Requirements

/03.2 ⟶ /Functional -> Mobile App -> System

The system must:

- Send a photo and the user ID to the FotoFaces API
- Receive a JSON from the FotoFaces API with the validation properties
- Check the validity of a photo (based on its properties)
- Show the user if the chosen photo is valid

/03 → /Requirements

/03.2 → /Functional -> FotoFaces

The system must:

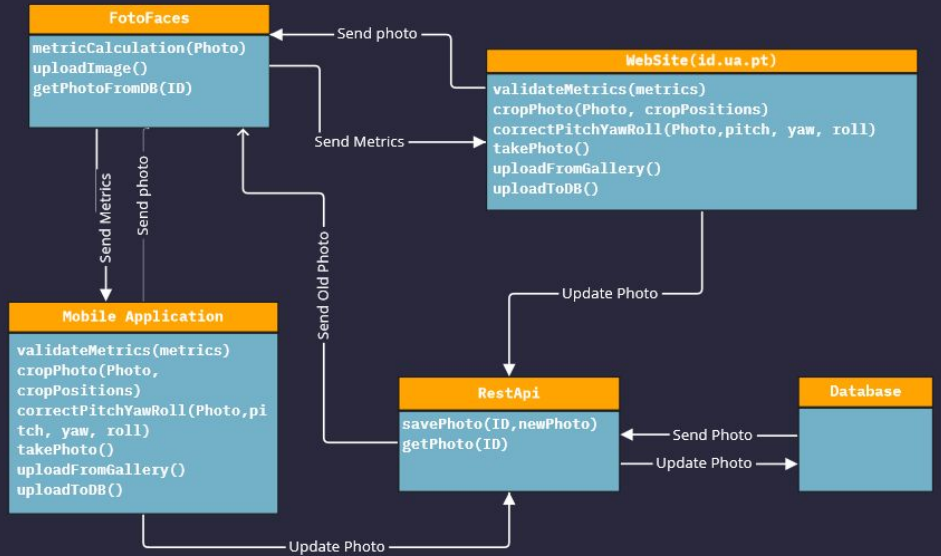
- Be able to receive a photo and an user ID
- Get the user old photo from the database
- Compare the photos and check if it’s the same person
- Detect a series of properties from the new photo
- Send the detected properties in a JSON format to the user
- Allow for plugins to be added for detection of more properties

/04 ⟶ /State_Of_Art

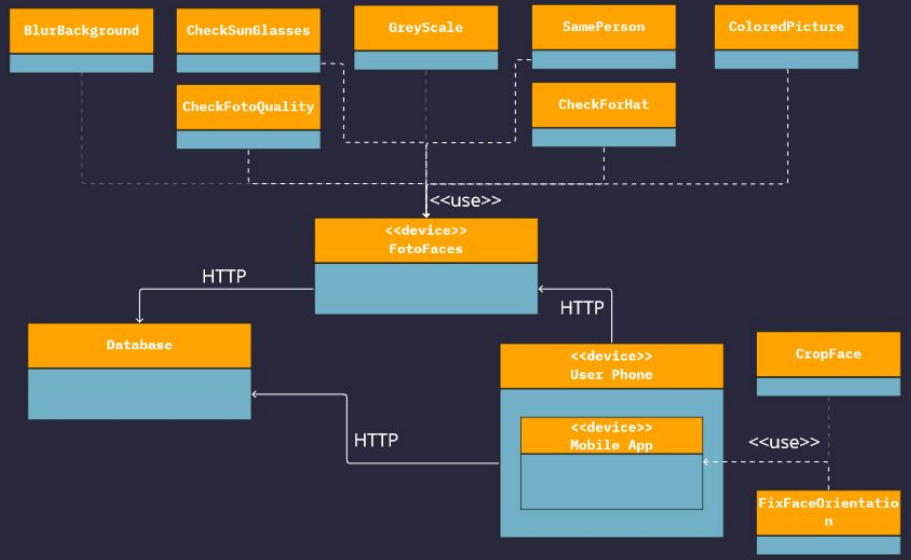
/04.1 ⟶ /FotoFaces -> Properties

- Face Recognized
- Frontal Face
- Eyes Open
- Hat
- Glasses
- Sunglasses
- Photo Brightness
- Photo Quality
- Blurred
- Colored
- Cropped
- Liveliness

/05 → /Domain_Model



/06 → /Deployment

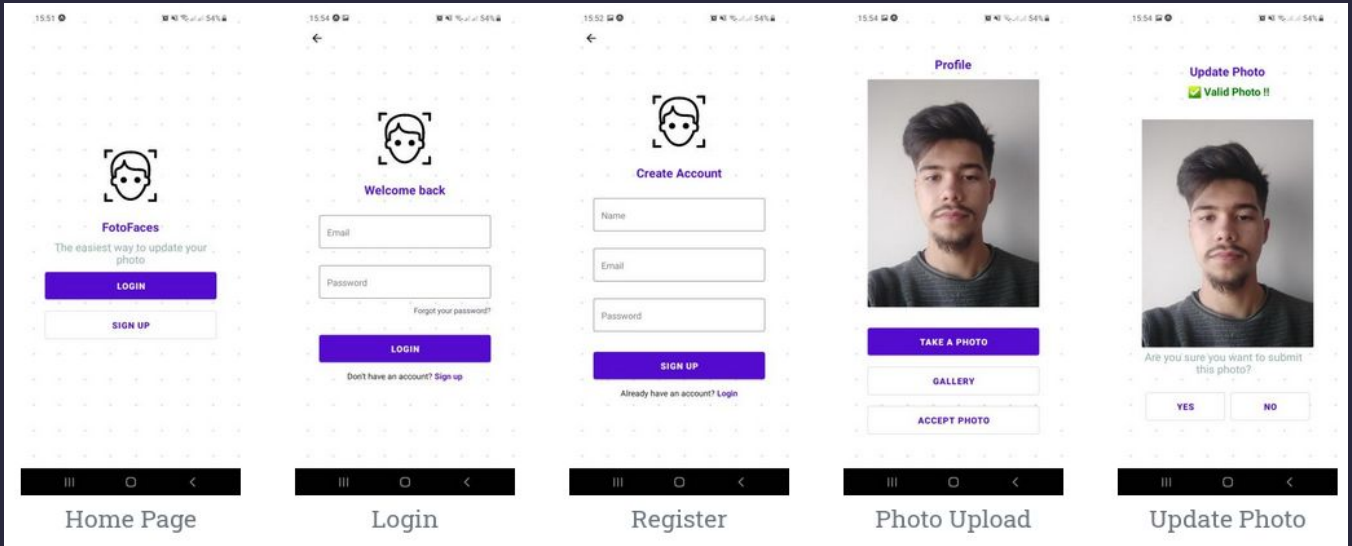


/07 → /Database

Currently the database that is being used by FotoFaces belongs to the UA and we don’t have full access for testing purposes.

To solve this, we will create a mock database that simulates the UA database.

/08 ⟶ /Mock_Ups


FotoFaces
The easiest way to update your photo
LOGIN
SIGN UP
Home Page
Welcome back
Email
Password
Forgot your password?
LOGIN
Don't have an account? Sign up
Login
Create Account
Name
Email
Password
SIGN UP
Already have an account? Login
Register
Profile
TAKE A PHOTO
GALLERY
ACCEPT PHOTO
Photo Upload
Update Photo
Valid Photo !!
Are you sure you want to submit this photo?
YES
NO
Update Photo