



AIIdentifyAGE Web Application

User Manual

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The AIIdentifyAGE project is financed under grant 2024.07444.IACDC, within the scope of the investment “RE-C05-i08 – More Digital Science”, measure “RE-C05-i08.M04 – Support a program of R&D projects for development and implementation of advanced cybersecurity, artificial intelligence and data science systems in public administration, as well as a scientific capacitation program”, within the scope of the agreement between the Recover Portugal Mission Structure and the Fundação para a Ciência e a Tecnologia I.P. (FCT), as an intermediary beneficiary.

Acknowledgements & Research Team

AIdentifyAGE would like to thank the **University of Lisbon** for contributing the imaging datasets and annotations used in this research. The app was designed and organized by the **AIdentifyAGE** Research Team:

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Chapter 1

Dataset Description Models

Subject Age Range

The AIIdentifyAGE app should be used with Digital OPG from subjects aged 5 to 25 years.

1.1 Imaging Modality

Ortopantomography

Preferred name: Digital OPG

1.2 Annotation Pattern

The annotation pattern followed a whole-study labelling approach. Each radiographic examination received a single ground-truth label corresponding to the individual's chronological age. These labels were subsequently used both for continuous age regression modelling and for categorical age-threshold classification.

1.3 Annotation Methodology and Structure

- **Method of annotation:** Manual
- **Annotation output:** Spreadsheet (alphanumeric)

1.4 Structure Nomenclature and Standards

Variable: Dental age in years

Name: Dental age

Definition: The dental age assessment in years

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Unit: Years

1.5 Data Use Agreement/Licensing

Non-commercial purpose

1.6 Imaging File/Structure Set Format

Radiographic examinations were exported in **JPEG (.jpg)** format following standardized preprocessing. Original imaging data were acquired in **DICOM** format and subsequently converted to high-resolution JPEG for model training.

1.7 Number of Images

- **Training:** 6,870
- **Validation:** 1,472
- **Test:** 1,474

1.8 Demographic Data of Patients

Classification models use the same total sample. The random split into training, validation, and testing sets yields subsets with similar demographic characteristics.

Training Sample (n = 6,870)

Group	n	Mean (SD) Years	Min Years	Max Years
Female	3,312	15.28 (5.41)	5.02	25.99
Male	3,558	14.41 (5.27)	5.01	25.98
Total	6,870	14.83 (5.35)	5.01	25.99

Validation Sample (n = 1,472)

Group	n	Mean (SD) Years	Min Years	Max Years
Female	730	15.29 (5.37)	5.04	25.92
Male	742	14.60 (5.18)	5.30	25.88
Total	1,472	14.95 (5.29)	5.04	25.92

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Test Sample (n = 1,474)

Group	n	Mean (SD) Years	Min Years	Max Years
Female	717	15.25 (5.36)	5.07	25.84
Male	757	14.15 (5.27)	5.04	25.93
Total	1,474	14.69 (5.34)	5.04	25.93

1.9 Image Characteristics

- The resolution was normalized across all images.
- All burned-in protected health information (PHI) was removed.

1.10 Labeler Demographics

- **Scope of annotation:** Multi-institutional
- **Number of annotators:** Three dentists
- **Expertise:** Licensed dental practitioners with experience in dental radiographic interpretation.

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Chapter 2

Introduction

Welcome to **AIIdentifyAGE Web Application**. This guide will walk you through setting up your account and mastering the core features of our web-based platform.

Pro Tip

For the best experience, we recommend using the latest version of Chrome or Firefox.

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Chapter 3

Getting Started

3.1 Landing Page

When you arrive at the AIdentifyAGE Web Application <https://app.aidentifyage.campus.ciencias.ulisboa.pt>, you will find the application's landing page. Here you will find information about the project website, the GitHub repository where all project code is stored (including this application), and brief details on the available models. You also have all the necessary information regarding the **AIdentifyAGE Dental Age Assessment Terms of Use and Acknowledgments** and the *Dataset Description Models*, both of which are useful if you intend to use our app.

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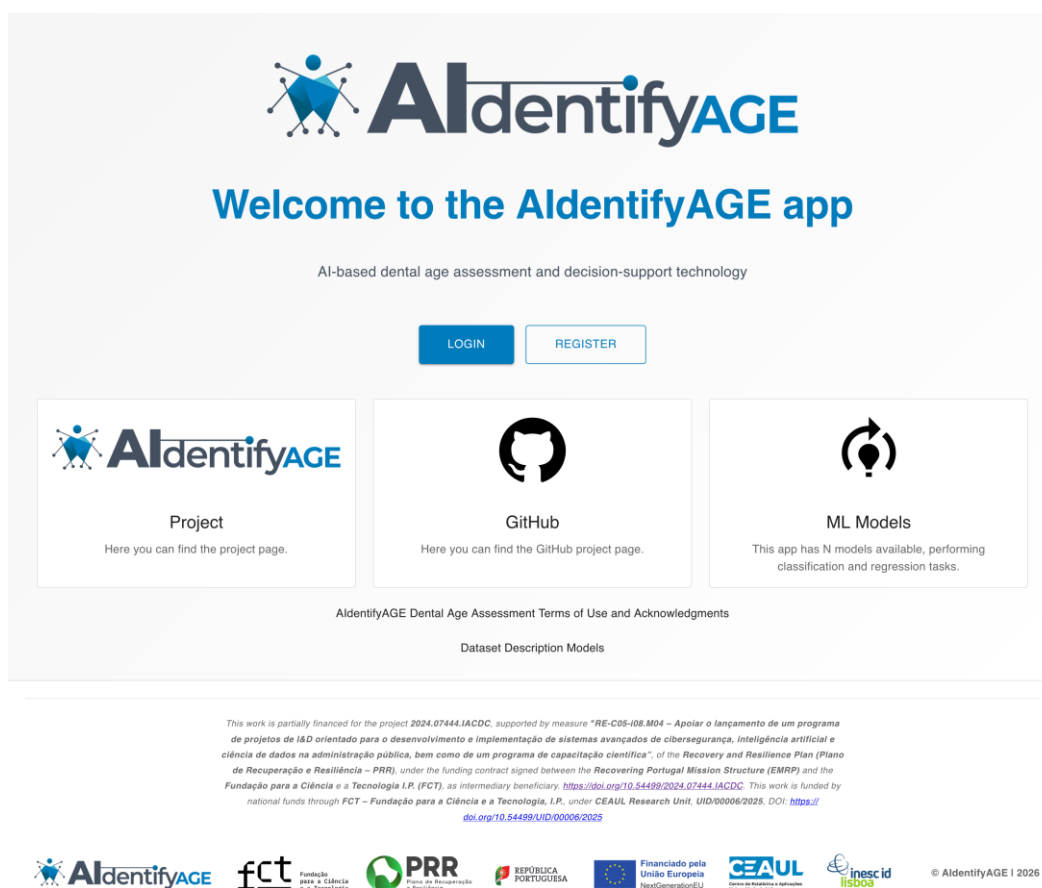


Figure 3.1: The Application Landing Page

3.2 Creating an Account

To get started, navigate to <https://app.aidentifyage.campus.ciencias.ulisboa.pt/sign-up>. Here you will need to provide a valid email address and define a secure password. Your account password should match the following requirements: have a minimum of 8 characters, contain at least one letter, at least one number, and at least one special character.

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Sign up

Email
your@email.com

Password

SIGN UP

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fct Fundação para a Ciência e a Tecnologia PRR Plano de Recuperação e Resiliência REPÚBLICA PORTUGUESA Financiada pela União Europeia NextGenerationEU CEAUL Centro de Estatística e Aplicações Universidade de Lisboa inesc id lisboa © AIdentifyAGE | 2026

Figure 3.2: The Signup Form

3.3 First Login

Once you've successfully created your account, you will be redirected to the login page <https://app.aidentifyage.campus.ciencias.ulisboa.pt/login>. Here you can perform the login operation with the credentials you defined during the account creation.

The Forgotten Password

Given that this is an early stage demonstrator app, no “forgot password” mechanism is yet available, so please note down your password somewhere safe.

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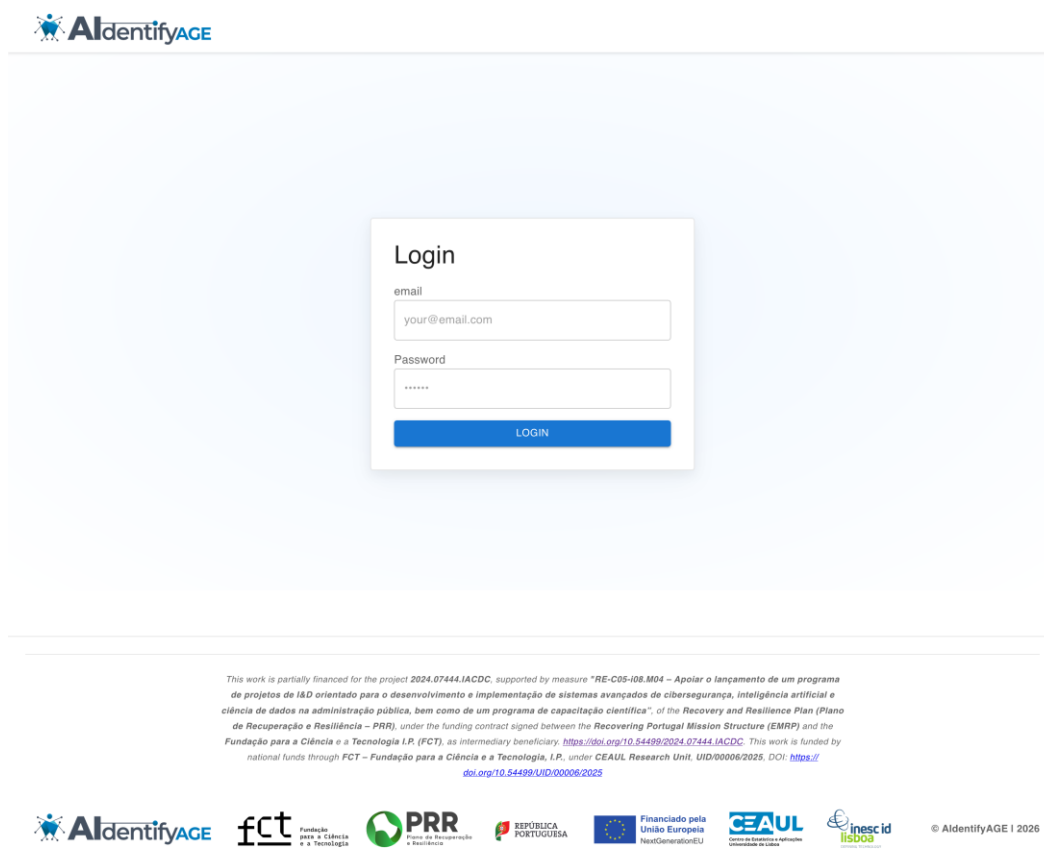


Figure 3.3: The Login Form

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Chapter 4

Core Features

4.1 Dashboard Overview

Your dashboard is the "mission control" for your data. On the top navigation bar, you can observe the following options:

- **DATA COLLECTIONS**, where you can navigate to your data collections. In this context, a data collection is a dataset of **Forensic Cases** you might want to keep together.
- **REPORTS**, where you can visualize the results both from using a machine learning approach (classification in legal thresholds or regression of age), and from applying the current methods.
- **User Settings**: Accessible via the avatar in the top right. There, you can return to your dashboard or perform the logout operation, closing your current session on the app.

The cards presented below give you information regarding:

- **Total Collections**, presenting the total number of collections you have access to (owned and shared with you). By clicking this card, you can also navigate to your data collection browser page.
- **Total Images**, presenting the total number of images you have access to. By clicking this card, you can also check the image distribution by data collection.
- **Total Reports**, presenting the total number of reports available, both from machine learning approaches as well as from the current methods. By clicking this card, you can also navigate to your reports browser page.

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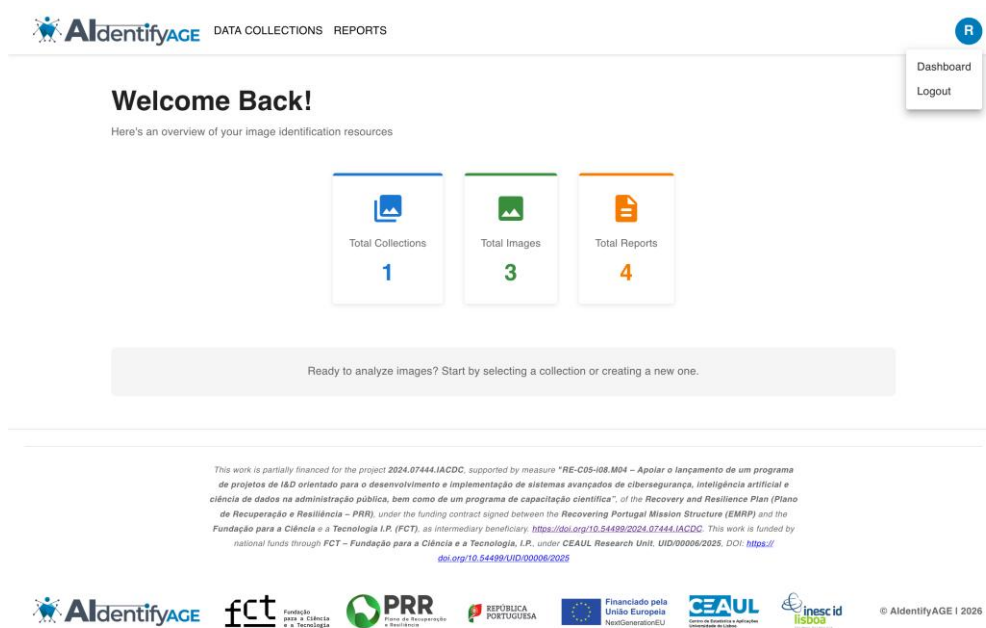


Figure 4.1: Navigating the User Dashboard

4.2 Data Collections Overview

Here, you can navigate two sets of collections: owned by you and shared with you. In the following image, you can see a previously created collection called **ExampleCollection1**, but you can create it with a name more relevant to you.

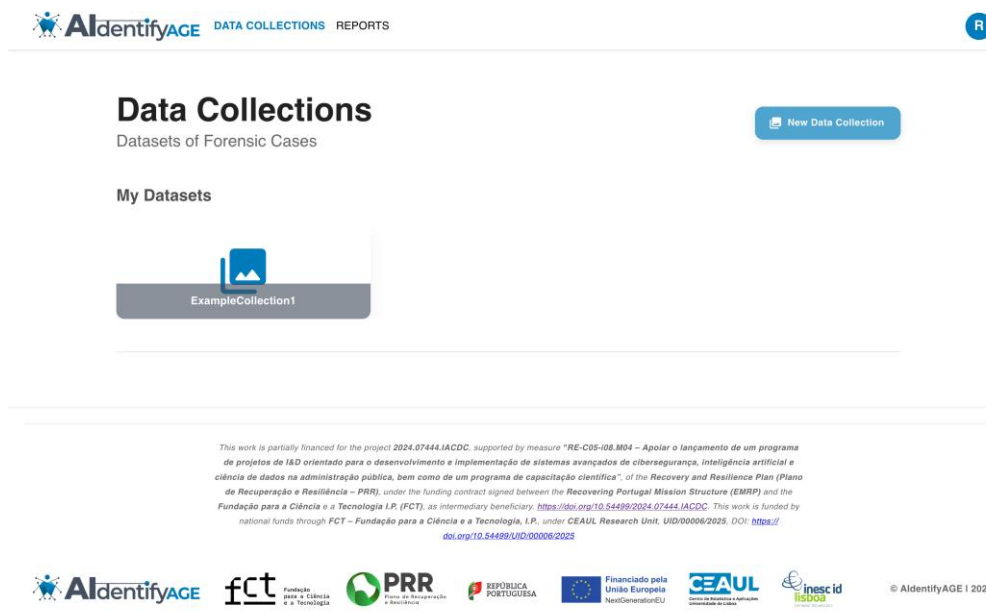


Figure 4.2: The Data Collections Browser Page

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You can also see a button on the right-hand side of the screen called “New Data Collection”. Use it to create a new data collection, specifying:

- Mandatory
 - Data Collection Name
- Optional
 - Data Collection Description

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Figure 4.3: The Create Data Collection Form

4.3 Forensic Cases Overview

When you select a given **Data Collection**, you will enter a page like this. Here you can check all the associated **Forensic Cases**. On the right-hand side, you have two buttons, one called “New Forensic Case” used to create a new **Forensic Case** and another called “Actions” where you can add or remove users to the current **Data Collection**.

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Figure 4.4: The Forensic Cases Browser Page

To create a new forensic case, you will need to specify the following information:

- **Mandatory**
 - Forensic Case Number
 - Forensic Examination Date (formatted in yyyy-mm-dd)
 - Forensic Examination Time (formatted in HH:mm)
 - The time is shown in 24-hour format
 - Forensic Examination Location
 - Forensic Expert ID
 - Individual Name
 - Individual Provided Birth Date (formatted in yyyy-mm-dd)
 - Individual Reported Age (in years)
 - Individual Sex (available options are ‘m’, ‘male’, ‘f’ or ‘female’)
 - Population Affinity

To add a user, you simply need to specify the email address associated with the user you want to add.

Data Collection Group

Every **Data Collection**, when created, gets a default group associated with it, usually called “<CollectionName>-default”.

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Sharing a Data Collection

Be aware that, as a **Data Collection** owner, you are responsible for the users you add to your **Data Collection**, as it might contain sensitive information regarding **Forensic Cases**.

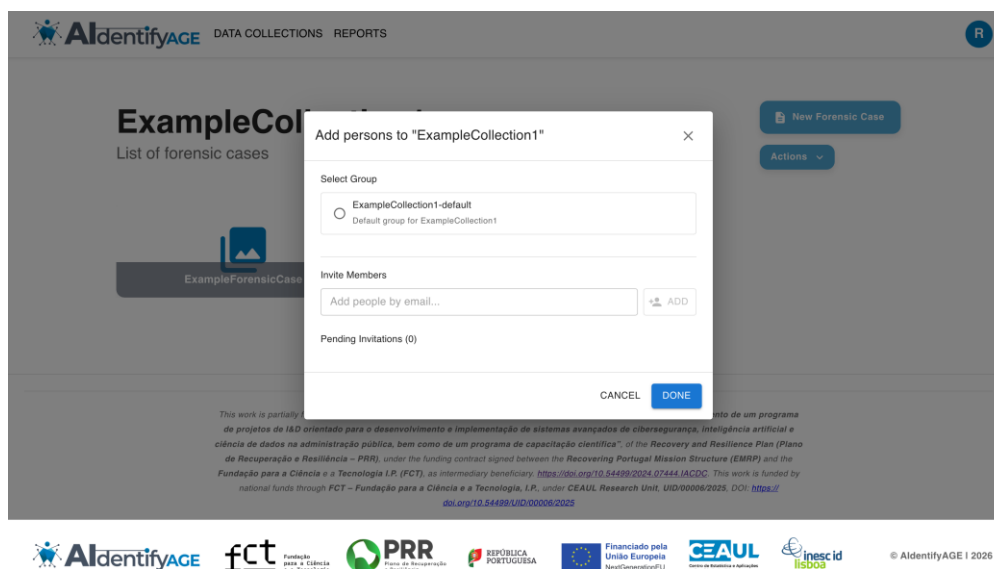


Figure 4.5: The Add Person Dialog box

To revoke a user's access to a given **Data Collection**, you choose the user you intend to remove and confirm the intent.

Revoking Access to Yourself

Note that if you revoke the **Data Collection** default group, your access will be revoked and you will no longer be able.

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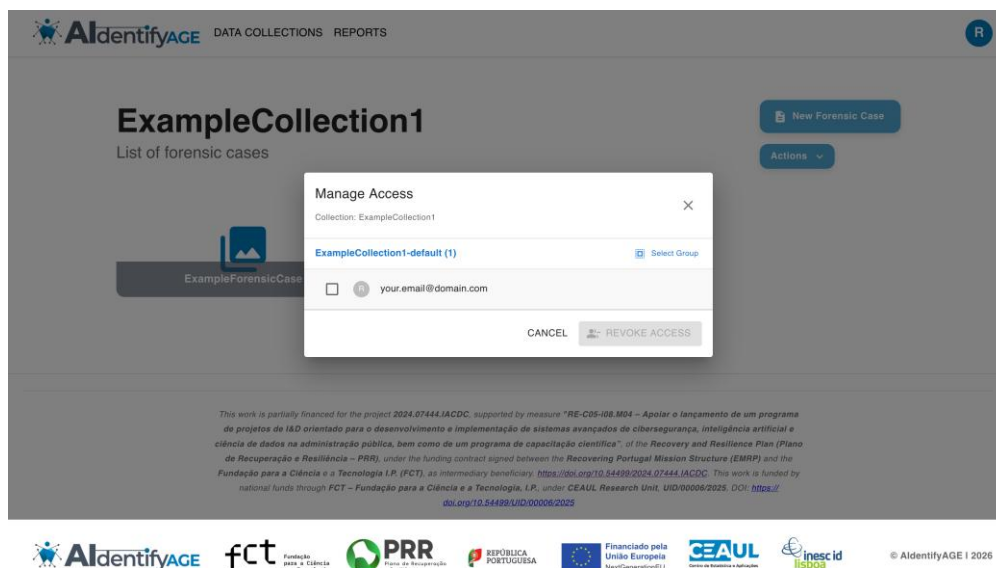


Figure 4.6: The Remove Person Dialog Box

4.4 Forensic Case Detail Overview

When you select a given **Forensic Case**, you will enter a page like this. Here you can check all the associated Orthopantomograms (OPGs). On the right-hand side, you have a single button called “Actions” where you can add a new image, enter the manual classification mode, request a machine learning run, or remove the selected OPGs. In this screen, you can also see an example OPG (the one that is selected). You also have the possibility to select multiple OPGs, and they can be viewed one after the other, if you scroll down in the preview area.

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Figure 4.7: The Forensic Case Detail Page

To add a new OPG to the Forensic case, you will need to provide the following information:

- **Mandatory**
 - An OPG image file (we suggest a PNG file format, but the common image file formats are acceptable)
 - Description (it will default to the image name if don't want to change the field contents)
 - OPG taken date time (formatted in yyyy-mm-dd)

Button to Add a New Image

The button inside the “Add Image” action will only be enabled if you provided all the necessary mandatory elements.

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Figure 4.8: The Add Image to Forensic Case Form

If you select the action “Remove Image” you will be prompted to confirm if you want to delete the selected OPG images.

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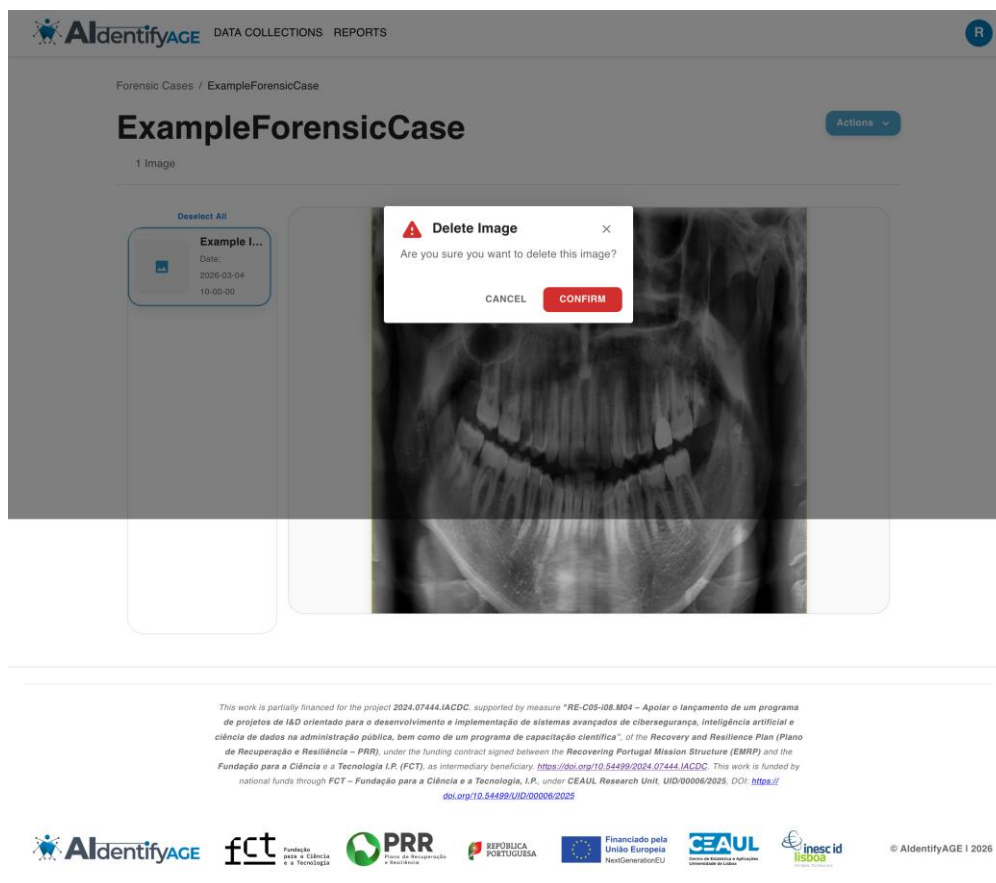


Figure 4.9: The Remove Image Confirmation Prompt

If you select the action “Run Models”, a dialog box will be presented showing the available machine learning models, grouped by the task they perform (classification or regression) and the corresponding version. For classification models, you will also need to choose the Legal Age Threshold you are interested in comparing your data against. After you confirm the models you intend to run, a new inference job will be created and processed when resources are available. After all models ran and produced their results, a new “**Inference Run**” **Report** (or multiples if you selected more than one model) will be available in the **Reports** tab.

Getting the Combined Model Results

You are free to choose which models you want to execute on the selected OPG images, but for the purpose of having a combined result for the models you should choose at least three models from the regression task (currently the only ones).

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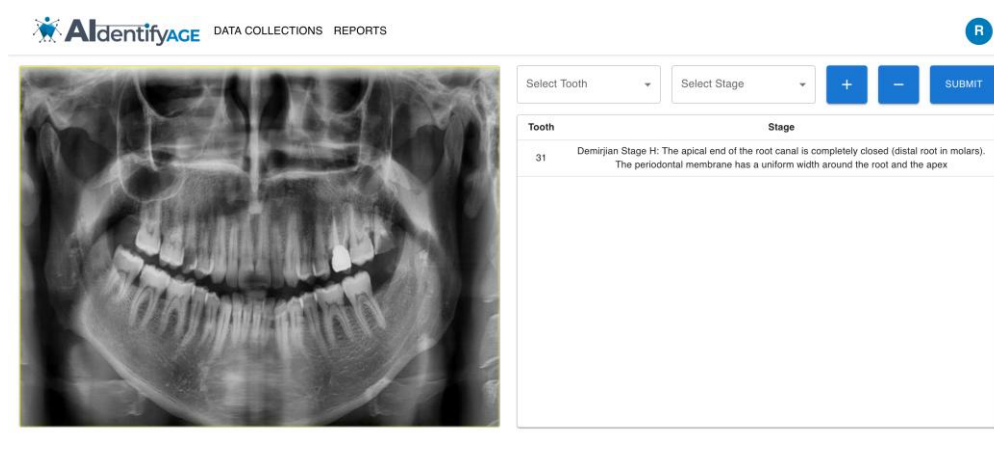
Running Multiple Models

The available models are somewhat heavy to load, given its complexity. That being said, only run the models you really intend on analyzing the results. Take also in consideration that having the results ready can take a bit more time than what is expected (especially in heavy load conditions).

If you select the action “Manual Classification” you will be redirected to the “Manual Classification Page”. Here you can see the selected OPG, as well as two drop-down menus, the first allows you to select the tooth from the FDI Tooth Numbering System (or ADA Universal Tooth Numbering System), and the second one allows you to select the tooth development stage. You can choose from the following options: Demirjian Stages, Gleiser & Hunt Stages, Havvikko Stages, Kullman Stages, and Moorrees, Fanning & Hunt Stages.

Selecting Stages

If you selected a Stage from one of those **Scoring Systems**, all the following tooth stages will follow the same **Scoring System**.



Tooth	Stage
31	Demirjian Stage H: The apical end of the root canal is completely closed (distal root in molars). The periodontal membrane has a uniform width around the root and the apex

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Figure 4.10: The Manual Classification Page

After each Tooth-Stage pair selected you can click the plus button to add, or the minus button to remove the last one. When all tooth stages are defined you can press the “Submit” button to confirm, opening the “Manual Assessment Form”.

Here you will need to fill the following information:

- Mandatory

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- Sex (you have a drop-down menu with the available options)
- Method (here you can select which reference study against which you want to analyze your data)
- Legal Threshold (to which you want to compare your forensic case individual)
- Reported Age

The screenshot displays the 'Enter Details' form within the AIdentifyAGE interface. The form is overlaid on a dental X-ray image. The form fields are as follows:

- Sex:** A dropdown menu.
- Method:** A dropdown menu.
- Legal Threshold:** A dropdown menu with the value '10' selected.
- Reported Age:** A text input field with the value '0' and a small icon to the right.

At the bottom of the form, there are 'CANCEL' and 'SAVE' buttons. The background interface shows 'DATA COLLECTIONS' and 'REPORTS' tabs, and a 'SUBMIT' button. Below the form, there is a small text block providing funding information and a DOI link.



Figure 4.11: The Manual Assessment Form

After you confirm this form, a new **“Manual Assessment” Report** is going to be created, and you can it later in the **Reports** tab.

4.5 Reports Overview

Here, you can navigate the set of available reports. Those can be provided from ML model runs you requested or your own manual assessments. You can select a given **Report** to see its contents. The following images show three **Reports** corresponding to each of the regression models. It is also presented the contents of one of the **Reports**. These contents include age assessment metrics relevant for forensic/judicial procedures and also include a heatmap image, promoting the ML models explainability.

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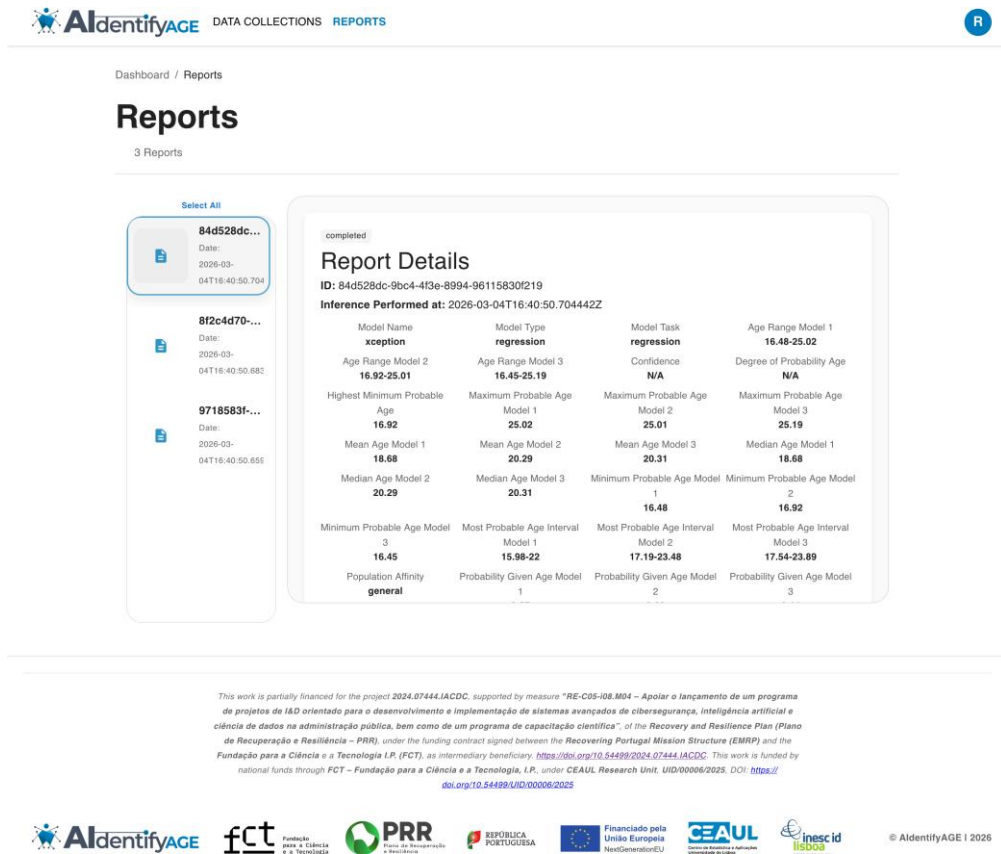


Figure 4.12: The Example Report Metrics

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Figure 4.13: The Example Report Heatmap

The final age assessment is determined by the user, as it is based on their own qualitative analysis.

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Chapter 5

Troubleshooting

If things aren't working as expected, check these common issues:

Warning

Never share your API keys or passwords with anyone, including your support team.

Page not loading: Try clearing your browser cache.

Login failed: Ensure your Caps Lock is off and try typing your password again.

Forgotten Password: Given this is a demonstrator in initial stages, no recover password mechanism is available.

Report not visible: If you have recently performed an inference run, the underlying models are somewhat heavy to run (especially in heavy load conditions). Wait a bit more time before attempting to read the resulting report.

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