

Updates

INDAF v2.0.3.0

This document outlines the main changes moving from version 1 to version 2.

Upon starting up INDAF, please check the bottom right corner of the Dashboard. This shows the version number. If that number starts with 1, please download and install INDAF version 2 from the Software Center.

1 Extended Dashboard functionality

- 1. Retake assessment:** This allows the user to wipe all student IDs and associated marks from an existing assessment but retain the assessment structure (number of questions and category allocation). This may be useful for SAP assessments or assessments in follow-on years which have the same structure as the existing assessment. Markers can then use this scaffold and only need to include new student IDs rather than setting up a whole new assessment.
- 2. Check Completeness:** This checks whether every student ID with associated marks has a complete set of marks and that generic feedback has been provided. This functionality is also accessible from the tab "Feedback reports" (button "Check completeness").
- 3. Double click functionality:** Double clicking opens assessments from Dashboard or Archive.
- 4. Additional export options:** Assessment data can be exported directly into a LUSI file. Statistics data can also be exported (in .csv format). Finally, INDAF files (ending in .indaf) can be exported and saved in a location of the user's choosing.
- 5. Additional import options:** Individual student feedback can be imported (the previous version supported the import of marks only). Mac users may hence mark an assessment using Excel and then import the Excel file into INDAF upon completion.
- 6. File Recovery:** Users can recover INDAF files, which are autosaved in 6-minute intervals over the last 2 hours.
- 7. File inclusion into Dashboard:** INDAF files (file extension: .indaf) can either be added to the Dashboard by clicking 'Add File to Dashboard'. Alternatively, once the computer associates INDAF files with the App, INDAF files can be included into the Dashboard by double clicking on them (to make the association, right-click on an .indaf file, select 'Open with', and select 'INDAF Windows' – this only has to be done once). Once the association is made, the thumbnail of the INDAF files shows the INDAF symbol, and INDAF files sent via e-mail attachments can be directly included from Outlook.

The screenshot shows the INDAF Dashboard interface. At the top, there are tabs for 'Dashboard' and 'Archive'. Below these are buttons for 'New Assessment', 'Recover Assessment' (annotated with a red 6), and 'Add File to Dashboard' (annotated with a red 7). A table of files is displayed, with the second row highlighted in red and annotated with a red 3. A right-click context menu is open over the table, with several options highlighted: 'Check Completeness' (red 2), 'Import from Spreadsheet' (red 5), 'Export' (red 4), 'Retake Assessment' (red 1), and 'Move to Recycle Bin' (red 1). At the bottom, there are sections for 'Recycle Bin' and 'Archive file'.

File Name	ID	Date/Time	Questions	Attempts	Score
22PSB614 - import (1).indaf	PSB614	25/10/2023 17:31:24	83	11	97 %
22PSB704 - complete.indaf	22PSB704	30/06/2023 09:46:42	314	6	99 %
22PSB707 Main exam.indaf	PSB707	16/06/2023 16:07:22	205	17	97 %
22PSB707 SAP.indaf	22PSB707 SAP	13/09/2023 11:34:38	4	22	100 %
22PSB713-EX1 - final.indaf	22PSB713-EX1	10/02/2023 09:13:00	395	18	100 %
22PSB713-EX1 - workshop.indaf	22PSB713-EX1	04/05/2023 17:08:19	395	18	100 %
22PSB713-EX2-final-testing.indaf	22PSB713-EX2	12/06/2023 14:39:38	392	17	99 %
22PSB713-workshop.indaf	22PSB713-workshop	07/07/2023 18:11:39	391	8	91 %

2 Marking Table

- Filter options:** The marking table can be filtered to display IDs with the following attributes:
 - n < Expected
Applies to assessments with optional questions – indicating not enough questions were defined as left out ('n') by the marker
 - n > Expected
Applies to assessments with optional questions – indicating too many questions were defined as left out ('n') by the marker
 - Marking Incomplete
 - Marking Complete
 - Unmarked
- Sorting:** Student IDs can be sorted within the Marking Table, either according to ID number, or if imported from Learn, according to the students' last names (to enable anonymous marking, these are not shown in INDAF, but are saved in the background).
- Direct access to Statistics:** This allows the user to easily check cohort, question and category statistics during marking.
- AI powered feedback generation:** Please see next page for details.
- Bulk Import:** Pre-defined feedback items can be included into INDAF in bulk. When marking, these can then be selected via the 'Re-use feedback' function (5.1, 5.2).

The screenshot shows the 'Marking Table' tab in the software. At the top, there are tabs for 'Setup', 'Category Allocation', 'Marking Table', and 'Feedback Report'. The 'Marking Table' tab is active. Below the tabs, there are buttons for 'Save', 'Save As', and '22PSB713-EX1'. There are also 'Back' and 'Next' buttons. The main area is titled 'Cohort View' and has a 'Student View' button. There are also buttons for 'Statistics' and 'AI Feedback'. A red box labeled '1' highlights the 'Filter' button. A red box labeled '2' highlights the 'Order: ↑ ID' dropdown menu. A red box labeled '3' highlights the 'Statistics' button. A red box labeled '4' highlights the 'AI Feedback' button. The table below shows columns for 'Whole assessment', 'Grade (%)', 'Q1', 'Q2', 'Q3', 'Q4', 'Q5', 'Q6', 'Q7', 'Q8', and 'Overall Feedback'. The table has several rows, including 'n < Expected', 'Preview Report', and 'Marking Incomplete'.

	Whole assessment	Grade (%)	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Overall Feedback
n < Expected	39	65	3	1	7	7	0	4	7	10	
Preview Report	30	50	n	n	5	5	1	10	6	3	
n < Expected	35	58	3	6	8	n	5	2	10	1	
Marking Incomplete	23	38	1	5	8	9					

The screenshot shows the 'Marking Table' tab in the software. At the top, there are tabs for 'Setup', 'Category Allocation', 'Marking Table', and 'Feedback Report'. The 'Marking Table' tab is active. Below the tabs, there are buttons for 'Save', 'Save As', and '22PSB713-EX1'. There are also 'Back' and 'Next' buttons. The main area is titled 'Cohort View' and has a 'Student View' button. There are also buttons for 'Statistics' and 'AI Feedback'. A red box labeled '5' highlights the 'Import' button. A red box labeled '5.1' highlights the 'Import' button in the 'Feedback' dropdown menu. A red box labeled '5.2' highlights the 'Re-use feedback' button in the 'Feedback' dropdown menu. The table below shows columns for 'Whole assessment', 'Grade (%)', 'Q1', 'Q2', 'Q3', 'Q4', 'Q5', 'Q6', 'Q7', 'Q8', and 'Overall Feedback'. The table has several rows, including 'Preview Report'.

	Whole assessment	Grade (%)	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Overall Feedback
Preview Report	39	49	3	1	7	7	0	4	7	10	

3 Feedback provision

1. **Extended formatting:** For all feedback, rather than only plain text, the following formatting can be applied.
 - Upper- and lower-script
 - Bold, italics, underline
 - Bullet points
2. **Cohort statistics:** Overall statistics and category statistics into the generic feedback can be directly added.
3. **Check Completeness:** This checks whether every student ID with associated marks has a complete set of marks and that generic feedback has been provided. This functionality is also accessible from the Dashboard.

The screenshot shows the 'Feedback Report' interface. At the top, there are navigation tabs: 'Setup', 'Category Allocation', 'Marking Table', and 'Feedback Report' (which is active). On the right, there are 'Back' and 'Next' buttons. The main area is divided into several sections:

- Report Title:** 'Physiology of Exercise and Training'.
- Area for development (less than):** '39.5'.
- Excellent (greater than):** '69.5'.
- Checkboxes:** 'Include Category Overview', 'Include Question Overview', and 'Include Individual Overall Feedback' are all checked.
- Folder to save Reports to:** 'C:\Users\psca\Desktop\feedback reports\PSB713'.
- Generic Feedback:** This section contains a toolbar with icons for italic (*I*), bold (**B**), underline (U), subscript (x_2), and superscript (x^2). A red box labeled '2' highlights this toolbar. Below the toolbar is a text area with placeholder text. A red box labeled '3' highlights the 'Include cohort statistics' checkbox.
- Buttons:** 'Preview Sample Report', 'Check Completeness' (highlighted with a red box and label '4'), and 'Create Learn Upload Zip'.
- ID Numbers:** A list of student IDs with checkboxes. The first five are checked. The last three are marked '(no data)'. A 'Create PDF Reports' button is at the bottom.

4 AI powered feedback generation (pilot project)

***This feature is currently piloted and not available to standard users.
A valid OpenAI API key must be provided in Settings.***

Upon completion of marking, individual qualitative feedback can be generated in bulk. The overall mark, category marks and user inputs define the prompt sent to OpenAI, which generates the feedback.

AI powered feedback generation takes time (~5-20 seconds per report), during which INDAF is unresponsive. However, INDAF can work in the background and users can use other applications during feedback generation.

1. **Temperature:** This adjusts the focus of the AI model. Values closer to Zero make the output more focused, values closer to One allow more creativity.
2. **Resources:** Users can define any further resources based on the categories defined for the assessment. This may be a specific Physiology textbook chapter for the first category in the example below.
3. **Free text:** Users can finetune the prompt. For example, users may indicate whether a given topic area is going to be followed up in a future module.
4. **Prompt:** This field is populated based on the above information. It is not directly editable.

The screenshot shows the 'AI-powered feedback generation' interface. At the top, there are 'Save' and 'Save As' buttons, the title 'AI-powered feedback generation', and a user identifier '22PSB713-EX1'. Below this is a summary bar showing 'Module Code: 22PSB713-EX1', 'Number of Students in Cohort: 369', and 'Fully Marked: 365'. A 'Continue Marking' button is on the left.

The main interface is divided into several sections:

- Feedback style:** Includes a dropdown for 'University lecturer', input fields for 'Feedback length' (100), 'Pass mark (%)' (40), 'Distinction mark (%)' (70), and 'Temperature' (0.5, highlighted with a red box and callout 1). A 'Restore Defaults' button is below.
- Category:** A list with 'Physiology', 'Anatomy', 'Exercise', and 'Training'.
- Resource:** A section with three empty input fields, highlighted with a red box and callout 2.
- Free text:** A large text area, highlighted with a red box and callout 3.
- Prompt:** A text area containing a generated prompt: 'In the words of a University Lecturer, create a 100 word report based on the student's results (rated out of 100%) to indicate strengths and weaknesses. Use 2nd person singular. Pass mark: 40%, Distinction mark: 70%.' This area is highlighted with a red box and callout 4. Below it is a 'Generate sample feedback' button and the text 'No sample feedback generated'.
- ID Numbers:** On the right, it shows 'Fully Marked: 365' and 'Selected: 358'. There are radio buttons for 'All IDs', 'IDs without associated feedback' (selected), and 'Custom'. A search bar is present. Below are checkboxes for IDs B111111, B111112, B111113, and B111115. At the bottom are buttons for 'Generate Individual Feedback' and 'Erase Existing Feedback'.