ePortfolios for lab testing



Analyzed **ePortfolios**











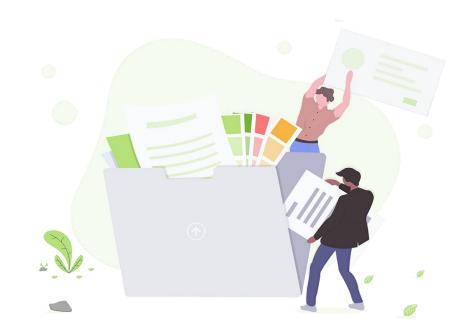






1. Focus

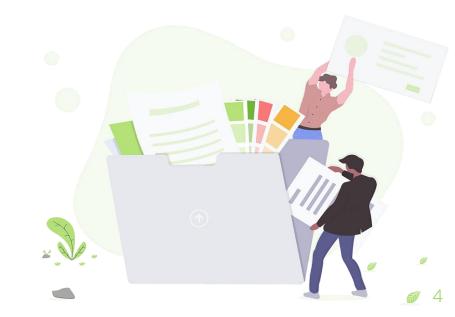
Of the ePortfolios



Focus

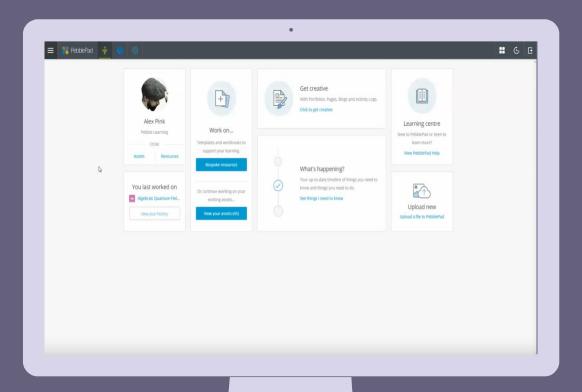


- Personal learning (Pebble+)
- Assessment (ATLAS)
- Personal mentoring (Flourish)



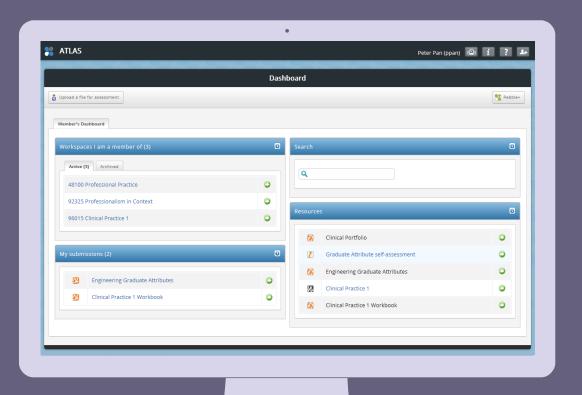
Pebble+

PebblePad



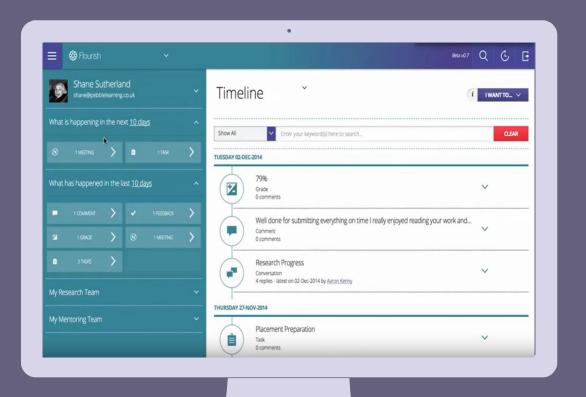
ATLAS

PebblePad



Flourish

PebblePad



Focus







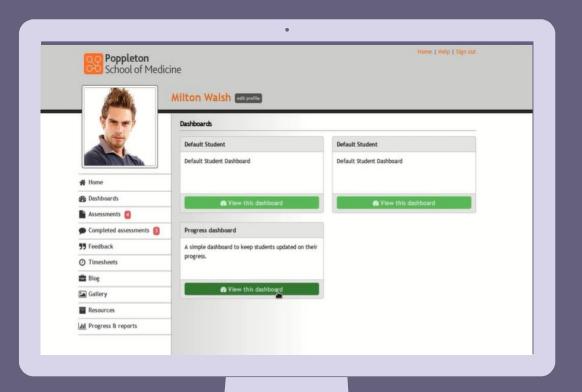


Digital reflection and feedback/assessment

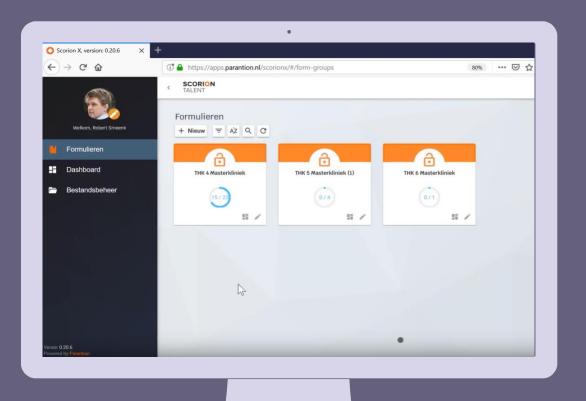




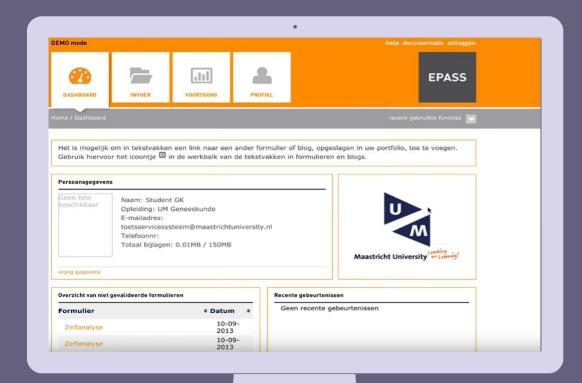
MyProgress



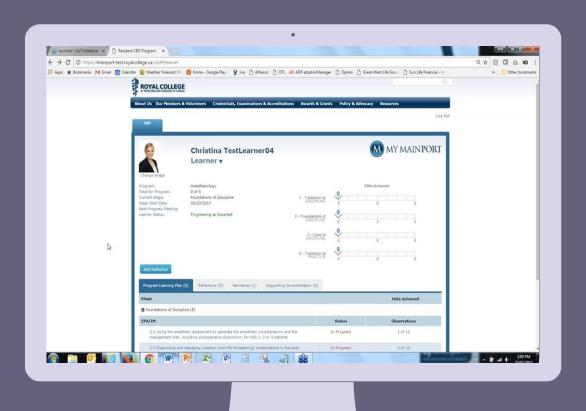
Scorion



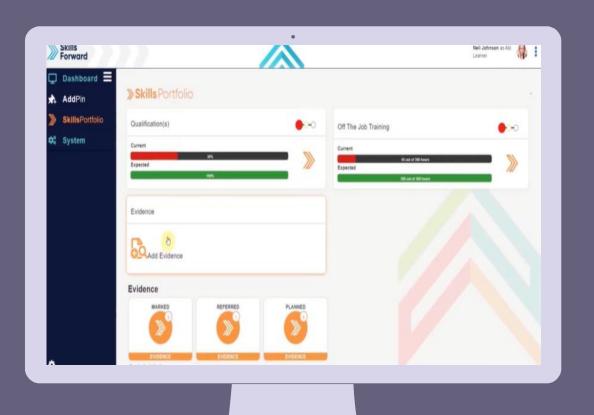
EPASS



Royal College



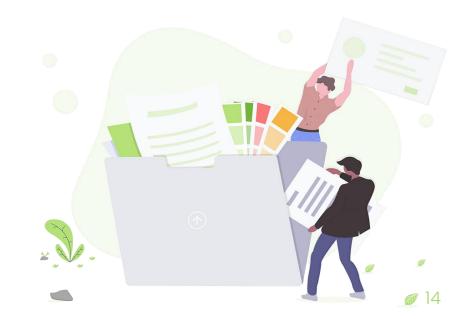
Skills Portfolio



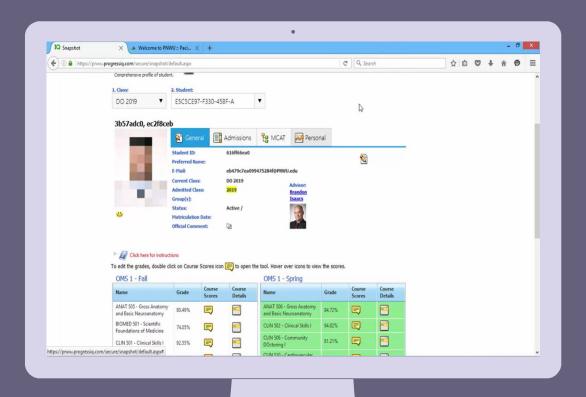
Focus



Data management



ProgressIQ



2. Facilitating communication

Between student, mentor and supervisor



Facilitating Communication



Student → mentor/supervisor

- Reflection forms
- Private messages
- Comments and highlights
- Workspace

Student → Student

Peer-review

Mentor/supervisor → Student

- Assessment forms
- Private messages
- Comments, highlights, feedback and approvals
- Workspace

Mentor ←→ Supervisor

- Private messages
- Flags
- Approvals

Forum in workspace

Private messages?

Facilitating Communication









Student → mentor/supervisor

Reflection forms

Mentor/supervisor → Student

 Feedback/assessment forms

Mentor ←→ Supervisor

 Feedback/assessment forms

Student → Student

Peer-assessment forms (except for Royal College)



Facilitating Communication

PROGRESS IQ

Student → faculty/advisor

- Secure messaging
- Notes

Faculty/advisor →
Student

- Secure messaging
- Notes

System → Student, faculty and advisor

Alerts

Faculty ←→ Advisor

- Secure messaging
- Notes

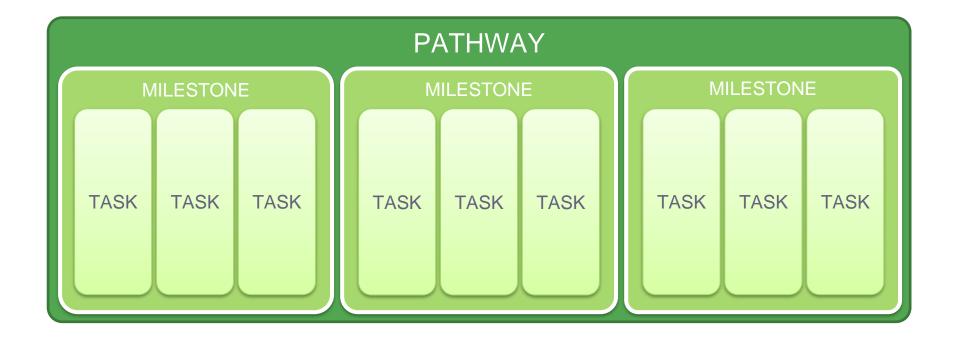


By student and/or supervisor

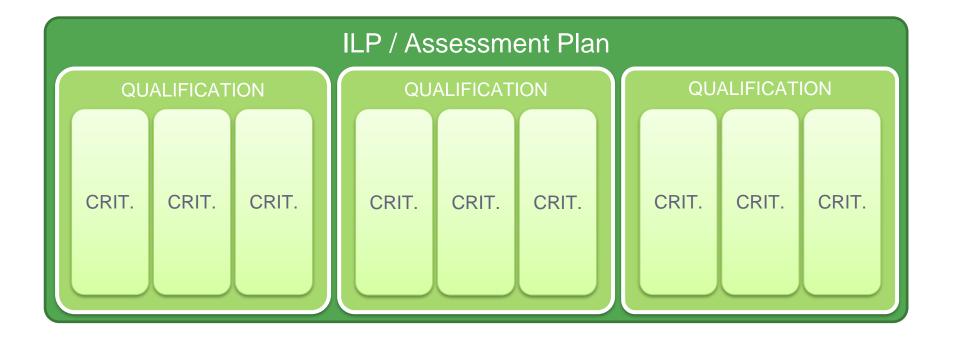


Planning learning 3 PebblePad











- Student can set goals in 'Professional behavior'
- EPA progress





PROGRESS IQ

ROYAL COLLEGE
OF PHYSICIANS AND SURGEONS OF CANADA
COLLÈGE ROYAL
DES MÉDECINS ET CHIRURGIENS DU CANADA

EPA progress





- EPA progress
- Targets can be set for the student
- Course templates



4. Input by student

Which content can students create in the portfolio?



Input by student



- Filling in reflection/self-assessment templates (+ highlights & comments)
- Creating portfolios, pages, logs, blogs and templates
- These can contain text, videos, hyperlinks and audio
- All saved in the 'asset store' → Pebble+

Input by student









- Filling in reflection/self-assessment templates
- Students can upload documents, photos, audio and video → evidence (EPASS: hyperlinks)



Input by student



Filling in reflection/self-assessment templates



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Which content can supervisors create in the portfolio?





- Comments, feedback, highlights, flags and grades
- Creating workbooks and templates
- Providing resources for students in workspaces









EPASS

- Creating templates for reflection and feedback/assessment
- Filling in feedback/assessment forms: narrative feedback + grades
- Create dashboards (MyProgress)





- Filling in feedback/assessment forms: narrative feedback + grades
- Adding evidence (any file) to an observation



PROGRESS IQ

- Filling in feedback/assessment forms: narrative feedback + grades
- File uploads for memos and important documents



5. Feedback

How is feedback given by assessors and provided for the student?



Feedback



- 360° feedback
- Comments (informal) and feedback (formal)
- Live feedback
- Three-level approvals
- Peer-review in workspaces
- Feedback statements that can be (re)used by multiple assessors





- 360° feedback
- JIT-feedback module that can code feedback as negative, neutral or positive
- Feedback in the Video Assessment Module



- 360° feedback
- Voice-to-text
- Audio feedback





- 360° feedback
- Voice-to-text
- Video and audio feedback
- Control over timing & visibility





- Feedback through observation forms
 - 'Form 1'
 - o 'Form 2'
 - Narrative form
 - Multi-source feedback form

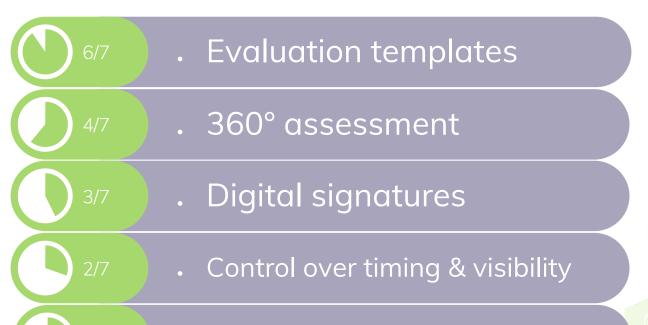


6. Assessment

How are students assessed?



Assessment



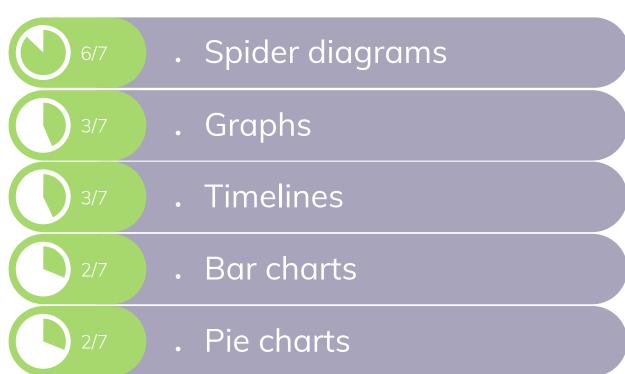
. Video assessment module

7. Visualization of progress

How is progress made visible in the ePortfolio?



Visualization of progress



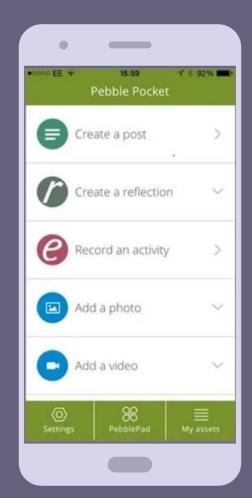
8. Mobile

How can users access the ePortfolio through their smartphone?



Pebble Pad

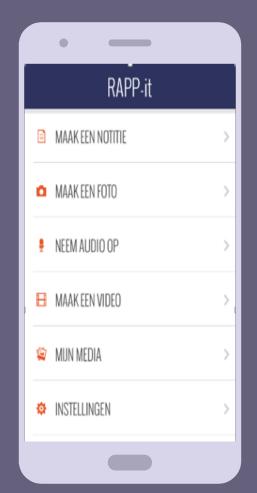
PebblePocket





EPASS

RAPP-IT

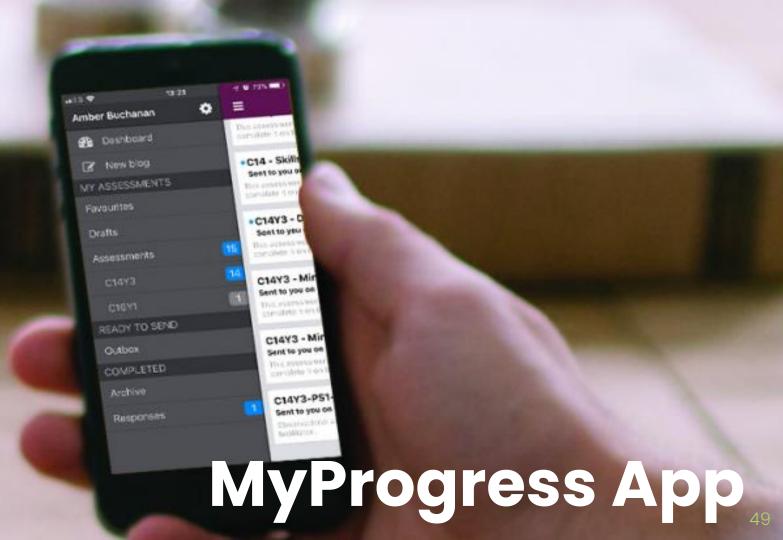




Scorion App







9. Smartness

Which smart features does the ePortfolio have?



Smartness

	?? PebblePad	Skills Portfolio	ROYAL COLLEGE OF PHYSICIANS AND SURGEONS OF CAMADA COLLEGE ROYAL DES MÉDECINS ÉT CHRURGIENS OU CAMADA	SCORION	8 myprogress	EPASS	PROGRESS IQ
Data manager + reports	X	X	X	Χ	X	Χ	X
Tags to group input	X	X	X				
Speech-to- text				X	X		
Estimation of EPA level (coding of narrative FB + grades)						X	
Detecting when student is failing							X

10. Lab testing in times of corona

Possible alternative research methodology



User journey survey

Goal: determine what users think of the solution they are currently using.

Steps:

- 1. Define **key points** in the user journey
- 2. Set up a **survey** in Qualtrics
- 3. Ask respondents to **rate how they feel** about each of the key points applicable to their portfolio
- 4. Visualize and analyze the user journeys



User journey survey

Pitfalls:

- Make sure the respondents have a common understanding of each key point
- Make sure the respondents have a common understanding of what each score means
- Stimulate respondents to give a qualitative explanation of their quantitative score

Conjoint analysis

Goal: determine what users think of ePortfolio functionalities that are currently on the market

Steps:

- 1. Make a list of **functionalities** (e.g. facilitating communication)
- Assign a set of **attributes** to each functionality (e.g. private messages)
- 3. Use conjoint analysis **software** (e.g. Sawtooth) to set up the study
- 4. Users choose between different **product offerings** with varying attributes
- 5. Analyze data to see which attributes are least/most valued

Conjoint analysis

Pitfalls:

 Respondents need to have a thorough understanding of what each functionality and attribute means.

Q-sorting

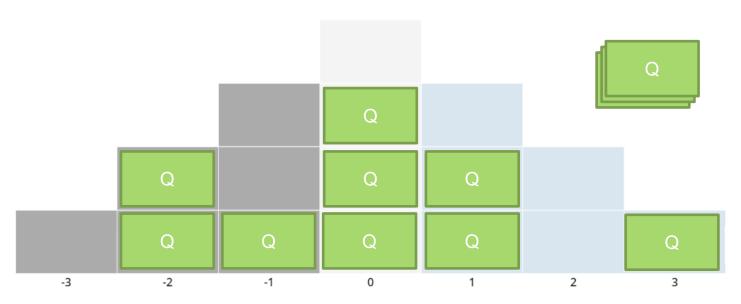
Goal: identify groups of users with a common view on what's good/bad about their/other ePortfolios

Steps:

- 1. Formulate Q-statements (e.g. It is important to me that an ePortfolio has a private messaging feature)
- 2. Set up a Q-sort structure in Q-sorting software
- 3. Ask respondents to sort the Q-statements in the structure
- Conduct factor analysis on the data to identify groups of respondents with a similar view.

Q-sorting

"Plaats alle statements in de vakjes naargelang de mate waarin je ermee akkoord gaat."



Minder mee akkoord Meer mee akkoord

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Q-sorting

Pitfalls:

- Q-statements need to be representative of a concourse
 - → Use of focus group data?
 - → Structured sampling approach
- Q-statements need to be provided for each independent user group
- Additional qualitative data can assist interpretation
 - → Zoom + share screen + think aloud protocol?

Online user testing

Goal: detect points of pain in ePortfolios that are currently on the market

Steps:

- 1. Find test logins
- 2. Set up user tasks (e.g. user 'x' has logged a performed action, give feedback to the user)
- 3. Call potential users through Zoom
- Give user task in the ePortfolio and follow through 'share screen' mode

Thanks!

Any questions?

