

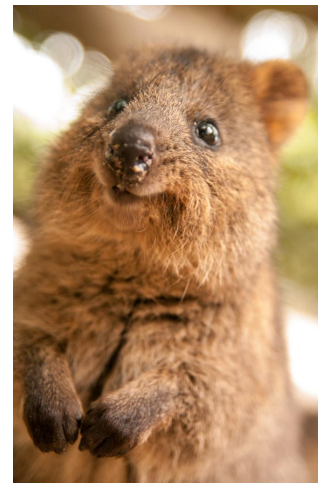
## Sprint Retrospective

Iteration 3

**Project** Stereotypes in CS  
**Group** 10D

Done	Partially done	Not done	Removed

User Story	ID	Status
As a researcher, I want to be able to send children responses before quiz finishes	1	
As a product owner, I want to download the data in EXCEL format	2	
As a product owner, I want the quiz to be full screen only	3	
As a parent, I want to have the option to provide the email to the consent	4	
As a owner, I want the application to be fault tolerant	5	
As a user, I want to be able to skip some parts of the quiz	6	



As a user, I want to provide my email after taking the IAT so that the results can be sent to me	7	
As the project owner, I want to be able to see intermediate results via a separate dashboard	8	
As the project owner, I want to be able to add/remove/edit questions by using a graphical interface	9	
As a user, I want the app to be fully responsive on mobile	10	
As a user, I want to see my test result at the end of each test	11	
As a product owner, I want the application to process data from user	12	
Tasks not necessarily written as a user story, but useful for the development (e.g. bug fixes for past features, small features requested on the spot, reports, etc.)	13	

User Story	Task	Assigned to	Estimated effort (hours per person)	Actual effort (hours per person)	Done	Notes
13	Make the same image not appear twice consecutively	Alex & Alin	2	2	Yes	As a feedback from the pilot, we realised that in some cases the same image would appear twice which would confuse kids since they weren't sure if they had made a mistake or not
13	Load a random scenario for quiz questions	Alex & Alin	0.5	0.5	Yes	Equivalent to the endpoint that requires a quiz version, but returns a random quiz version.
13	[BUG] Fix dashboard data	Ionut & Alex	2	2	Yes	Fix open question not displaying correctly and some minor bugs related to live statistics
13	Deploy applications to dev and production Heroku DYNOS	Alex	2	3	Yes	Before the pilot, our applications had to be deployed on a different server, to separate the database to hold the data gathered for the Pilot
13	Create scenario objects for the ones provided in the description provided by the client	Alex & Alin & Ionut	3	1.5	Yes	Create different static files for the different quiz versions and store them in an enum.

13	Update database schema with the latest requirements	Alin	2	2	Yes	We had to add things like an email to be associated with a participant and count the amount of times they press on a wrong answer.
13	Populate DB with the questions and images provided by the client	Alin	2	3	Yes	Once we had all the images we needed to add them to the databases and create that use them. Moreover, we had to change current things in the database because text should be in dutch
7	Add email to consent	Alex & Alin & Ionut	0.5	0.5	Yes	Email field was added in the database for the parents table.
13	Upload new images to cloudinary	Alex	1	1	Yes	Client provided new images for the IAT which needed to replace the old ones. They had to be uploaded to our CDN, Cloudinary.
8	Add endpoints for querying general information from the database (all participants, list of responses, etc)	Ionut	6	8	Yes	The client requested a simple dashboard where she can see live information about the number of participants, the distribution of ages, etc. In this endpoints we query the database and send the data to the client in order to be displayed.
13	Fix/test '/answers' endpoint	Alex & Alin	1	4	Yes	We added more tests for the answers endpoint to make sure everything will run smoothly.
13	Create QR code for the consent	Ionut	0.5	0.5	Yes	A QR code for the consent form was needed for the pilot so that it would be easier for parents to access it.
11,12	Calculate result at the end of a quiz	Alex & Alin	4	2	Partially	We had to document ourselves about how to process the user's answers. Following a discussion with our client we decided to do a t-test. We have to integrate this with the front end
7	Send emails with IAT results from server to participant	Alex & Alin & Ionut	2	2	Partially	We have a functional email sending service. We need to ask our client if she wants to send the emails from a specific domain.
	Add authentication and authorization for data dissemination application				No	No longer needed.
13	Draft Final Report	Everybody	6	15	Yes	We spent a considerable amount of time in writing the final report since it constitutes a fair percentage of our grade
5	Make application fault tolerant	Andrei & Dragos	4	4	Yes	The user is notified if, for any reason, the quiz data does not reach the server
2	Download EXCEL data	Dragos	2	2	Yes	Feature implemented; client requested not to continue development as she considers it redundant
13	Client's last minute features	Andrei & Dragos	4	9	Yes	All client's last minute features implemented for pilot
13	Style the application	Andrei & Dragos	4	8	Yes	Application styled accordingly

13	Send data to/from the server	Andrei & Dragos	2	2	Yes	Client-server communication implemented
11	Show results	Andrei & Dragos	5	10	Yes	Test, together with all components and screens are prerequisites for the result's screen. Feature implemented
1	Add researcher notes	Andrei & Dragos	4	5	Yes	Researchers can add notes after each participant has finished the test
13	Editing and uploading meeting notes	Ionut	3	3	Yes	

\*Technical writing assignments, meetings and other organizational tasks are not included in the retrospective

## Main Problems Encountered

### Problem 1 *During the pilot we couldn't connect to the database*

Description We couldn't connect to the database from the museum's wifi.

Reaction Until we found out that the problem was because of Heroku's trusted IP ranges for the database, we had to use a hotspot. We switched to a VPN later on to access it.

### Problem 2 *More time than expected spent on pilot*

Description We wanted the demo to run smoothly for the client since it was our best opportunity to get good feedback.

Reactions We had to spend more time on the data collection application to adapt to the latest changes in requirements. This in combination with the draft report deadline, made us postpone the finishing of the dissemination application to the last week.

### Problem 3 *Uncertainty in data dissemination's requirements*

Description Some aspects remain unclear regarding the data dissemination application (how exactly will it differ from the previous one, what are the extra features etc). These will be elucidated in the next week's meeting with the client.

Reactions We could not be guaranteed that what we are doing resembles the final product; we have created a general purpose quiz application, without any specific details.

## Adjustments for next Sprint Plan

1. Mainly focus on the data dissemination application
2. Communicate with client more efficiently
3. Adjust final report with Daphne's and Myrthe's feedback
4. Email TW teacher regarding any uncertainty about the final report
5. Increase testing coverage
6. Improve the README file
7. Refactor parts of the code