

Team 13 Bi-Weekly Report 5

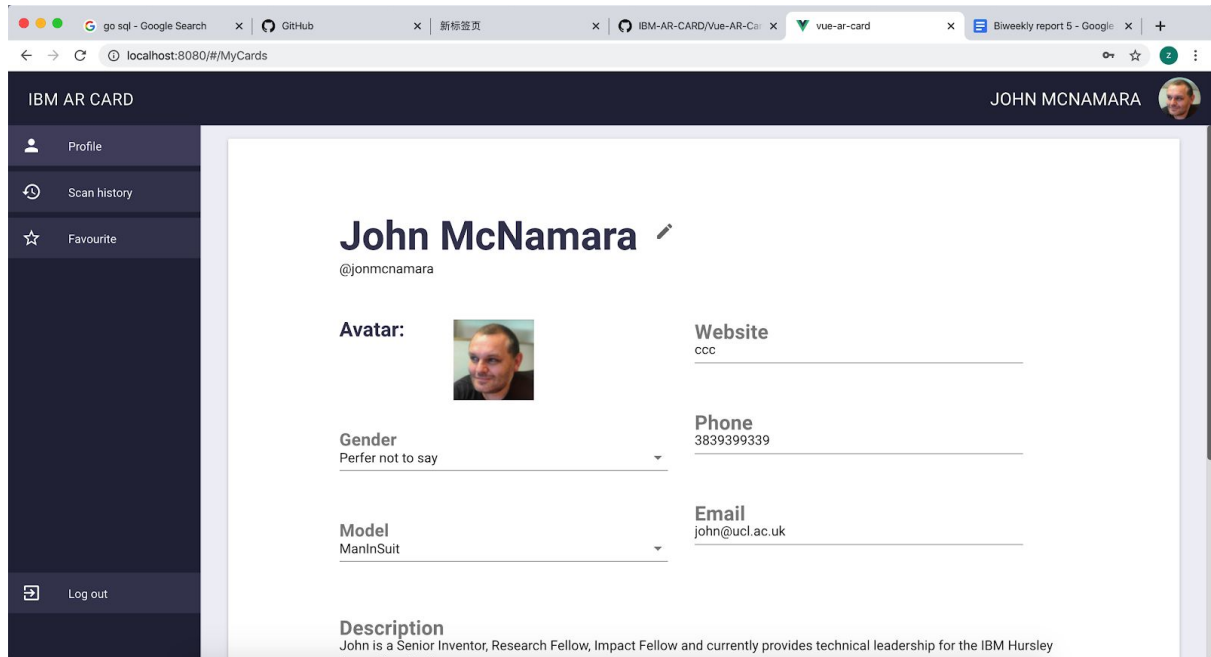
IBM AR Business Card

10 February 2020 - 28 February 2020

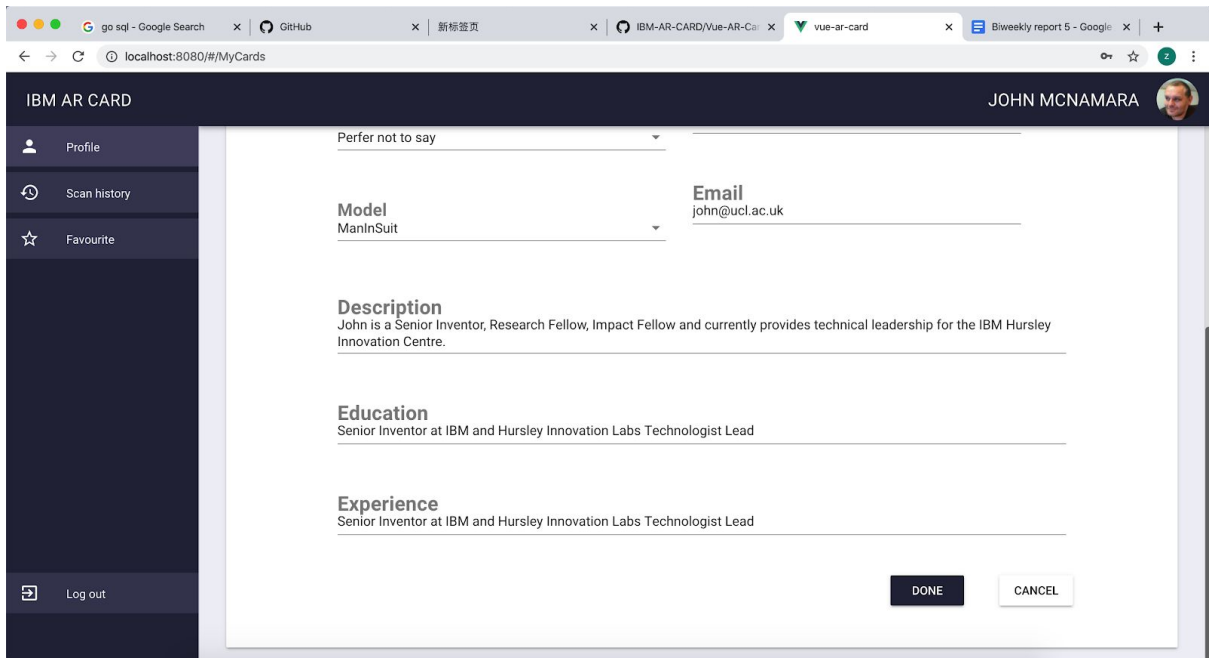
What we have done during the last two weeks

We have improved the UI design of the web dashboard by changing the design to material design, especially the user profile page. Additionally, we can now successfully update personal user profiles using the web dashboard.

Profile page



Save the detail to cloud



For flutter, we have refactored login page. The user now no longer require to login to use the main function such as AR and scan QR function, login is only required when user use favourite or history function. We also add a chat bubble which displays the user question and the answers for it. User is able to favourite their scan card now.



For backend, we have added chat function. This function handles the conversation and natural language processing from the front-end app. Watson's Assistant is used here to understand and classify the question the user ask by voice. Through processing in the backend, the backend will return the response to the front-end. Then the user can hear the answer to the question after using Watson's text to speech. All the solutions to the specific questions are stored in the cloud.

Relative to update about the backend. We can chat with our AR avatar successfully using the front-end app. We can handle user-profiles in chat. For the AR aspect, we add the gesture detector for switching scene and add more models for the AR avatars. Users can change the avatars they want directly using the mobile app.

Estimation of whether the project is running on time

Every week we update the weekly plan about things we should do in the following weeks.in the group chat and Trello boards. There are one month before the deadline of the project, most of the work in the development stage of our project is almost done. However, there still are several minor changes and small bugs we need to do and fix before coming into the test stage. We are trying our best to submit a perfect project on time

Problems that need to be resolved before the next report

The login page may perform different layout on different size of mobile.
When filling the login or register textfield keyboard may overlap the text field.
The web application may run into a strange state when user click button multiple times.

Plans for the next two weeks

There is only one month left, the development stage should be finished in the next two weeks, especially the development of the web dashboard.
We will improve the UX design of the mobile app and make minor change for the UI design due to the user experience.
Add image upload function to web application, so the user can change their avatar.
Add delete function and favourite function on my cards list, user can operate the action by long-press the list item.
Provide a search function on the favourite list or history list.

Report Summary

What we have done during the two weeks

- improved the UI design of the web dashboard
- Finish profile update page
- Change login logic
- Display the content when using the chat function

Problems that need to be resolved before the next report

- Fix login page layout
- Fix keyboard overlap the content
- Fix the state management of web application

Plans for the next two weeks

- Improve ui design for mobile application
- Allow user to change their avatar in web application
- Allow user to operate the list by long press the item
- add search function to mycards list on mobile application