Retrospective 2 & Sprint Plan 3

CS2001 - Group 50

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Sprint 2 Retrospective

Our plan in the sprint was to make initial progress in the back end and carry on / finish any remaining work which was yet to be completed in the previous sprint. As a team we allocated tasks and discussed which ones were the most imported to least and distributed tasks accordingly. We found that it was time to make steady improvements on our front end so both teams can start to integrate web pages together to allow us to finish the project in time.

<u>The Positives</u>

These are the aspects of our collaborations which we deemed to be highly successful:

1. The team worked together to distribute tasks even throughout the break and kept communication alive to allow regular updates as well as progress reports. This was very important and a key reason we made progress through the winter holiday break.
2. In the second sprint we clearly identified separate task domains, with individual developers primarily being responsible for a single task. This allowed the team to focus on tasks they were comfortable with, this gave confidence in the task being given to the individual as well as reassurance to the team.
3. The team worked together to help each on where an individual found difficult, this was very productive for the team as those who finished there tasks / or ahead of expected completion time helped others who may have fallen behind.
4. The team carried on doing meetings but not as often due to the Christmas break week during the sprint, in which general progress and difficulties were discussed. These meetings were frequent enough for everyone to have an understanding about the state and the progress of the sprint, while not being so frequent as to have nothing to discuss.

<u>The Problems</u>

These are the problems we identified as the main hurdles in our first sprint:

1. A large portion of the sprint was done in the Christmas Holidays , therefore many of the team members were flying back home as well as to their families , this affected communication as many of the students time zones' differed and meetings were hard to schedule.
2. Many of the team has little experience in front end development so the learning aspect to integrating took a little longer than expected.

3. Due to the holidays the team was not able to fulfil the tasks initially set therefore setting back a few of the task completion date.

Recommendations for Future Sprints

1. Learn from past mistakes - For the next sprint planning, it is important to take into consideration the successful and well, not so successful, practises in past sprints so we don't make the same mistakes. In future retrospective meeting we will provide an outlook on the entire sprint experience, what was good and what can be improved. This will help us better identify windows of improvement and discover better strategies for a more successful output in the future. The Team should also discuss the source of issues and work together to modify strategies for more efficient results. Especially problems in meeting deadlines which can be improved by considering time management.
2. Leave some additional time - It will be very useful in our future sprints to allocate a little extra time in a sprint for unprecedented situations. These situations can be anything and anytime so it would be very beneficial to keep some time at hand for any sort of delay or emergency.
3. Not to rush the sprint planning or delay it – In the future we should really spend more time on sprint planning to consider all possible outcomes and have a strategic back up plan for the sprint plan . This will help organisation , confidence and a response to any issues

Sprint plan 3

Product Backlog

An initial product backlog was drafted that greatly exceeds the level of functionality that can be implemented for the minimum viable product (MVP). Yet, the backlog is not complete and will continue to adapt during the subsequent sprints, as requirements and scope become more clear.

1. As a user, I need to be able to access the website, to interact with it. (Functional)

2. As a user, I have to create an account with TechDon, so I can access the platform's functionality. (Functional)

3. As a donor, I need to be able to list devices for donation, so students in need can receive them. (Functional)

4. As a student, I need to be able to select which devices I need, so I can be informed once any are available. (Functional)

5. As a student, I need to be informed when a device is available, so I can claim it. (Functional)

6. As a donor, I need to be able to communicate with students who receive my device, so we can coordinate the delivery or collection. (Functional)

7. As a user I need to be able to access all required functionality from the website, to be able to complete the tasks efficiently. (UI / Functional)

8. As a user, I need my personal information to be secure, so I can entrust it to the website. (Non-functional, security)

9. As a user, I need the website to be fast and have maximal uptime, to be able to access it whenever I want. (Non-functional, reliability)

10. As a user, the website needs to have a logically organized interface, so using it is not a hassle. (UI)

11. As a user, I need the website to be responsive and accessible from mobile devices, so I can access it whenever I want. (UI)

12. As an admin, there needs to be an admin panel, so website management and analytics tasks can be performed easily. (Functional)

13. As a donor, I want recipients to have their identity and eligibility verified, to assure the right people are receiving the donation. (Functional)

14. As a student, I need to be able to see an estimate of how long it will take for me to get a device, to have an understanding of the progress. (Functional)

15. As a donor, I want students to be able to only receive one device, to make sure my devices go to people who actually need them. (Functional)

Sprint Goal & Distribution

The goal of the third sprint is to complete the tasks that were not finished in the previous two sprints and focus on the tasks with the highest priority. We want to have a MVP at the end of the sprint. This is the motivation behind choosing the user stories that we chose, and setting the acceptance criteria the way we set it. The acceptance criteria for this sprint should be understood as that for the MVP and not as the acceptance criteria for our platform as a whole. The tasks of the sprint 3 will be updated as the group progresses with the tasks.

This sprint the responsibilities of Scrum Master and Product Owner have been given to Alek and Nawal respectively.

The backlog items to be completed during the third sprint are as follows:

#	*User Story*	Priority	Points
1	***As a user, I need to be able to access the website, to interact with it***	Very High	20
Acceptance criteria : ● The basic website needs to load and present the user with rudimentary information ● Provide forms that hook into the endpoints of the back end			
Tasks		Responsible	Points
Set up React		Thoy	2
Create and see which web pages need to be added using react		Thoy/ahmed	2
Add a webpage on which users can see the device and claim it		Ahmed	2
Integrate front and back end		Thoy	2
Navigation bar which reaches all web pages		Thoy	2

Create Home and About Us pages	Nawal	3
Create Login, Registration, Account pages and a Verify Email page	Thoy	3
Create a Verify Email form and sent out contact information once the device has been donated	Ahmed	2

#	User Story	Priority	Points
2	**As a user, I have to create an account with TechDon, so I can access the platform's functionality**	Very High	23
Acceptance criteria : ● Have an account system that support registration, login, and persistent storage of user-related information ● Let the account functionality be externally accessible via an API endpoint			
Tasks		Responsible	Points
Create internal capabilities that allow accounts to be created, logged into, and modified		Alek	12
Implement the API Endpoint that allows external interaction with the login system		Alek	4

#	User Story	Priority	Points
3	**As a donor, I need to be able to list devices for donation, so students in need can receive them**	Very High	6
Acceptance criteria : ● Have a website that allows donors to fill out information about their devices that add them to the user's persistent data			
Tasks		Responsible	Points
Implement the endpoints that allow devices to be added, updated and loaded		Philipp	3

Integrate the data into the DB via the interface	Philipp	3
Create List New Device page	Nusrat	1
Create a View Listed Devices page	Nusrat	1
Update device feature	Nusrat	1

#	*User Story*	Priority	Points
4	**As a student, I need to be able to select which devices I need, so I can be informed once any are available**	Very High	10
Acceptance criteria : ● Have a website form that permits selection of device categories listed in our system and adds selected devices to the user's persistent memory			
Tasks		Responsible	Points
Implement endpoints that allow the devices to be selected, to set preferences, load preferences, display offered devices		Philipp	6
Integrate the data into the user's persistent memory		Philipp	2
Set Donation Preferences page		Ahmed	1
View offered devices with an Accept/Decline button		Ahmed	1

#	*User Story*	Priority	Points
5	**As a student, I need to be informed when a device is available, so I can claim it**	High	18
Acceptance criteria : ● Have a working system that decides the recipients of the devices ● Inform recipients upon selection by Email			
Tasks		Responsible	Points
Create a rudimentary queue system that allots devices to users in the order they queued up for them		Philipp	3

Create an internal endpoint for email capabilities and integrate it with an SMTP server	Nawal	6
Send an email to users upon being selected	Nawal	1

#	User Story	Priority	Points
6	**As a donor, I need to be able to communicate with students who receive my device, so we can coordinate the delivery or collection**	Medium	2
Preliminary Acceptance criteria : ● Send both the donor and the recipient the contact details of the other party, so they can get in touch (*will be expanded in later sprints*)			
Tasks		Responsible	Points
Send emails containing contact email addresses and phone numbers of the donor and recipient to each other		Nawal	2

#	User Story	Priority	Points
7	**As a user, I need my personal information to be secure, so I can entrust it to the website**	High	3
Acceptance criteria : ● Have a storage interface that enables all required information to be stored ● (Future Sprints) Pentest the system and unittest the database interactions to assure maximum security			
Tasks		Responsible	Points
Continue expanding and maintaining the database interface to fit expanding project needs		Philipp	3

#	User Story	Priority	Points

11	As a donor, I want recipients to have their identity and eligibility verified, to assure the right people are receiving the donation.	Medium	11

Acceptance criteria :
- have email receipts sent to user after receiving the item

Tasks	Responsible	Points
Let user upload supporting documentation for student status	Alek	2
Implement an endpoint for user ID verification	Alek	2
Admin endpoint to have a queue of student verification	Alek	4
Preliminary admin page	Alek	1
End point to verify student status	Alek	2