TEAM DIARY

FIRST SPRINT (15/10/2020 - 31/10/2020)

How we have handled the Scrum rituals

- **Sprint planning (18/10/2020):** it took place about a week after the actual start of the first sprint because we have to learn how Scrum really works, so that so we could get off to a good start
  Notice
  We were unable to write the DoD (definition of done) because we have had some difficulties with it. During the class meeting on 29/10/2020 with the professor, we understood the DoD better but we haven't got enough time to write it for the first sprint. So, we have decided to write the DoD during the sprint planning of the second sprint.
- **Daily scrum:** there hasn't been an effective daily scrum because we haven't needed it since we always spoke on messaging chat where we have created a group with all five members.
- **Sprint Review (01/11/2020):** See "First Sprint Docs"
- **Backlog grooming (?)**: -> Postponed to Sprint Planning
- **Sprint Retrospective (01/11/2020):** See "First Sprint Docs"

12/10/2020
- Team forming with Trello
- Pause of about 4/5 days to complete our project to start the project "Twitter tracker"

17/10/2020
- Training of Scrum with the Scrumble game: simulated a real situation of team work in an agile process
- Learned the various Scrum roles and how to behave with them

18/10/2020
- Set CAS environment
- Server setup: gitlab, mattermost installed with aws script for cas, taiga manually installed
- Create accounts in Mattermost, Gitlab and Taiga and for each of them we set up the work group
- We couldn't create the accounts for Sonarqube and Bugzilla because we couldn't run the Docker image yet

Sprint planning
- Meeting with all team's members to create the first stories (most likely they will be update during the sprints). For each of them we have:
  - set the content of the story
  - set dependencies of the story
  - set the points of the story (UX, design, frontend, backend)
  - set tags (on Taiga)
  - Made some experience with taiga

- We were unable to write the DoD for the first sprint because we need more experience about it, so we will write it during the second Sprint planning
- Set the Taiga environment, added the stories and customized it setting some details like new tags or new user story status
- On product backlog, select the sprint goal
- On sprint goal, the Scrum master has select the stories to put in the first sprint and after that we discussed it together
- Before dividing the user stories into tasks and estimating them, we decide to wait for the PO to accept them and also to play a Scrumble game with them (because is our first experience with Scrum and we wanted to do more practice)
- Organized a meeting with PO (professor)
- Some members have studied the twitter API to gain experience
- Goals: we are ready to submit our stories to Prof. Ciancarini for his approval. We have laid a solid foundation for the project and we are ready to start coding it

19/10/2020 - 20/10/2020
- Waiting for meeting with PO
- Study Scrum and Twitter API

21/10/2020
- We finally managed to install both sonarqube and logger's backend (but we still lack the frontend because we have to wait for Prof. Ciancarini) on our server (thanks sonarqube docs and stackoverflow).
- First meeting with the product owner (Prof. Ciancarini) to show him our first user stories and check if they are accepted
- After the first meeting it emerged that the user stories weren't correct because **we weren't focusing on geolocalization**

22/10/2020
- Following the meeting with the product owner, we have updated the backlog: we have deleted some user stories, and added or updated other
- Updated the first sprint backlog
- Created story tasks for the user stories in the sprint backlog
- Story tasks are assigned to the various members

23/10/2020
- Play a Scrumble with our user stories
- Collection of Scrumble's data
- Based on Scrumble's data, we have reflected on the estimation time of each task
- Set the estimation time of each task

24/10/2020 - 26/10/2020
- Dev team members studied to reduce technical gaps between them and other have started coding

27/10/2020
- Coding
- Important team reunion, where the points considered were:
    - update estimation time of sprint tasks
    - decide what production data to collect and how (beyond this diary)

- talks about essence cards and how to use it (at the end the SM has taken the task to study them)
- talks about the code written
- talks about what is missing for the end of the sprint
- Problem emerged
  - Understand how to handle the twitter API authentication without having to authenticate each time

28/10/2020
- Coding
- Study and discussion related to managing multiple streams and user-based authentication instead of app

29/10/2020
- Global meeting in class with all students and both prof Ciancarini and Missiroli
- After this meeting, maybe we have misinterpreted the concept of epic stories. As we probably misused them and currently do not have enough time to fix them before the end of the first sprint, we have decided to take a closer look during the second sprint.
- Client and server now communicate correctly, found graphic bug see gitlab issues board. We still need to implement a validity check on the coordinates to be sure that the user submit only valid coordinates
- Coding

30/10/2020
- Coding and study
- Started collection of tweet located in italy on personal (Liso) raspberrypi

31/10/2020
- Tests
- Coding

01/11/2020
- Sprint review
- Sprint retrospective
- (Grooming backlog postponed to next Planning)

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SECOND SPRINT (03/11/2020 - 24/11/2020)
- How we have handled the Scrum rituals
  - **(Grooming backlog first sprint - 05/11/2020)**
  - **Sprint planning** (06/11/2020)
  - **Daily scrum:** there hasn't been an effective daily scrum because we haven't needed it since we always spoke on messaging chat where we have created a group with all five members.
  - **Sprint Review** (22/11/2020): See "Second Sprint Docs"
  - **Backlog grooming** (22/11/2020)
  - **Sprint Retrospective** (22/11/2020): See "Second Sprint Docs"
  - *Notice*
    We have recovered the elements we had left behind in the first sprint (for lack of

knowledge in Scrum): we have defined the definition of done of the user stories already present in the backlog and we have carried out the backlog grooming

05/11/2020
Grooming backlog
Since we couldn't do it at the end of the first sprint, we did it as the first thing of the second sprint, before the sprint planning.
- we have analyzed the new requirements given by the product owner and based on them we need to write new stories (which we will write in sprint planning)
- we have analyzed the user stories already present in the backlog and we decided to delete some because not required and to modify others

06/11/2020
Sprint planning
- we estimated the time of the stories already present in the backlog as we could not do it in the first sprint because we did not know how to do
- based on the results of the grooming backlog, we have written new stories
- we estimated the time of new stories
- we have set the definition of done of the new stories
- we decided the sprint goal
- we decided how to achieve this second sprint goal
- based on the second sprint goal and how we want to achieve it,, we decided which user stories to insert into the second sprint
- we have divided the user stories into various tasks (user stories present in the second sprint backlog)
- we have assigned the various tasks to the development team we have set all the same logger (wakatime in vscode)

07/11/2020
- Coding
- Changed how stream are handled backside
- Started working on hashtag filter, but found out that filters on stream are ORed together

08/11/2020 - 14/11/2020
- Coding
- Study of twitter API
- Communication between members of the development team to organize and for help/advice with each other

15/11/2020
- Mid-sprint meeting to see the progress of the project
- Update of user stories estimates

16/11/2020
- After the meeting the day before, we decided to make an important change: at the beginning of the project we decided to structure it with the use of "Next.js" (React framework) to manage a certain way the server part. Following several problems and limitations we encountered with its use, we decided to abandon this framework and switch to the more traditional use of "Node,js" and "express.js"
- Creation of a new boilerplate without the use of "Next.js" and transport of the already existing code within this new boilerplate

17/11/2020
- Short meeting after the request of the product owner to realize the UML diagram about the use cases e class diagram
- Decided how to proceed and to whom to assign the task

19/11/2020 - 21/11/2020
- Coding
- Started to use and become familiar with Sonarqube

19/11/2020 - 20/11/2020
- Coding
- Study of twitter API
- Communication between members of the development team to organize and for help/advice with each other

21/11/2020
- Tests
- Coding

22/11/2020
- Grooming backlog: there were few changers, the backlog remained the same at 90%
- Sprint review (made relation and posted on wiki taiga "Second Sprint Docs")
- Sprint retrospective (made relation and posted on wiki taiga "Second Sprint Docs")

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THIRD SPRINT (24/11/2020 - 15/12/2020)
- How we have handled the Scrum rituals
    - **Sprint planning** (24/11/2020)
    - **Daily scrum:** there hasn't been an effective daily scrum because we haven't needed it since we always spoke on messaging chat where we have created a group with all five members.
    - **Sprint Review** (14/12/2020): See "Third Sprint Docs"
    - **Backlog grooming** (14/12/2020)
    - **Sprint Retrospective** (14/12/2020): See "Third Sprint Docs"

24/11/2020 - 25/11/2020
- Two short meetings to discuss how to approach the new PO requests (periodic tweet)

26/11/2020
- Create new branches so that everyone can work on their own branch and manage their work at their best

27/11/2020
- New branch for handling the stream, wait approval

28/11/2020 - 05/12/2020
- Coding

03/12/2020
- Short evening meeting

06/12/2020
- Mid-sprint meeting to see the progress of the project
- Update of user stories estimates

06/12/2020 - 10/12/2020
- Coding

11/12/2020
- Meeting to see what is the progress of the project and understand what to do
- There are not many things to do, but it was decided to move with an extra sprint so as to complete everything at its best and without making the races

13/12/2020 - 14/12/2020
- Coding
- Make the first important tests on the final application

15/12/2020
- Grooming backlog: there little change changers
- Sprint review (made relation and posted on wiki taiga "Third Sprint Docs")
- Sprint retrospective (made relation and posted on wiki taiga "Third Sprint Docs")

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FOURTH SPRINT (15/12/2020 - 05/01/2021)
- How we have handled the Scrum rituals
    - **Sprint planning** (15/12/2020)
    - **Daily scrum:** there hasn't been an effective daily scrum because we haven't needed it since we always spoke on messaging chat where we have created a group with all five members.
    - **Sprint Review** (05/01/2021): See "Fourth Sprint Docs"
    - **Sprint Retrospective** (05/01/2021): See "Fourth Sprint Docs"

15/12/2020
- A new features (filters) has been added
- Decided which user stories to insert in the fourth and final sprint
- Four user stories included in the first sprint were not included in this sprint as they were deemed superfluous, so they were rejected

16/12/2020
- Create new branches so that everyone can work on their own branch and manage their work at their best

17/12/2020 - 22/12/2020
- Coding

23/12/2020
- Meeting to talk about the work needed for the project in addition to the code (eg reports): what is needed, who should deal with it
- Coding

24/12/2020 - 26/12/2020
- Holiday break for Christmas
- Light/soft coding during the holidays

27/12/2020 - 28/12/2020
- Mid-sprint meeting to see the progress of the project
- Update of user stories estimates
- Coding

29/12/2020 - 30/12/2020
- All the branches are finished, it's time to merge
- Merge
- Fix some bugs born after the merge

31/12/2020
- Important meeting to talk about the final interface
- Each team member made his own proposal for the interface, eventually he opted for a mix between a couple of choices
- Started implementing interface code based on meeting result

01/01/2021
- Coding

02/01/2021
- Coding
- Practically finished the interface and with it the project (meaning the code)
- Some bugs may appear in the future days, in the case of obviously we will fix them

03/01/2021 - 04/01/2021
- Final tests
- Everything seems to work properly

05/01/2021
- Sprint review (made relation and posted on wiki taiga "Fourth Sprint Docs")
- Sprint retrospective (made relation and posted on wiki taiga "Fourth Sprint Docs")

06/01/2021 - ../../....
- From today will be made all the reports and diagrams necessary to complete the project still to be done