Sprint 3 - Retrospective

List of issues

Closed issues:

⊘ Check that documentation and code style is consistent and correct `documentation` #54 by z-rayc was closed 39 minutes ago		
⊘ Record VO for "potential improvements and future work" for video `documentation` #66 by Kim3n was closed 2 hours ago		
⊘ Write about database and SQL for project report `documentation` #65 by Kim3n was closed 2 hours ago		
⊘ Create support for multiple sensor nodes `enhancement` #40 by z-rayc was closed 2 hours ago		💬 1
⊘ Write about Security used, MQTT protocol and ARP if used `documentation` #62 by Oransj was closed 2 hours ago		
⊘ Record security and raspberry pi `documentation` #60 by Oransj was closed 2 hours ago		
⊘ Record in MQTT protocol voice over `documentation` #59 by Oransj was closed 2 hours ago		
⊘ Record material and research voice over `documentation` #57 by Oransj was closed 2 hours ago		
⊘ Add support for cryptographic communication. `enhancement` #38 by Oransj was closed 2 hours ago		💬 1
⊘ Write about result in the rapport #68 by markou00 was closed 2 hours ago		

⊘ Write about architecture of the application #67 by markou00 was closed 2 hours ago	
⊘ upload voice to google doc #56 by markou00 was closed 2 hours ago	
⊘ Create predictNextDay(JSONObject):void method #49 by markou00 was closed 2 hours ago	
⊘ Modify saveData method to check the existance of an object in DB before saving #50 by markou00 was closed 2 hours ago	
⊘ create predict method #43 by markou00 was closed 2 hours ago	
⊘ Create predictNextHour(JSONObject):void method #48 by markou00 was closed 2 hours ago	
⊘ Translate project report into README.md file `documentation` `help wanted` #58 by z-rayc was closed 8 days ago	
⊘ Write about IPv4 and IPv6 protocols for project report `documentation` #61 by z-rayc was closed 8 days ago	
⊘ Write script and record introduction, describe process and describe website `documentation` #55 by z-rayc was closed 8 days ago	
⊘ Set up express app in frontend #17 by markou00 was closed 8 days ago	

⊘ Fix bug that light is too intense `bug` #47 by Oransj was closed 16 days ago		💬 1
⊘ Fix decimal number view and check correct wind angle on Forecast table `bug` #46 by z-rayc was closed 17 days ago		

Unfinished issues:

Distribution of issues

Above you can see what issues were made, which ones were finished in time for the sprint deadline, and who completed/worked on the issues. We also finished the open issues from sprint 2, and we finished all remaining issues after sprint 3 was finished.

We started the sprint by looking at what would be needed in the presentation and report. We saw that there was some overlap between them, and then distributed the parts based on what people did during sprint 1 and 2. Some group members also had to finish their parts that they didn't finish in sprint 2.

Retrospective

The third sprint lasted between November 14th and 27th. Our goals for the sprint were:
- Finishing all reports
- Recording and editing the presentation
- Hosting and running the application

We used the first week to plan and record the presentation, then one group member edited the video. At the end of the first week we sat down together to write the report.

We had some problems with cryptography, predictions generating wrong data, and the Raspberry Pi needing NTNU's VPN since we're hosting the website with NTNU. However, we successfully hosted the website, and it's working now without using VPN. The problem with prediction is that we are using the ARIMA model to predict the future weather and in the beginning it predicts realistic values, but after a while it starts to predict extremely large/low values. With our cryptography, we have a problem that some of our messages are too big for the RSA keys we are using and generating much bigger than 4096-bit keys takes a while to do, so we dont believe that is feasible.