Table of Contents

[Project Wether App 2](#_Toc99813285)

[Testing Plan 2](#_Toc99813286)

[Project Background 2](#_Toc99813287)

[Project Illustration 2](#_Toc99813288)

[The main diagram types in UML 3](#_Toc99813289)

[What about the foollowings would we need? 3](#_Toc99813290)

[UML-design (use case diagram) 3](#_Toc99813291)

[Nithya´s notes 5](#_Toc99813292)

[Brainstormin 2 7](#_Toc99813293)

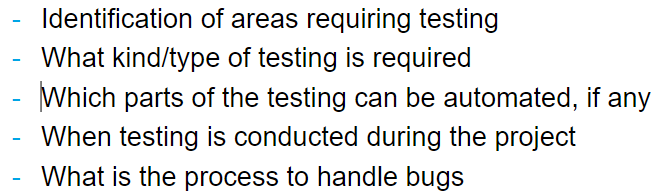
[What kind of document selection we have time to produce 8](#_Toc99813294)

[AccuWeather user Azure plus other MS services 8](#_Toc99813295)

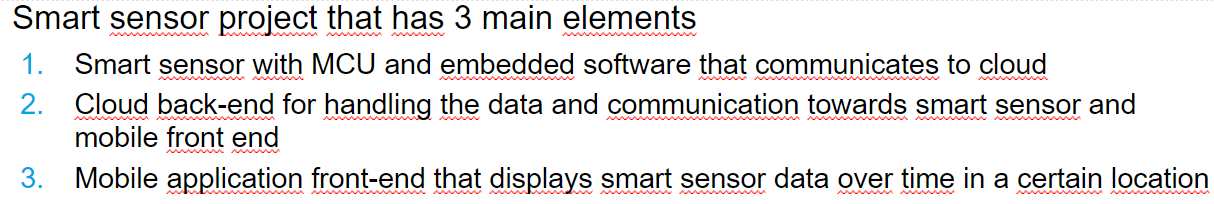
[About the links 9](#_Toc99813296)

# Project Wether App

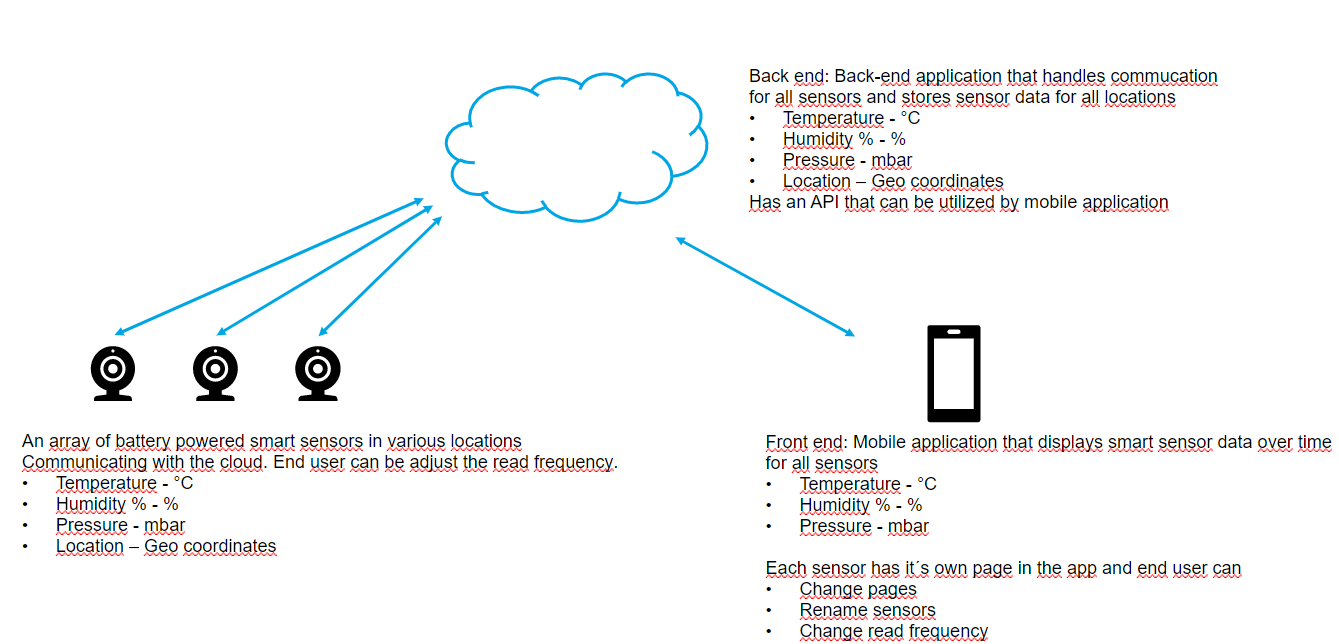
## Testing Plan



## Project Background



## Project Illustration



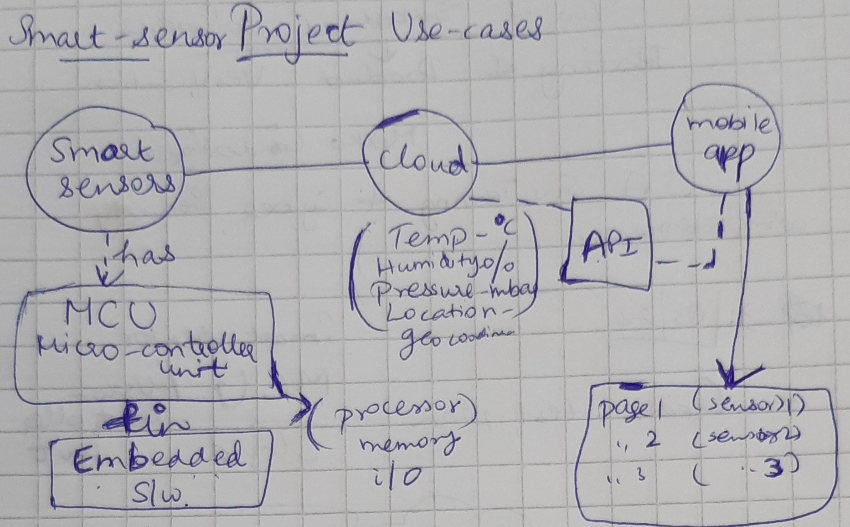
## The main diagram types in UML

structure diagrams and behavior diagrams

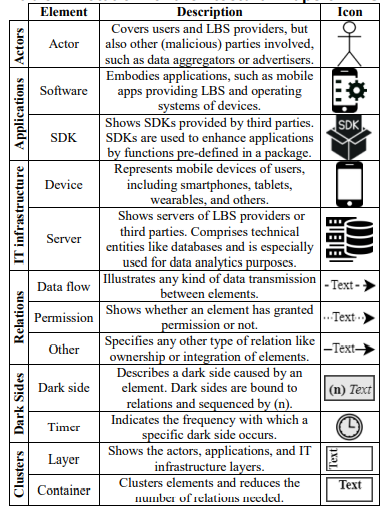
### What about the foollowings would we need?

* Structure Diagrams
  + [Class Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#ClassDiagram)
  + [Component Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#ComponentDiagram)
  + [Deployment Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#DeploymentDiagram)
  + [Object Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#ObjectDiagram)
  + [Package Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#PackageDiagram)
  + [Profile Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#ProfileDiagram)
  + [Composite Structure Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#CompStrDiagram)
* Behavioral Diagrams (could be devided into behavior and interaction)
  + [Use Case Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#UseCaseDiagram)
  + [Activity Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#ActivityDiagram)
  + [State Machine Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#StateMachDiagram)
  + [Sequence Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#SequenceDiagram)
  + [Communication Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#CommDiagram)
  + [Interaction Overview Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#IntOverDiagram)
  + [Timing Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#TimingDiagram)

## UML-design



Picture\_1 Gayathri’s use cases



Picture 2 from conference paper 2021 <https://www.researchgate.net/publication/346317687>

## Nithya´s notes

Food Processing Industries :: cause food poisoning, check food quality and safety,freshness evaluation.

y its needed :: avoid food  borne  and  water  borne  pathogens,  toxins  and  pesticide  residues  with  high specificity.

IoT ------------ Cloud---------------mobile app

Testing to be done at each module.

IoT :: Gray box testing (limited knowledge on sensor) for functionality testing

       security testing :: (include device authentication, data collection, transmission,software)

       Sensor-protocol compatibility testing: wifi,bluetooth (efficient communication and interaction between devices and servers. )

       Device-to-Cloud connectivity testing: test data capture, data transfer and data storage between the device and the cloud.

       Network performance testing: scalability,stabilty,performance,

       AUTOMATION

cloud ::

Cloud services integration testing: IoT and cloud

Cloud security testing:

Cloud migration testing:migration between device or

Cloud connectivity testing:

AUTOMATION ??

application::

Web/mobile functional testing:the application is tested on both web and mobile consoles to check whether it is working properly

End-to-end system & integration testing : The entire application is tested in a real-world scenario to ensure smooth interaction between the front-end (UI) and the back-end (database).

API/SDK testing: integration with third-party IoT devices and the ecosystem

AUTOMATION

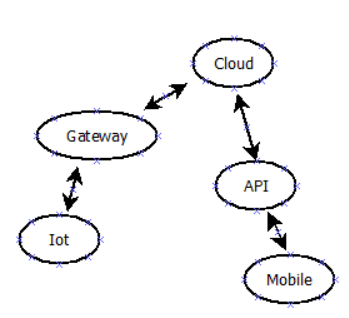
## Brainstormin 2 – new UML

IoT -------- gateway ---- Cloud---------------mobile app



Security testing

Different mobiles & browser – Jenkins + Robot Framework + IntelliIJ



## What kind of document selection we have time to produce

* UserDocument
* ChangeManagement
* ConfigurationManagement
* ProjectDocument
* Requirements
* TestPlan
* TestReport

## AccuWeather user Azure plus other MS services

Next the company moved its big data storage and processing, using services such as [Azure Blob storage](https://azure.microsoft.com/en-us/services/storage/blobs/), [Azure Data Factory](https://azure.microsoft.com/en-us/services/data-factory/), and [Azure SQL Database](https://azure.microsoft.com/en-us/services/sql-database/).

# About the links

<https://www.accuweather.com/>

<https://www.researchgate.net/publication/346317687>