SRS and Project plan

ECE493-Lab

Scope

CMS is a web application that will support managing a conference organization process. This system includes registration, paper submission, peer reviewer assignments, publishing announcements, scheduling the accepted papers. CMS is going to be a conference management system for a technical specific conference hold by the XYZ department at University of Alberta, but it should be usable and extendable for other conferences. This version of CMS excludes of accommodation facilities for the conference audience. However, it provides useful information through announcement in the webpage. Connecting to the publisher and delivering the right of authors to the publisher is one of the tasks of conference management system, which is performed manually at this time and it is out of the scope of CMS.

Users

Check it again after writing system features' scenarios

User Characteristics CMS is mainly meant to be used by the University of Alberta staff and its conference audience. However, it should be implemented in a way to allow future extensions in scaling the number and type of users. Users of the current version are:

- Public users: guest who visit the web page of CMS.
- Authorized users: registered users who are a referee, an author, or an audience who register for attending to the conference. This can be including:
  - Administrator: A university of Alberta member who mange the system.
  - Editor: This role is the same with the administrator in the current version of CMS but it can be changed in the future. Editor is in charge for managing the referee tasks and making decision about the papers.
  - Referee or reviewer: This role is an authorized member who can access to the list of assigned review tasks under her/his name.
  - Authors: Authors are corresponding authors who submit a paper to the system.

Software Requirements

- Write a scenario in software language for each business need.
- Split it to the related components
- It’s a practice

Paper Submission Feature:

4.3.3. Functional Requirements

FR10 - Request.Submission - The system shall provide users the option of submitting their manuscripts.

FR11 - Check.Submission.Fields - The system shall check if all of the fields in the form are valid (e.g., no invalid characters, no blanks).

FR12 - Check.File.Type - The system shall check if the file uploaded by the user is a PDF type document.

FR13 - Store.Paper.Submission - The system shall store all of the information in the form and the uploaded document in the database.

A

FR4 - Request.Submission - The system shall provide users the option of submitting their manuscripts. A registered user needs to log-in and provide the following information for the system:

- Name of authors, their affiliation and contact information
- Abstract
- Keywords of the paper
- Main source of the paper

When the user (author) clicks the submission button, the system shall check if all fields in the form are valid. For instance, invalid e-mail addresses, blanks, and source files which are not pdf, word, or latex should be informed to the user. Finally, this information is store in the database.

FR5- Save.Submission – The system saves information of a paper at any stage of the submission process, when author clicks the save button. System checks the paper information validity before saving them and inform the user if finds a violation.

B

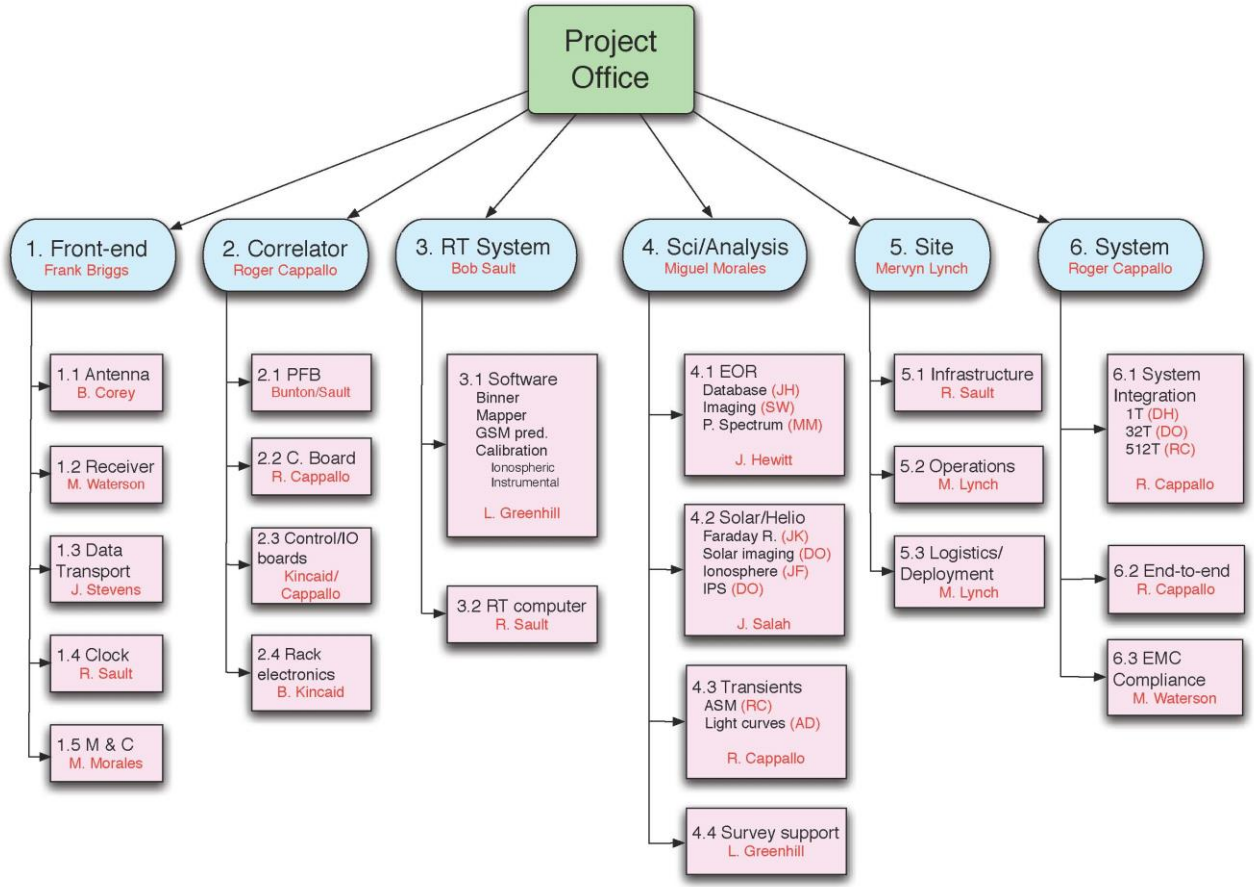
- Use a Software Language

Stakeholders

- Users
- Project manager
- Project owner
- Development team
- Suppliers
- Involved organizations
- etc.

WBS

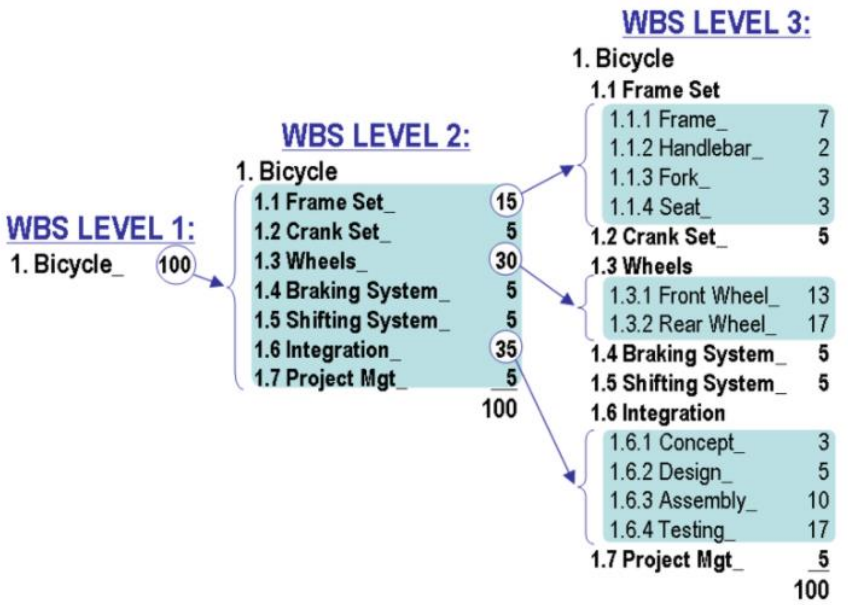
What's it look like?



WBS [PMBOK]

- Work Breakdown Structure (WBS) is usually a project management practice in which the project is break to the smaller tasks.
- A deliverable-oriented hierarchical decomposition of the work to be executed by the project team to accomplish the project objectives and create the required deliverables.
- A Work Breakdown Structure (WBS) is a hierarchical structure of things that the project will make or outcomes that it will deliver".

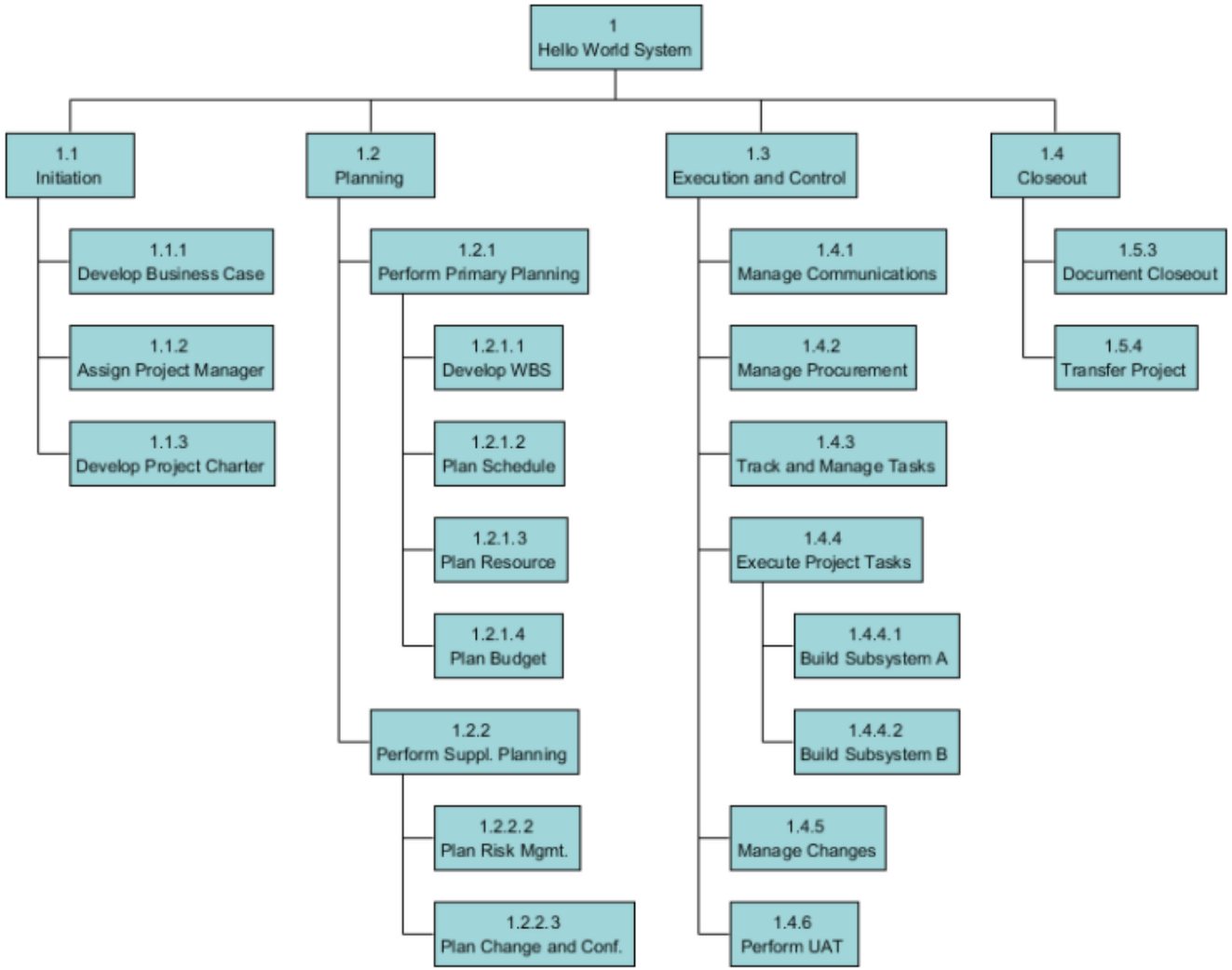
Concept of tasks when make a bicycle:



https://www.workamajig.com/blog/guide-to-work-breakdown-structures-wbs

WBS

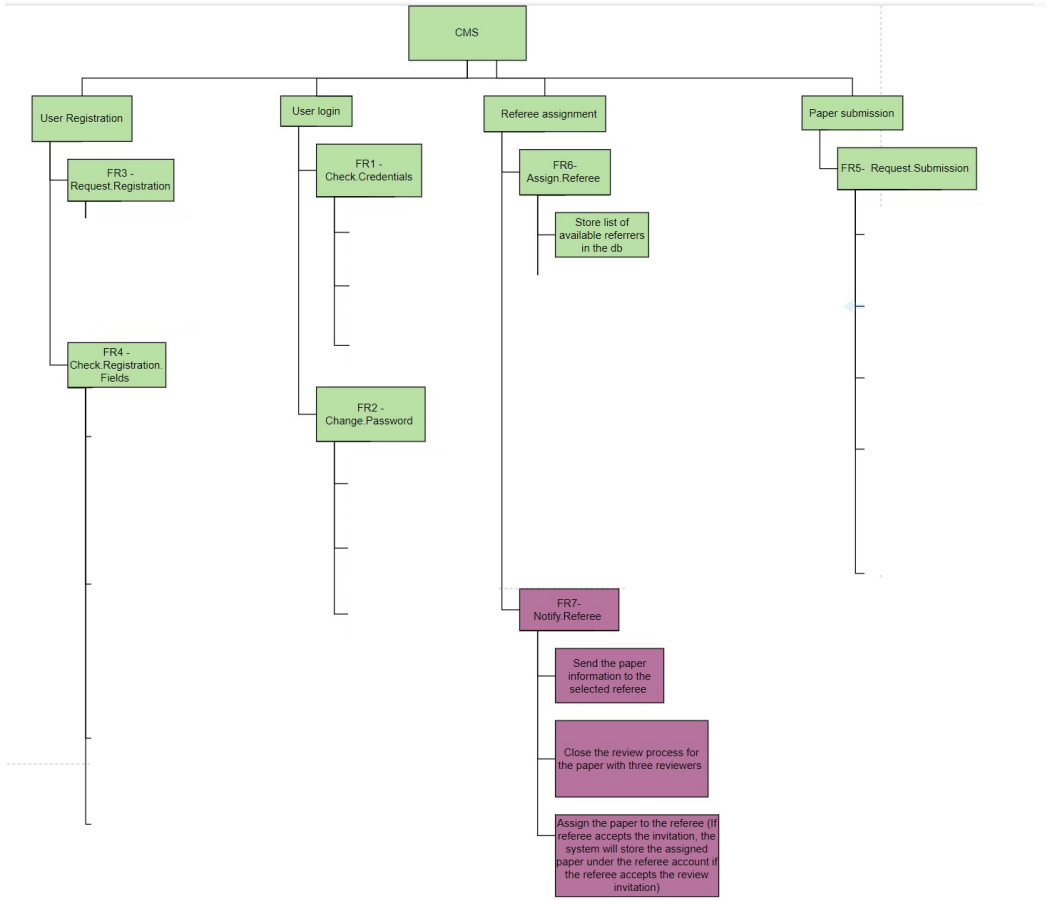
A good Example of WBS for a project.



https://www.workamajig.com/blog/guide-to-work-breakdown-structures-wbs

WBS

- In the previous example, all the project's tasks were covered in the WBS.
- WBS is usually used as a project management task.
- However, in this course, we use WBS as an analyzing tool.
    - It is going to work instead of fine-grained scenarios for each functional requirement.
    - Therefore, instead of project management tasks, use extracted tasks in WBS.
    - A partial WBS for CMS can be seen in the following:



WBS

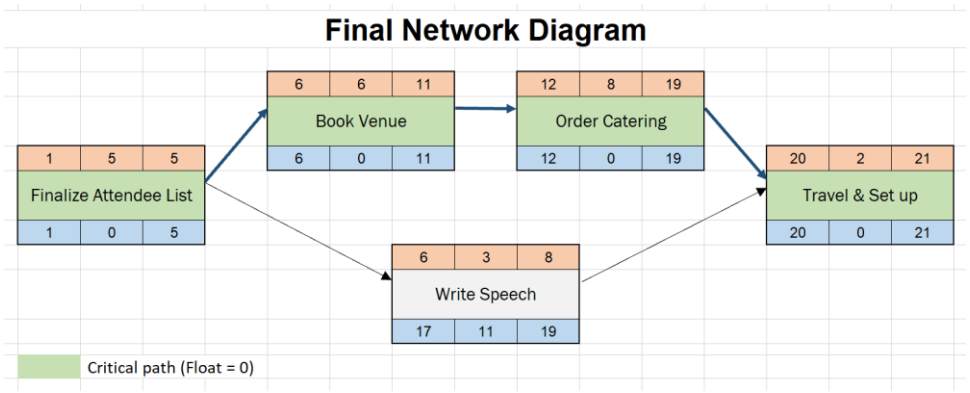
How make a WBS for this course:

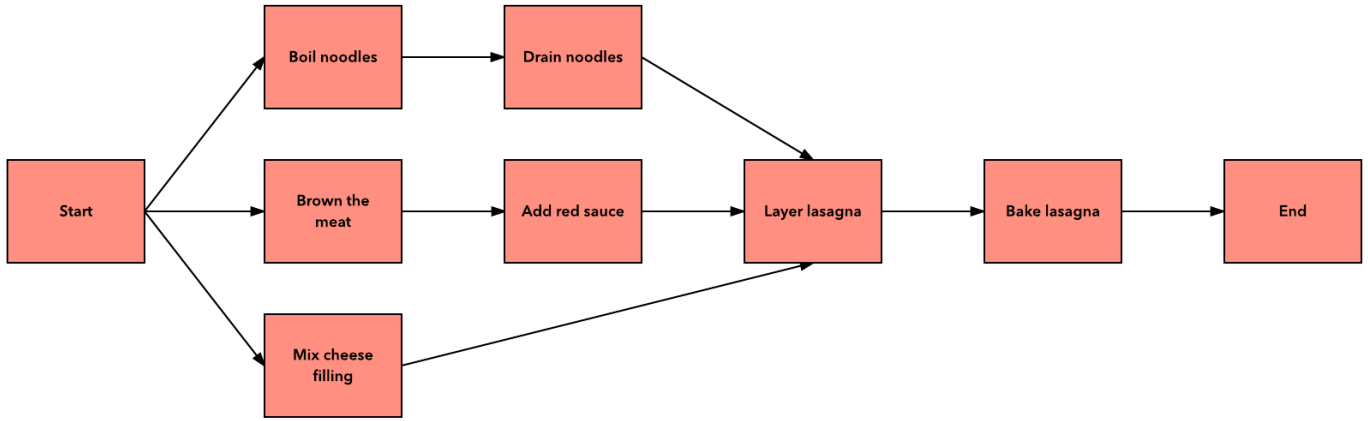
- Understand the project
- Determine functional requirements as deliverables.
- For each requirement:
  - Write (implicitly/explicitly) a scenario for the requirement
  - Extract tasks from the scenario
  - Read them and add more tasks that you should do to be able to deliver the requirement
  - (Optional) As WBS is project management tool, add all related tasks to each requirement such as planning, design, implementation, and test of each requirement (deliverable)
  - Put an ID for each task to be trackable, i.e., you can use the IDs in your project network diagram.

Marking WBS

- Check the consistency with the SRS: must include all requirements: 20%
- Logical Correctness: 10%
- UML/ notation Correctness: 5%

Network Diagram

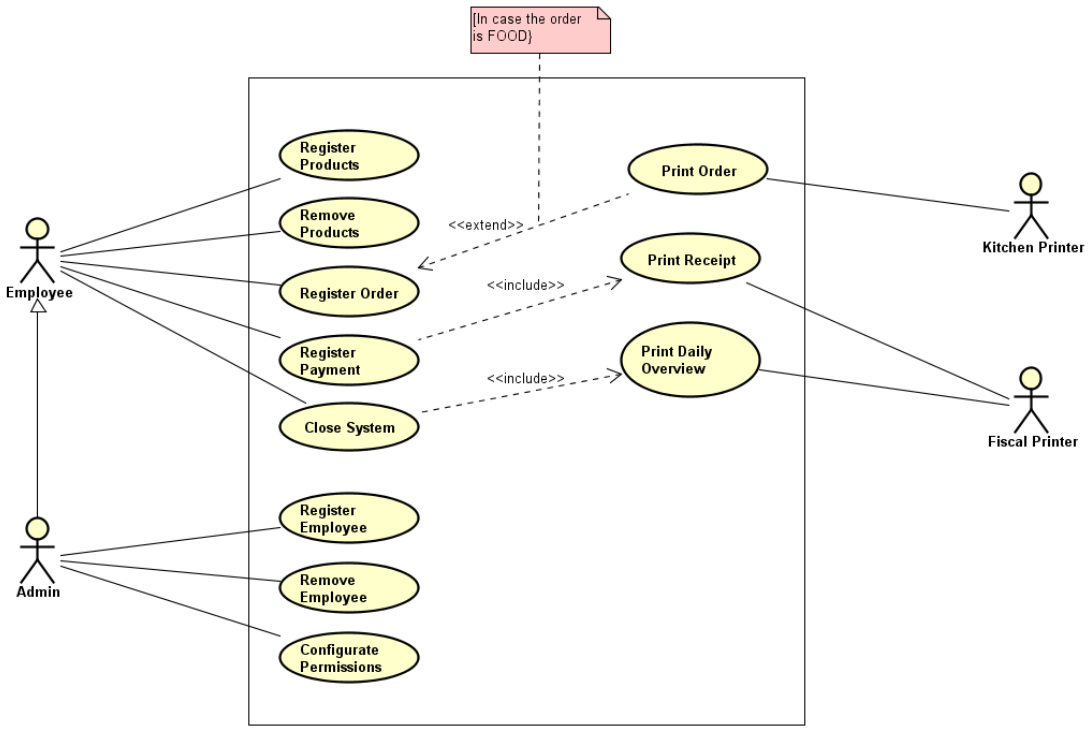


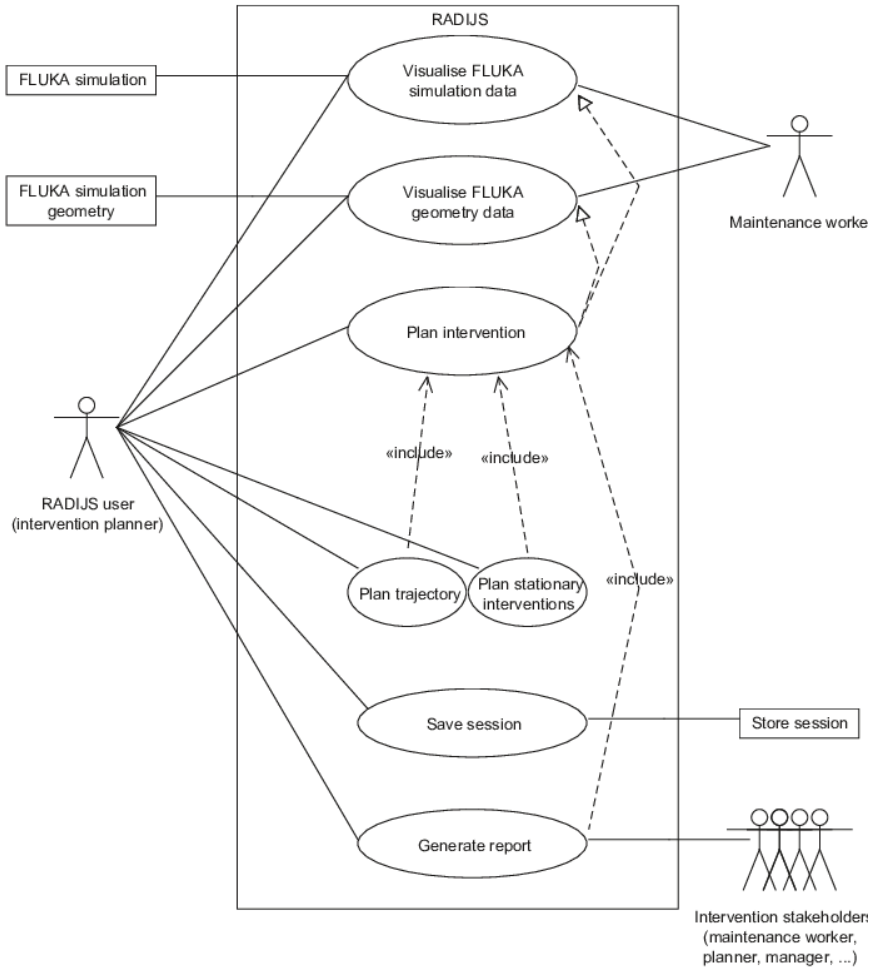


Marking Network diagram

- Check the consistency with the WBS: 10%
- Logical Correctness: 10% (planning, design, implementation, test)
- UML/ notation Correctness: 5%

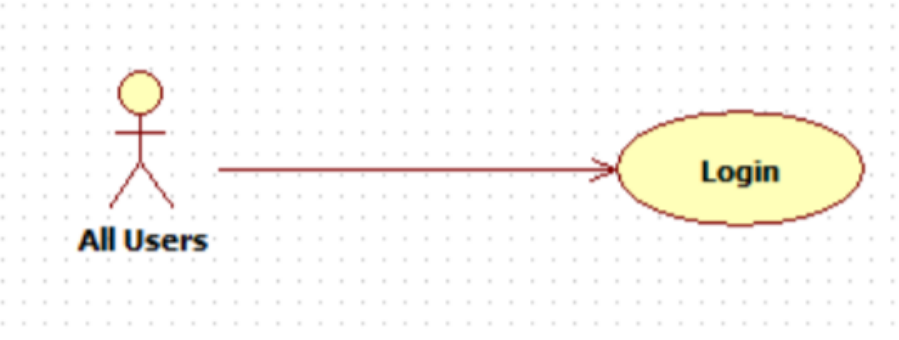
Use Case


{In case the order is FOOD}
Register Products
Remove Products
Register Order
Register Payment
Close System
Print Order
Print Receipt
Print Daily Overview
<<extend>>
<<include>>
<<include>>
Employee
Admin
Register Employee
Remove Employee
Configurate Permissions
Kitchen Printer
Fiscal Printer


RADIJS
FLUKA simulation
FLUKA simulation geometry
Visualise FLUKA simulation data
Visualise FLUKA geometry data
Plan intervention
«include»
«include»
«include»
RADIJS user (intervention planner)
Plan trajectory
Plan stationary interventions
Save session
Generate report
Maintenance worke
Store session
Intervention stakeholders (maintenance worker, planner, manager, ...)

Use Case

- Users are not necessarily same as the stakeholders
- Use cases are usually smaller than requirenets, but bigger than tasks
- Most of the time they will appear as methods in design phase



Marking:

- Check the consistency with the SRS: must include all requirements: 25%
- Logical Correctness: 10%
- UML/ notation Correctness: 5%