PROJECT PLANNING

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1: Identify the lifecycle to be followed for the execution of your project and justify why you have chosen the model. (Use Degree of certainty)(PRAJWAL ANAR -PES2UG20CS449)

We are choosing the **AGILE** model for our project
The reason for this is:

- There is constant interaction between the stakeholders, and the requirements of the software can be changed repeatedly.
- Agile allows us to better control over the project due to constant feedback, Transparency with the clients.
- Agile works in small sprints and focuses on continuous delivery.
- The agile model increases the flexibility of the project.
- This methodology works in iterations and each sprint will the better than the last one and the errors get reduced.

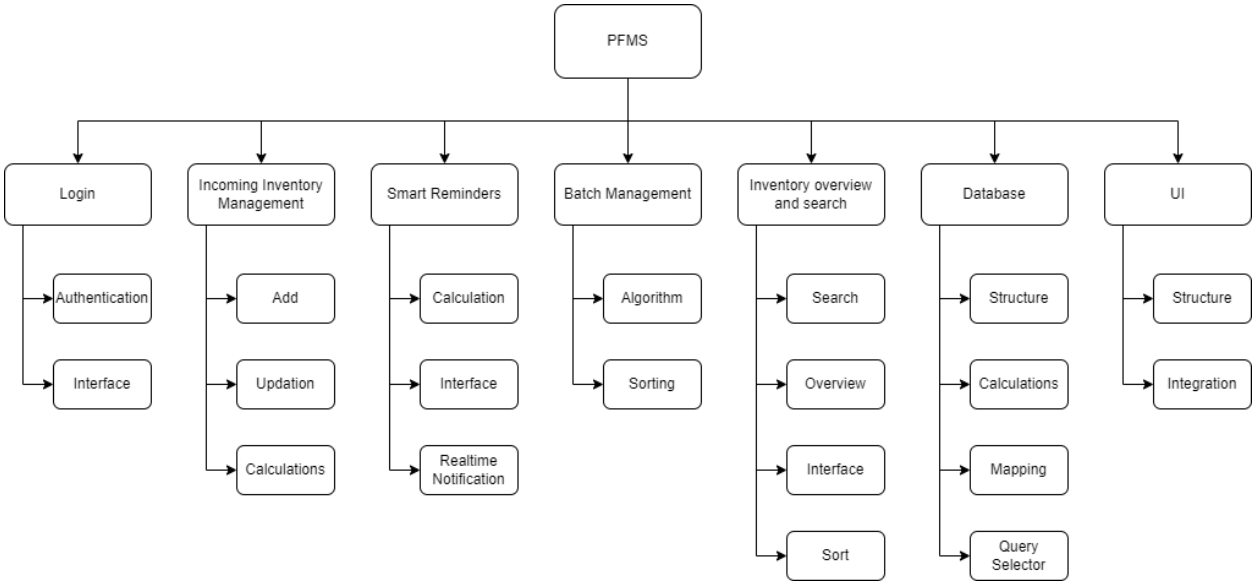
2: Identify the tools which you want to use throughout the lifecycle like the planning tool, design tool, version control, development tool, bug tracking, and testing tool. (DARSHAN M -PES2UG20CS427)

- **Planning Tool:** Jira Software
- **Design Tool:** Jira Software
- **Version Control:** GitHub
- **Development Tool:** VS Code
- **Bug Tracking:** VS Code
- **Testing Tool:** VS Code

3: Determine all the deliverables and categorize them as reuse/build components and justify the same. (DARSHAN M - PES2UG20CS427)

- **Login:** Build components
- **Incoming inventory management:** Build components
- **Smart reminders:** Build components
- **Batch Management:** Build components
- **Inventory Overview and Search:** Build components

4: Create a WBS for the entire functionalities in detail. (ADITHYA T - PES2UG20CS413)



5: Do a rough estimate of the effort required to accomplish each task in terms of person-months.(Use BASIC COCOMO) (PRAJWAL ANAR - PES2UG20CS449)
We choose the ORGANIC model
Team size: 4 people
Lines of code : 3-4 Kloc

As we have chosen the organic model
a= 2.4
b= 1.05
c= 2.4
d=0.38
kloc= we will consider the average value i.e 3.5 Kloc

Effort =a(Kloc)^{b}

=2.4(3.5)$^{1.05}$

=9.3156 person month

Development Time=c(Effort)^{d}

=2.4(9.3156)$^{0.38}$

=5.6041 month

Person required=Effort/Time

=9.3156/5.6041

=1.66 persons

6: Create the Gantt Chart for scheduling using any tool(S PUNEETH RAJ - PES2UG20CS454)