Project Plan Document

Teams Details

Member 1

- Name : P K Navin Shrinivas
- SRN : PES2UG20CS237

Member 2

- Name: Mukund Deepak
- SRN: PES2UG20CS206

Member 3

- Name : Mohamed Ayaan
- SRN : PES2UG20CS200

Member 4

- Name : Nandan H
- SRN : PES2UG20CS214

Project Plan

Identifying project plan

As this is short timed project with a small team and changing requirements, We have opted for the agile/scrum methologies.

SCRUM allows our team to be as dynamic as possible! We are constantly adding features and issues alike. SCRUM helps us handles these easily.

Tools and Libraries

We intend to use industry standard tools :

- project management : JIRA, notion, discord.
- VCS : git and github.
- Rust tool chain : cargo, clippy, rustpls.

- GRPC : protoc, tonic, prost.
- Async runtime : tokio.
- Python toolchain : pyenv.
- Testing : postman, selenium (not decided yet).

Deliverables

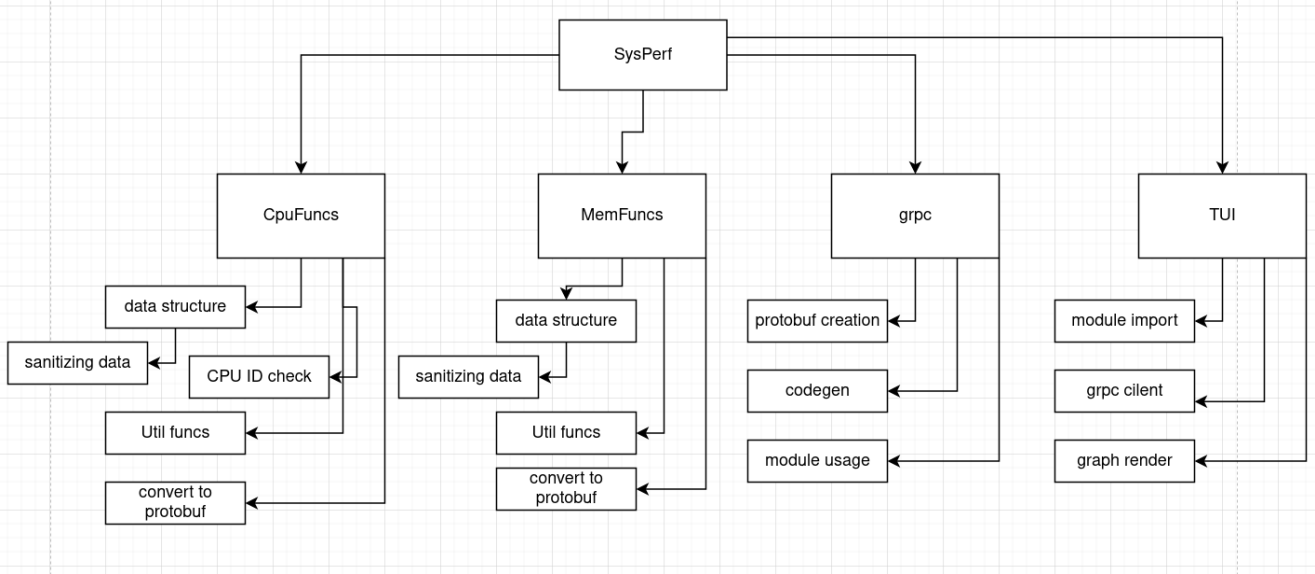
As this is not a product facing porject and is instead a tool facing project, we have one major deliverable. That being the entire tool packaged in famous linux package managers.

But we also have a deliverable of backend and frontend themselves as we are loosely coupling them!

Work Break Down[WBS] structure

A brief WBS amongst our team members :

- Team member1 : Handles CPU and GRPC
- Team member2 : Handles Memory and Async cohenrence in backend
- Team member 3 : Handles Disk usage and GRPC client
- Team member 4 : Handles TUI



Effort Estimates

> Note : The kloc estimates here are **extrememely** rough.

Considering our project type to be organic, and about 1.5 kloc. We get :

Total Effort = 2.5*(1.5)^1.05 = 3.8

Time = 2.5*(3.8)^0.38 = 4.1 months

With a team of 4 people, we are looking at lesser than 4 weeks of completion time. This ties in exactly with our 1 sprint size of 4 weeks!

Gnatt Chart

We generated our gnatt chart using JIRA workspaces by atlassian.  image

The doc file [SysPerf.doc] for the same has been attached along with the same submission [As requested in the JIRA demo file] .