

# Project Plan Document

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## Teams Details

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### 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

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### Identifying project plan

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

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 project 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 coherence 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 :

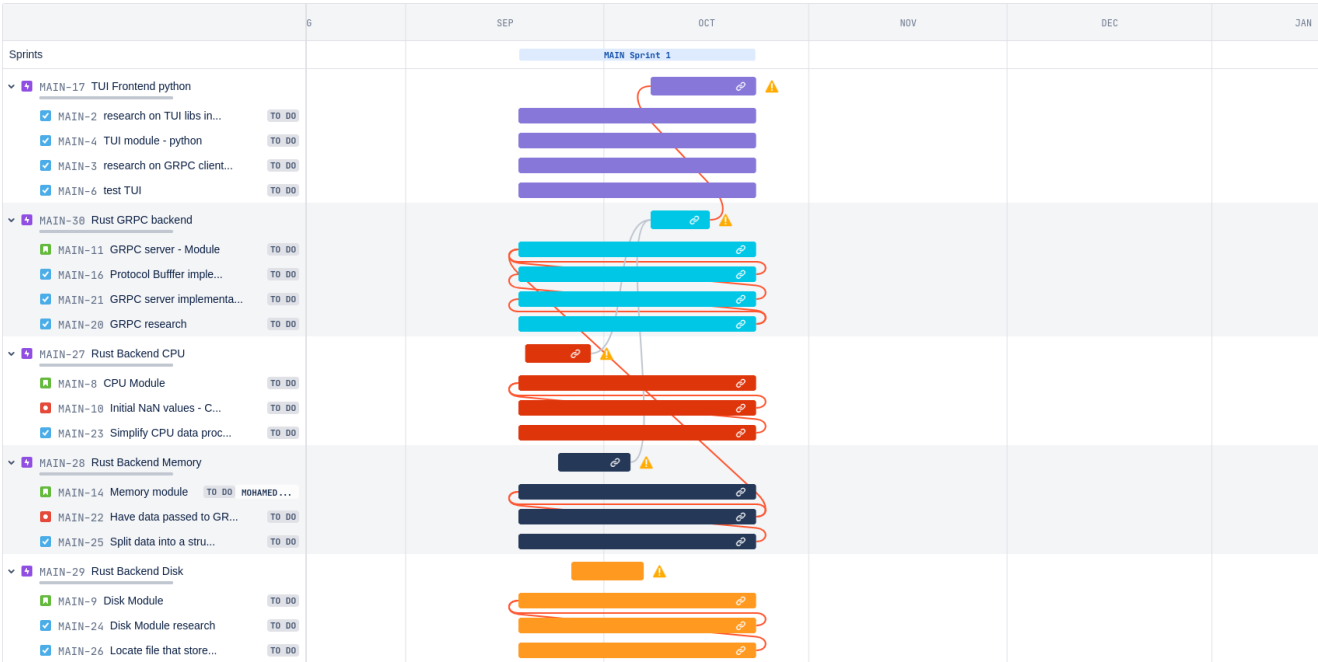
$$\text{Total Effort} = 2.5 * (1.5)^{1.05} = 3.8$$

$$\text{Time} = 2.5 * (3.8)^{0.38} = 4.1 \text{ months}$$

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.



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