

Team structures: Software Project Management

Most software is too large or complex to be developed by an Individual:- **a team is born!**



Nature of Task

1. **Shared** e.g:- Strawberry picking

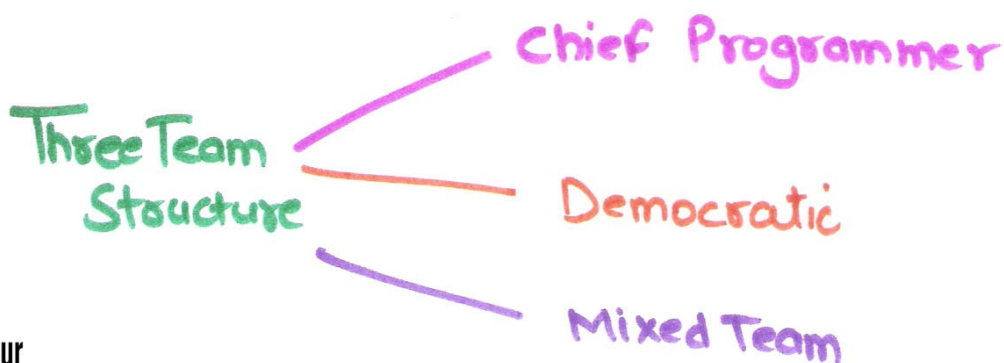
It can be done in parallel. four people on job gets it done in 1/4 the time

2. **Individual**, eg:- Pregnancy

Can only be done in serial, A woman cannot give birth to 9 babies in 9 months but 9 women can give birth to 9 babies in 9 months.

3. **Combination**, e.g. Software implementation

Coding can be done separately but requires communication for integration.



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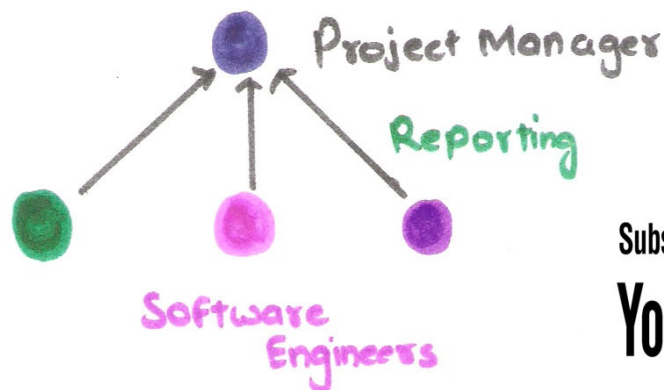
Chief Programmer Team



Senior Engineers provides the technical leadership and is designated as the **Chief programmer**.

Role of chief Programmer

- Partition the Task into smaller Activities.
- Assign Activities to Team Members.
- Verifies and Develop i.e integrate the Developed product by Team.



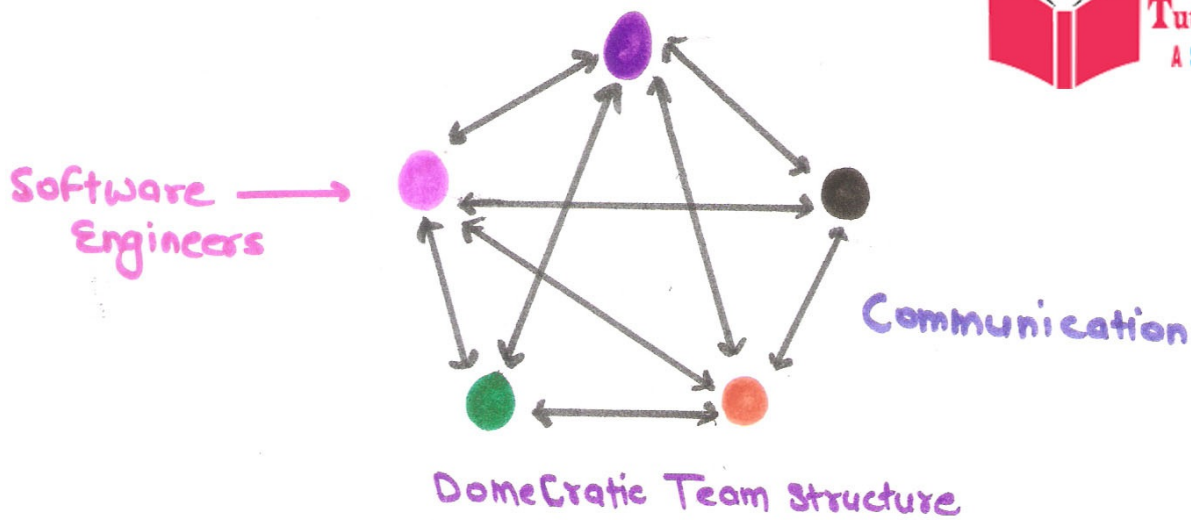
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More Authority and Responsibility on Chief Programmer and this structure is quite good for simple project.

Domestic Team Structure

In this a manager provides the administrative leadership, At different times, different members of the group provide technical leadership.

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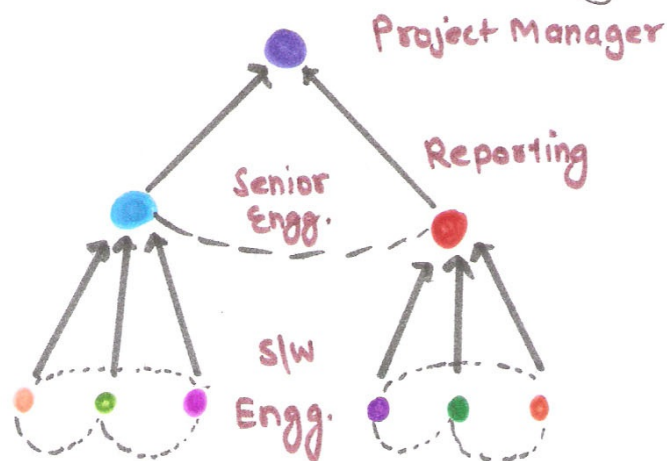
It suffers from less man-power turnover.

Democratic team structure suits to less understood problems, since a group of engineers can invent better solutions than a single individual as in a chief programmer team.

It encourages egoless programming as programmers can share and review one another's work.

Mixed Control Team Structure

It incorporates both hierarchical reporting and Democratic setup



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The democratic arrangement at the Senior Engineers level is used to decompose the problem into small parts.

Each democratic setup at the programmer level attempts solution to a single part.

That's why this team structure is eminently suited to handle large and complex programs.



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