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Synchronize & Stabilize Teams

- ★ The idea behind the synchronize & stabilize model is → Continually synchronize what people are doing as individuals & as members of parallel teams, & periodically stabilize the product in increments as a project proceeds, rather than once at the end of a project.
- ★ Microsoft has been using this approach to software development & team organization since the late 1980's on many of its popular products, including Office, Publisher, windows 95/98 & ... has achieved great success as a result.

Synchronize:

* They put the partially completed components together & test & debug the resulting product.

Stabilization:

* Any remaining faults are fixed.

* The build is now frozen.

Steps:-

At the end of each day all the teams

Synchronize

* They put the partially completed components together. and

* Test & debug the resulting product.

Stabilization is performed At end of each build

* Any remaining faults are fixed

* the build is now frozen.

(No further changes will be made to the specification document)

Synchronize & Stabilize Teams

* Microsoft, Inc is the world largest manufacturer of COTS Packages.

- These are generally large scale Products.

Examples

→ Windows 2000 consists of more than 30 millions of lines of code.

→ Developed by over 3000 programmers & testers.

* Team organization is a vital aspect of the successful construction of Product of this size.

* Microsoft COTS packages are developed using the synchronize-and-stabilize life-cycle model.

→ This model has feature in common with the Unified Process.

→ In Particular, incrementation is heavily used.

The requirements phase is conducted by:

* Interviewing numerous potential customers for the COTS package & .

* A Specification document is now drawn up that reflects the customer responses to the interviews.

Next, the Product is designed & implemented

* The work is divided into three or four increments .

* The first build consists of the most important features.

→ once the first build is complete, the second build is started,

→ second build consists of the next most important features & so on.

The repeated synchronization step ensures that the various components always work together.

→ the developers also obtain early insights into the operation of the product.

→ they can modify the requirements if necessary during the course of a build.

The success of the life-cycle model is largely a consequence of the way the teams are organized.

* Each build is constructed by a number of small teams.

- led by a program manager &
- Consisting of 3 to 8 developers together with 3 to 8 testers who work one to one with developers.

The teams is provided the specification of their overall task.

★ The team members are given the freedom to design & implement their portion of the task as they wish.

The reason this does not rapidly devolve into chaos is:

- The synchronization step performed each day.
- The partially completed components are tested & debugged on a daily basis.

The strength of this approach is that

→ Individual programmers are encouraged to be creative and innovative, but.

→ The daily synchronization step ensures that the hundreds of developers work together toward a common goal.

Microsoft developers must adhere strictly to the time laid down to enter their code into the product database for that day's synchronization.

* This has been likened to telling children that they can do what they like all day but have to be in bed by 9 p.m.

If a developer's code prevents the product from being compiled for the day's synchronization.

At Use of many of the features of the model in other Organization could lead to process improvement.

At On the other hand, it has been suggested that the synchronize and stabilize model is simply a way of allowing a group of hackers to develop large products...

Thank you Sir! happy job

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