

Software project management

Change Management

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Change management

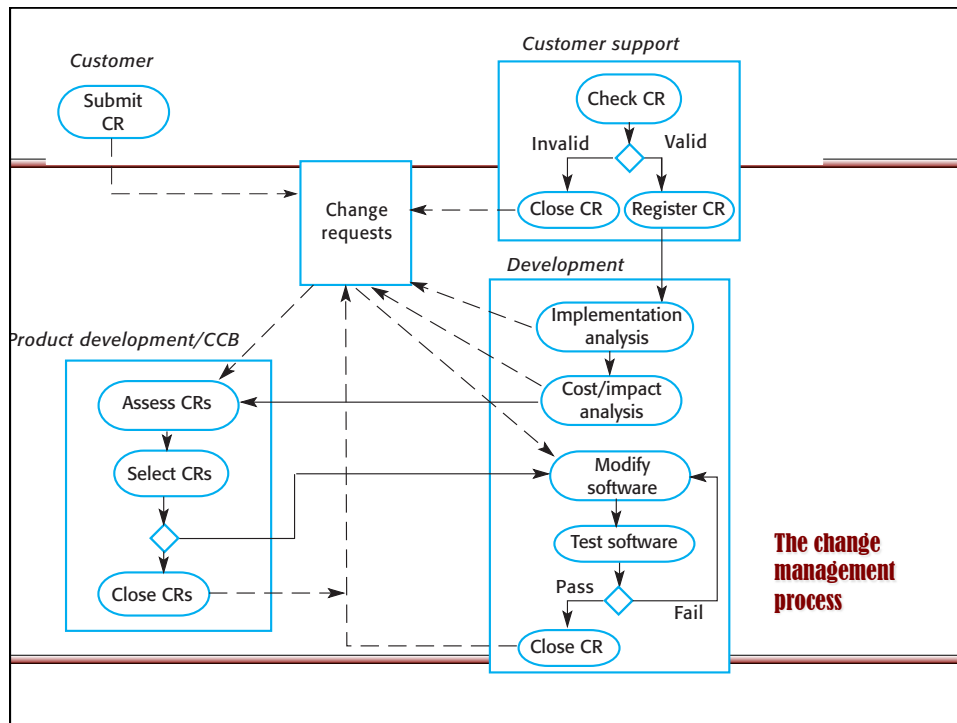
Change management

Organizational needs and requirements change during the lifetime of a system, bugs have to be repaired and systems have to adapt to changes in their environment.

Change management

Change management is intended to ensure that system evolution is a managed process and that priority is given to the most urgent and cost-effective changes.

The change management process is concerned with analyzing the costs and benefits of proposed changes, approving those changes that are worthwhile and tracking which components in the system have been changed.



A partially completed change request form (a)

Change Request Form

Project: SICSA/AppProcessing

Number: 23/02

Change requester: I. Sommerville

Date: 20/07/12

Requested change: The status of applicants (rejected, accepted, etc.) should be shown visually in the displayed list of applicants.

Change analyzer: R. Looek

Analysis date: 25/07/12

Components affected: ApplicantListDisplay, StatusUpdater

Associated components: StudentDatabase

A partially completed change request form (b)

Change Request Form

Change assessment: Relatively simple to implement by changing the display color according to status. A table must be added to relate status to colors. No changes to associated components are required.

Change priority: Medium

Change implementation:

Estimated effort: 2 hours

Date to SGA app. team: 28/07/12

CCB decision date: 30/07/12

Decision: Accept change. Change to be implemented in Release 1.2

Change implementor: **Date of change:**

Date submitted to QA: **QA decision:**

Date submitted to CM:

Comments:

Factors in change analysis

The consequences of not making the change

The benefits of the change

The number of users affected by the change

The costs of making the change

The product release cycle

Derivation history

```
// SICSA project (XEP 6087)
//
// APP-SYSTEM/AUTH/RBAC/USER_ROLE
//
// Object: currentRole
// Author: R. Looek
// Creation date: 13/11/2012
//
// © St Andrews University 2012
//
// Modification history
// Version Modifier Date Change Reason
// 1.0 J. Jones 11/11/2009 Add header Submitted to CM
// 1.1 R. Looek 13/11/2012 New field Change req. R07/02
```

Change management and agile methods

In some agile methods, customers are directly involved in change management.

The propose a change to the requirements and work with the team to assess its impact and decide whether the change should take priority over the features planned for the next increment of the system.

Change management and agile methods

Changes to improve the software improvement are decided by the programmers working on the system.

Refactoring, where the software is continually improved, is not seen as an overhead but as a necessary part of the development process.

The end!

Q & A