

LABORATORIO DI SISTEMI SOFTWARE

Introduction

Remember our motto:

there is no code without a project, no project without problem analysis and no problem without requirements.

Requirements

COPY here the text given by the customer.

Requirement analysis

GOAL: *i)* clarify the meaning of the *names* and of the *verbs* included in the requirement text given by the customer. *ii)* define a first working prototype (and a first set of **functional TestPlan**) as a formal model of the requirements.

Problem analysis

GOAL: *i)* define the **logical architecture** of the system (hopefully as an executable model) *ii)* measure the **abstraction gap** and give a **quantitative measure of the effort/resources** necessary to build the system *iii)* refine the set of **functional TestPlan**, *iv)* define a (first) **product backlog**.

WARNING: expressions like 'we have chosen to ...', 'I decided ...', etc. are **forbidden** here. Rather, this section should include sentences like '**this (aspect of the) problem implies that ...**' or '**the usage of this (legacy) component requires that ...**', etc.

Test plans

GOAL: give a formal description (for example, by using **JUnit**) of the **functional TestPlans**, with reference to the **logical architecture** of the system .

Project

GOAL: define the concrete architecture of the system and the behavior of each component .

Testing

GOAL: complete the **functional TestPlans** according to the project code and execute them.

Deployment

GOAL: prepare a software application to run and operate in a specific environment. It involves installation, configuration, testing and making changes to optimize the performance of the software. It can either be carried out manually or (hopefully) through automated systems.

Maintenance

GOAL: modify the software product after delivery to correct faults, to improve performance or other attributes. A common perception of maintenance is that it merely involves fixing defects. However, one study indicated that over 80% of maintenance effort is used for non-corrective actions.



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