

Vision and Scope Document

WIDE (Well Integrated Development Environment)

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This is the Vision and Scope document for the wide project.

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1 Problem statement

1.1 Project background

We programmers often find ourselves having to use specific programs depending on the kind of development we have to do. The result is that we can not focus on writing code, but we must also learn how to use the program.

There is no complete development system. Some offer great features, but there is always a need to open some other programs to do simple things like transferring files, seeing results, debugging, and so on.

The screen is not always optimized, but is split between different components, even when they are not used.

When writing code for many hours, moving our hand from the keyboard to the mouse and then putting it back on the keyboard, many times, it gets tiring. Almost all development systems design the graphics by thinking of the mouse.

At this point, if we want a system suitable for all kinds of programming, optimized in space, fast, and that helps us in all the tasks. . . we have to create it!

1.2 Stakeholders

This project is free, so interested parties are all people in the world, especially programmers.

1.3 Users

The users of this project will be programmers. We can identify the following categories: *Application developers*, *System developers*, *Game developers* and *Web developers*.

1.4 Risks

The main risk of this project is the failure to support all kinds of programming, and the tasks related to each. Even if we do not develop everything right away, we have to set up the system so that it supports all the common features of a development system and prepare it so that it's easy to add new ones.

1.5 Assumptions

There are few assumptions underlying this system:

- The operating system is UNIX compatible.
- The operating system provides a window system.
- The device is equipped with a qwerty keyboard.
- The device is equipped with a screen.

2 Vision of the solution

2.1 Vision statement

The purpose of this project is to create a complete development system.

The system will support programmers in all tasks, in any development category.

The screen space will be handled in contexts. For each context only the affected windows will be displayed.

2.2 List of features

The main features of this system are:

Context-based window management

Program windows are handled in contexts. When changing context, only the windows belonging to this context will be visible.

Project management

With this system we can create specific projects for the work we have to do.

Navigation

The system offers a navigation program. From this program we can scan files and work on them.

Editor

The system provides a program for editing text or binary files. The editor supports all the most common features, and the most important file types.

Source navigation

The system allows us to surf the sources intelligently.

Assisted compilation

With this system we can compile our files without commands. Compilation will be managed based on the language and type of project.

Assisted execution

With this system we can run our program without using commands, even if the program must be run on another machine.

Assisted debug

Debugging can be performed without using commands. We will support debugging local or remote programs.

2.3 Features that will not be developed

We will not support all languages, but we will offer an interface to give programmers the ability to add them.

We will not support all the tools, but we will offer an interface to use them.

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