Debugging: The task to identify and remove errors from software application and is more than just printing out values in your code.

Debugging Tools

Defugging tods provide important fundionalities that consolelog isn't able to provide

Debugging in Nobe: is application can be done using voices

a. Core - Node : je dehuggen

b. Node Inspector

c. Builtin debugger in IDEs

a. Core Node is debugger.

. Nodejs perouides built-in non-graphic debugging tool that can be used on all platforms · It provides différent commands for debugging

Node js application.

Example

Van gs = require (gs');

Is readfile ('test-tat', 'Ut fs', function (err, data) {

debugger;

it (err) thow ever?

· If we want to check the date" parameter write debugger insider callback function.

debug application command used is: no de debugappis

Important debugging commands. stop at the next statement. continue execute and stop at the (1) neset -(97) cont debugger gratement if any - step in function. (ii) step

- Step out of Junction (°1V) out

- Add the expression or variable into (V) watch watch.

- See the value of all expressions (Vi) watcher and variables added into watch

- Pause running code. (Vii) Pause

2. Node Inspector. * Node inspector is crui based debugger.

Gep Example:

Vous les = require ('fs'); Is read file ('text. tod', 'Utfs', yundion (err, date)

de bugger; it (Ger) Aprop ere. console log (date); 3),

3. The Debugger keywood stops the execution of - The debugger keywood stops the execution of java soupt, and calls (if available) the debugging function.

This has the same function as setting a breakpoint in the debugger.

The debugging is available, the debugger of the thirding of the thirding stop executing before it executs the thirding

The model-view-controller pattern of designing software Calso known as MVC) was one of the first and itectual design-patterns based on the responsibilities of its components constructs. Trygue Reenskaug components constructs. Trygue Reenskaug ? nhaduced the MVC while visiting xerox parac (the ? nhaduced the MVC while visiting xerox parac (the same research yaithty that pionared overything from Guis to laser printers in the 1970s.

MVC was revolutionary then and is still a key concept when discussing how to create a new software. When wing MVC pattern, you can lay out the software to any problem you expect to solve with the software you intend to build the 3 components included by name in the pattern are:

The model, which describe the behaviour of the application regarding data, logic and rules.

The view which includes and Pinformation that the application may output and the controller, which accepts and translates input.

Note that the model, which is the core components on which you will wind up focussing, is independent of any user interface you are planning to create eventually.