Course Plan JV-109

JProfiler

Nagarro University

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About the Course

In any business application, we face many common issues like thread deadlocks, memory leaks, high memory usage, etc. We can analyze these problems by using a profiling tool. When we profile, we need the most powerful tool we can get. At the same time, we do not want to spend too much time learning how to use the tool. JProfiler is just that: simple and powerful at the same time. JProfiler helps to find performance bottlenecks, pin down memory leaks and resolve threading issues.

The aim of this course is to train architects and aspiring architects in the usage of JProfiler in real-life business applications through the use of the course material, online trainings, discussions and assignments. The expected output of this course is a working knowledge and expertise in JProfiler for all Java Architecture group members.

Eligibility Criteria

This course is mandatory for people who are part of Java Architecture Group and are working as MAG, SMAG and TA.

Duration

The course will be carried out for a total of six weeks. Please refer to the course pathway for more details on this.

Credits

This course holds 4 credits. Individuals who have submitted their assignments and passed the final test will be awarded these credits to their university credit account for the year. To know why you need to earn credits, refer "University policy document".

Course Content

The course will be carried out using the course material which has been provided. Also some links have been provided. Patterns with reading pathway, assignments and discussion classes to discuss how to implement the assignments. There will be a final exam at the end of the course that will be required to be cleared by everyone for whom this course is mandatory. The credits will be given only when you clear the exam and submit your assignments.

Online Trainings

A workshop will be conducted for the same.

Text Books

The textbook that will be followed for this course is:

"jprofiler7 help.pdf"

Software Requirements

For working on the JProfiler assignments, following is required:

- MySQL 5.0 or above
- jprofiler-webapp-installer for the web server assignment

Assignments

The JProfiler course includes total of 5 assignments to be done throughout the duration of the course. The assignments are required to be completed the same week. They can be done during the week or on the weekends (in case enough time is not available during the week).

Weekly assignments will be required to be submitted on the following Monday. An article will be posted on university blog (http://university.ggn.nagarro.com/blog) on how to submit the assignment. The assignments should be done on the individual's machine.

The University expects complete integrity from Nagarro-ites. It is expected that all the assignments will be done by the individual and in NO case be copied from another.

Assignments submission is compulsory for all.

Interviews

Personal or group interviews may be conducted by the University during or after the course to test the knowledge of the participants. The assessment in the interview may affect the final awarding of the credits. As a result of the assessment, the participant may be asked to reappear for tests in order to gain credits.

Discussion Forum

Nagarro University will provide a discussion forum at university website (http://university.ggn.nagarro.com) for discussing the course assignments and clarifying doubts. These questions will be answered by either others who are taking trainings or by university moderators.

University Blog

Nagarro University blog will provide latest information about the courses along with execution details like the schedule of assignment discussions, final test date, assignment description and changes etc. The university blog is available at the university website (http://university.ggn.nagarro.com/blog).

Other supplement material like the Design Pattern articles published by DAMG should also be used for enhancing the knowledge.

Final Test

The final test for the course will be held at the end of the course. The test will be taken online using the test client which is integrated with the university website. Credits will be awarded only if the individual clears the final test.

Re-test

The tests will be conducted again for those who failed to clear it in the first attempt. Please note that reduced credits may be awarded in case of multiple failed attempts.